



EVALUATION REPORT

FLORIDA BUILDING CODE, 8TH EDITION (2023)

Manufacturer: GENFLEX ROOFING SYSTEMS
A Division of Holcim Solutions and Products US, LLC
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Nashville, TN 37214
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Issued June 24, 2024

Manufacturing Plants: Tuscumbia, AL
Wellford, SC

Quality Assurance: UL LLC (QUA9625)

SCOPE

Category: Roofing
Subcategory: Single Ply Roof System
Code Edition: Florida Building Code, 8th Edition (2023) including High-Velocity Hurricane Zones (HVHZ)
Code Sections: 1504.3.1, 1504.6, 1504.7, 1507.2.4, 1507.1, 1507.12, 1515.1.1, 1515.1.4, 1515.2.4, 1523.1.1, 1523.6.2
Properties: Wind Resistance, Impact Resistance, Physical Properties

PRODUCT DESCRIPTION

Products	Specification	Description
GenFlex EZ TPO	ASTM D 6878 TAS 110	45-mil, 60-mil, or 80-mil thick thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester weft-inserted reinforcement
GenFlex EZ TPO Peel and Stick HW (HVHZ ONLY)	TAS 110	60-mil thick self-adhered thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester weft-inserted reinforcement
GenFlex EZ Fleece Backed TPO 45 mil	ASTM D 6878 TAS 110	45-mil thick thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester weft-inserted reinforcement and 8 oz. non-woven polyester fleece backing
GenFlex EZ Fleece Backed TPO 60 mil	ASTM D 6878 TAS 110	60-mil thick thermoplastic polyolefin, heat-weldable, single-ply roof membrane with polyester weft-inserted reinforcement and 8 oz. non-woven polyester fleece backing
GenFlex EZ Fleece Backed TPO 80 mil	ASTM D 6878 TAS 110	80-mil thick thermoplastic polyolefin, heat-weldable, single ply roof membrane with polyester weft-inserted reinforcement and 8 oz. non-woven polyester fleece backing

REFERENCES

<u>Entity</u>	<u>Report No.</u>	<u>Standard (Year)</u>
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 02-002	TAS 114(J) (2011 ¹)
Atlantic & Caribbean Roof Consulting (TST4671)	ACRC 05-002	TAS 114(J) (2011 ¹)
FM Approvals (TST1867)	3001925	FM 4470 (2016)
FM Approvals (TST1867)	3004249	FM 4470 (2016)
FM Approvals (TST1867)	3017120	FM 4470 (2016)
FM Approvals (TST1867)	3030650	FM 4470 (2016)
FM Approvals (TST1867)	3033218	FM 4470 (2016)
FM Approvals (TST1867)	3035560	FM 4470 (2016)
FM Approvals (TST1867)	3036747	FM 4470 (2016)
FM Approvals (TST1867)	3041949	FM 4474 (2011); FM 4470 (2016)
FM Approvals (TST1867)	3042666	FM 4470 (2016)
FM Approvals (TST1867)	3044047	FM 4470 (2016)
FM Approvals (TST1867)	3047398	FM 4474 (2011)
FM Approvals (TST1867)	3047700	FM 4470 (2016)
FM Approvals (TST1867)	3046870	FM 4474 (2011); FM 4470 (2016)
FM Approvals (TST1867)	797-08937-267	FM 4470 (2016)
FM Approvals (TST1867)	3050535	FM 4470 (2016)
FM Approvals (TST1867)	3051380	FM 4474 (2011); FM 4470 (2016)
FM Approvals (TST1867)	3052525	FM 4474 (2011); FM 4470 (2016)
FM Approvals (TST1867)	3053933	FM 4470 (2016)
FM Approvals (TST1867)	3054114	FM 4470 (2016)
FM Approvals (TST1867)	3055167	FM 4470 (2016)
FM Approvals (TST1867)	3055227	FM 4470 (2016)
FM Approvals (TST1867)	3055491	FM 4470 (2016)
FM Approvals (TST1867)	3060274	FM 4470 (2016)
FM Approvals (TST1867)	3060621	FM 4470 (2016)
FM Approvals (TST1867)	3061218	FM 4470 (2016)
FM Approvals (TST1867)	3062305	FM 4470 (2016)
FM Approvals (TST1867)	797-07749-267	FM 4470 (2016)
FM Approvals (TST1867)	PR452965	FM 4470 (2016)
FM Approvals (TST1867)	RR205572	FM 4470 (2016)
FM Approvals (TST1867)	RR207314	FM 4470 (2016)
FM Approvals (TST1867)	RR207553	FM 4470 (2016)
FM Approvals (TST1867)	3061875	FM 4470 (2016)
FM Approvals (TST1867)	3061602	FM 4470 (2016)
Nemo Etc LLC (TST6049)	4S-FBP-18001.09.18	ASTM D6878 (2021)
Nemo Etc LLC (TST6049)	4r-FBP-20-SSTHP-01.A	ASTM D6878 (2021)
PRI Construction Materials Technologies (TST5878)	FBP-054-02-02	FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	FBP-054-02-04	FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	FBP-054-02-05	FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	FBP-065-02-01	TAS 114(J) (2011); FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	FBP-066-02-01	TAS 114(J) (2011); FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	FBP-069-02-01	FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	FBP-070-02-01	FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	FBP-085-02-01	FM 4474 (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-086-02-01	FM 4474 (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-094-02-01	TAS 110 (2000)
PRI Construction Materials Technologies (TST5878)	FBP-119-02-01	FM 4474(B) (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-120-02-01	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-122-02-01	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-125-02-01	FM 4474(C) (2011); TAS 114(C) (1995)
PRI Construction Materials Technologies (TST5878)	FBP-128-02-01	FM 4470 (2016)
PRI Construction Materials Technologies (TST5878)	FBP-131-02-01	FM 4474(C) (2011); TAS 114(C) (1995)
PRI Construction Materials Technologies (TST5878)	FBP-134-02-01	FM 4474(C) (2011); TAS 114(C) (1995)
PRI Construction Materials Technologies (TST5878)	FBP-145-02-01	ASTM D 6878(2021); TAS 110 (2000)
PRI Construction Materials Technologies (TST5878)	FBP-148-02-01	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-149-02-01	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-150-02-01	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-153-02-01	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-154-02-01	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-158-02-01	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-160-02-01	FM 4474(B) (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-160-02-02	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-162-02-01	ASTM D 1970 (2017a)
GFX15001.4	FL17862-R4	

<u>Entity</u>	<u>Report No.</u>	<u>Standard (Year)</u>
PRI Construction Materials Technologies (TST5878)	FBP-165-02-01	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-165-02-01A	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-165-02-02	FM 4474(B) (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-172-02-01	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-174-02-01	ASTM D3746 [1985(2015)e1]
PRI Construction Materials Technologies (TST5878)	FBP-175-02-01	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-175-02-02	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-177-02-01	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-177-02-01C	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-177-02-02	FM 4474(B) (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-178-02-01	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-178-02-02	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-178-02-06	FM 4474(B) (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-180-02-01A	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-181-02-01A	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-182-02-01	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-184-02-01	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-185-02-01	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-185-02-02	FM 4474(B) (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-186-02-01	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-190-02-01	FM 4474(B) (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-191-02-01	UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-191-02-02	FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-191-02-02A	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-193-02-02	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-194-02-01	FM 4474(C); (2011)
PRI Construction Materials Technologies (TST5878)	FBP-194-02-02	FM 4474(C); (2011)
PRI Construction Materials Technologies (TST5878)	FBP-194-02-03	FM 4474(B) (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-196-02-01	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-196-02-02	UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-196-02-04	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-206-02-01	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-206-02-02	UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-208-02-01	TAS 110 (2000)
PRI Construction Materials Technologies (TST5878)	FBP-213-02-01	FM 4474(D) (2011); TAS 114(J) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-213-02-03	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-216-02-01	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-220-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-220-02-02	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-222-02-01	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-225-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-230-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-233-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-233-02-02	TAS 114(C) (1995)
PRI Construction Materials Technologies (TST5878)	FBP-233-02-03	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-235-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-235-02-02	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-238-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-238-02-03	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-239-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-240-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-241-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-242-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)

<u>Entity</u>	<u>Report No.</u>	<u>Standard (Year)</u>
PRI Construction Materials Technologies (TST5878)	FBP-243-02-01	FM 4474(B) (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-254-02-02	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-258-02-02B	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-258-02-02C	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-260-02-01	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-260-02-02	FM 4474(B) (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-265-02-02	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-271-02-02	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-276-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-277-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-279-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-282-02-01	FM 4474(B) (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-283-02-02B	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-283-02-03	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-291-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-298-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-304-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-313-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-313-02-02	FM 4474(B) (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-317-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-317-02-02	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-318-02-01	FM 4474(B) (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-322-02-02	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-324-02-02	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-331-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-334-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-334-02-02	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-336-02-01	FM 4474(B) (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-338-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-339-02-02A	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-339-02-02B	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-340-02-01A.1	UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-341-02-01	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-345-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-352-02-01.1	TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-353-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-355-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-356-02-01	UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-357-02-01	TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-358-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)

<u>Entity</u>	<u>Report No.</u>	<u>Standard (Year)</u>
PRI Construction Materials Technologies (TST5878)	FBP-359-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-362-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-363-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-367-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	FBP-368-02-01	ASTM D6878 (2021); TAS 110 (2000)
PRI Construction Materials Technologies (TST5878)	FBP-373-02-01A	TAS 110 (2000)
PRI Construction Materials Technologies (TST5878)	FBP-373-02-01B	ASTM D6878 (2021)
PRI Construction Materials Technologies (TST5878)	FBP-373-02-01C	TAS 110 (2000)
PRI Construction Materials Technologies (TST5878)	FBP-375-02-01	ASTM D 1876 (2008)(2015)e1)
PRI Construction Materials Technologies (TST5878)	FBP-389-02-01	FM 4474(C) (2011)
PRI Construction Materials Technologies (TST5878)	FBP-389-02-02	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	348T0047	FM 4474(D) (2011); UL 1897 (2015)
PRI Construction Materials Technologies (TST5878)	348T0088	TAS 110 (2000)
PRI Construction Materials Technologies (TST5878)	348T0089	TAS 110 (2000)
PRI Construction Materials Technologies (TST5878)	348T0090	TAS 110 (2000)
PRI Construction Materials Technologies (TST5878)	348T0111	FM 4474(B) (2011); TAS 114(D) (2011)
PRI Construction Materials Technologies (TST5878)	348T0117	FM 4474(B) (2011); TAS 114(D) (2011)
Trinity ERD (TST6049)	F11080.09.08	TAS 114(J) (2011) ¹
Trinity ERD (TST6049)	F45600.09.13	TAS 110 (2000)
Trinity ERD (TST6049)	SFS-SC10010.02.16	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2015)
Trinity ERD (TST6049)	F38200.04.15-R1	ASTM D6878 (2021)

¹ Standard test method has been found equivalent to FM 4474 (2011) referenced by the FBC.

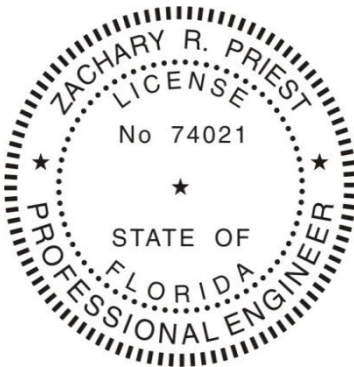
LIMITATIONS

1. Fire classification is not within the scope of this evaluation.
2. Foam plastic insulation shall be separated from the building interior in accordance with the FBC 2603.4 and 2603.6.
3. The roof deck and the roof deck attachment information are provided based on testing. FBC requirements for the rational design of the roof deck, including the attachment, are not within the scope of this evaluation.
4. In the HVHZ, fastener spacing for insulation attachment is determined using a Minimum Characteristic Force (F') of 275 lbf as demonstrated via testing to TAS 105. If the field tested fastener value is below 275 lbf, then insulation attachment shall not be acceptable.
5. In the HVHZ, fastener spacing for base sheets or membrane attachment shall meet the minimum fastener resistance value and the *MDP* for the specified assembly. It is permissible for a qualified professional to submit a revised fastener spacing utilizing the withdrawal resistance value obtained from TAS 105 testing and calculations performed in accordance with RAS 117 and/or RAS 137, when the fastener resistance is found less than required.
6. In the HVHZ, if mechanical attachment through the lightweight insulating concrete to the structural deck is proposed, a field fastener withdrawal test shall be conducted in compliance with TAS 105 to determine equivalent or increased attachment densities. Revised fastener densities shall be submitted utilizing the withdrawal resistance value obtained from TAS 105 testing and calculations performed in accordance with RAS 117 and/or RAS 137.
7. **HVHZ:** For assemblies containing mechanical attachment, the allowable uplift pressure for the selected assembly shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16. The attachment density may be increased by a qualified design professional, as necessary, to meet the design pressure requirements in the periphery zones. Calculations shall be conducted in compliance with RAS 117 and/or RAS 137.
Non-HVHZ: For assemblies containing mechanical attachment or adhered in ribbon-applied adhesive, the allowable uplift pressure for the selected assembly shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16. The attachment density may be increased by a qualified design professional, as necessary, to meet the design pressure requirements in the periphery zones. Calculations shall be conducted in compliance with RAS 117, RAS 137, or Section 2.2.10.1 FM LPDS 1-29 (July 2022).
8. Reroofing applications shall be examined in accordance with FBC Section 1511 outside of the HVHZ and FBC Section 1521 within the HVHZ. For mechanically fastened systems, a field withdrawal resistance test (TAS 105 in the HVHZ; ANSI/SPRI FX-1 or TAS 105 in the non-HVHZ) shall be conducted by a qualified professional to ensure the fastener meets the minimum design load requirements of the system. For adhered systems, a field uplift resistance test (TAS 124 in the HVHZ; ASTM E 907, FM LPDS 1-52, ANSI/SPRI IA-1, or TAS 124 in the non-HVHZ) shall be conducted to confirm conformance of the existing to the minimum design loads.
9. **HVHZ:** For assemblies containing fully adhered or ribbon adhered attachment, or where extrapolation of the assembly is not permitted, the *MDP* for the selected assembly shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16 without augmentation.
Non-HVHZ: For assemblies adhered in ribbon-applied adhesive, the allowable uplift pressure for the selected assembly shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16. The attachment density may be increased by a qualified design professional, as necessary, to meet the design pressure requirements in the periphery zones. Calculations shall be conducted in compliance with Section 2.2.10.1 FM LPDS 1-29 (July 2022).
10. Installation of the evaluated products shall comply with this report, the FBC, and the manufacturer's published application instructions. Where discrepancies exist between these sources, the more restrictive and FBC compliant installation detail shall prevail.
11. The minimum roof slope shall be 1/4:12 for new construction.
12. All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.
13. Fasteners applied in rows may impart concentrated loads to structural components of the building. Designers should consider the fastener spacing of the roof system in relation to the spacing of structural supports when selecting a roof system.



COMPLIANCE STATEMENT

This report has been prepared in accordance with F.A.C. Rule 61G20-3.



**This item has been
digitally signed and
sealed by Zachary R.
Priest, PE, on 6/24/2024.**

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Zachary R. Priest, P.E.
Florida Registration No. 74021
Organization No. ANE9641

CERTIFICATION OF INDEPENDENCE

CREEK Technical Services, LLC does not have, nor will it acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

CREEK Technical Services, LLC is not owned, operated, or controlled by any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

APPENDICES

- 1) APPENDIX A – Installation (8 pages)
- 2) APPENDIX B – Nomenclature and Approved Assemblies (91 pages)



INSTALLATION

Note - Refer to the [APPROVED ASSEMBLIES](#) section of this report for specific installation details of a selected assembly.

Unless otherwise specified in this report the following installation details shall be met for the named products:

Component	Product	Installation Detail
Fasteners, Battens & Plates	Elevate All-Purpose Fasteners	Min. 0.75-inch penetration through the top rib of the steel deck or wood deck
	GenFast AP Fasteners	
	Elevate All-Purpose S Fasteners	
	Trufast #12 DP Fasteners	
	Elevate Concrete Drive	Min. 1.25" embedment into min. 3" thick structural concrete
	GenFast Concrete Drive	
	Elevate HD Seam Plate	2 3/8-inch diameter; 0.036-inch Galvalume steel plate with eyehooks
	GenFlex HD Seam Plate	
	Elevate HD Plus Seam Plate	2.75-inch diameter; 0.037-inch Galvalume steel plate with eyehooks
	GenFlex HD Plus Seam Plate	
	Elevate Heavy Duty Fastener	Min. 0.75-inch penetration through the top rib of the steel deck or wood deck; Min. penetration 1-inch into concrete deck (Heavy Duty Plus shall not be used in concrete deck)
	GenFlex Heavy Duty Fastener	
	Elevate Heavy Duty Plus Fastener	
	GenFast #16 Max Fastener	
	SFS Intec Dekfast #14	
	SFS Intec Dekfast #15 HS	
	Elevate Insulation Fastening Plate	3-inch diameter; Galvalume steel plate
	GenFast 3" Round Insulation Plate	
	Trufast 3" Metal Seam Plates	
	Elevate 1.7" LWC Base Ply Fastener	Full embedment of shank into substrate
	Elevate Metal Batten Bar	1-inch wide steel batten bar
	Coiled Metal Batten Bar	
	Elevate Polymer Batten Strip	0.75-inch wide plastic batten strip
	GenFast 3/4-inch Polymer Batten Strip	
	Elevate Purlin Fastener	Min. 0.75-inch penetration through purlin
	GenFast Purlin Fastener	
	SFS Intec SFS Purlin Fastener	
	Elevate UltraPly QuickSeam R.M.A. Strip	Prime at a rate of 200-250 ft ² /gal with Elevate Single-Ply QuickPrime Prime prior to adhering strip
	EZ Peel & Stick R.M.A. Strip	
	Elevate UltraPly TPO InvisiWeld Plate	Min. 3-inch diameter; Induction welded in the field of membrane with RhinoBond® welding tool; welds not permitted at lap seams
	GenFlex EZ TPO InvisiWeld Plate	Min. 3-inch diameter; Induction welded in the field of membrane with isoweld® 3000® welding tool; welds not permitted at lap seams
	Elevate UltraPly TPO InvisiWeld -S Plate	
Vapor Barrier	Elevate V-Force Vapor Barrier Membrane	Self-adhered; Min. 3-inch side laps; Min. 6-inch end laps; All substrates except metal decks must be primed with vapor barrier primer.
	GenFlex Vapor Shield Membrane	
	Elevate APP 80 Glass Base	Min. 3-inch lap; Torch adhered
	Elevate SBS Glass Base Torch	
	Elevate SBS Glass FR Torch	
	Elevate SBS Poly Torch Base	
Vapor Barrier Primer	Elevate SA-LVOC Primer	Applied at a rate of 0.5 gal/sq.
	Elevate SA-Solvent Based (SB) Primer	
	Elevate SA-Water Based (WB) Primer	Applied at a rate of 150-200 ft ² /gal
Insulation Adhesives	Elevate I.S.O. Stick	Partially adhered in 0.75 to 1-inch wide ribbons
	GenFlex I.S.O. Stick	
	Elevate I.S.O. Fix II	Partially adhered in 0.75 to 1-inch wide ribbons
	GenFlex I.S.O. Fix II	



Appendix A

Component	Product	Installation Detail
Insulation Adhesives (Cont'd)	Elevate I.S.O. Twin Pack Insulation Adhesive	Partially adhered in 0.5 to 0.75-inch wide ribbons
	GenFlex One Step Insulation Adhesive	
	Elevate I.S.O. Spray R	Partially adhered in 0.75 to 1-inch wide ribbons
	Elevate Twin Jet	Partially adhered in 1 to 1.25-inch wide ribbons
Insulation/Cover Boards	Georgia-Pacific DensDeck or DensDeck Prime	Min. 0.25-inch thick
	Elevate ISO 95+ GL	Min. 0.5-inch thick; Min. 20 psi; Adhered boards shall be a maximum 4 ft. x 4 ft.
	GenFlex ISO Insulation	
	Elevate ISOGARD GL	
	Elevate ISOGARD CG	
	Elevate RESISTA	
	GenFlex Coated Glass Facer	0.5-inch to start with 0.25-inch per ft taper; Adhered boards shall be a maximum 4 ft x 4 ft
	Elevate ISO 95+ GL (Tapered)	
	GenFlex ISO Insulation (Tapered)	
	Elevate ISOGARD GL (Tapered)	
	Elevate ISOGARD CG (Tapered)	
	Elevate RESISTA (Tapered)	Min. 0.5-inch thick; Adhered boards shall be a maximum 4 ft. x 4 ft.
	GenFlex Coated Glass Facer (Tapered)	
	Elevate ISOGARD HD	
	GenFlex HD ISO	
	Elevate ISOGARD HD Composite	
	GenFlex HD Composite ISO	
	Elevate RESISTA	Min. 0.5-inch thick; Min. 20 psi; Adhered boards shall be a maximum 4 ft. x 4 ft.
	GenFlex Coated Glass Facer	
	USG SECUROCK Glass-Mat Roof Board	Min. 0.25-inch thick
	USG SECUROCK Gypsum-Fiber Roof Board	Min. 0.25-inch thick
Membrane Adhesives	ASTM D 312, Type IV Asphalt	Fully adhered within the EVT range at a rate of 25-40 lbs/100 ft ²
	Elevate I.S.O. Spray R	Partially adhered in 0.75 to 1-inch wide ribbons
	Elevate Jet Bond Spray Adhesive	Applied to both the bottom surface of the roof cover and the top surface of the substrate; Applied with 2 in. overlap at a rate of 1.75-2.2 lbs/100ft ² to each surface with bareback membranes; Applied with 6 in. overlap at a rate of 2.5-2.7 lbs/100ft ² to each surface with fleeceback membranes
	Elevate UltraPly Bonding Adhesive	Fully adhered at rate of 45-60 ft ² /gal; Applied simultaneously to underside of membrane and substrate
	EZ TPO Bonding Adhesive	
	Elevate Single-Ply LVOC Bonding Adhesive	
	GenFlex EPDM Bonding Adhesive LVOC	
	Elevate Single-Ply LVOC 1168 Bonding Adhesive	
	EZ TPO Bonding Adhesive LVOC-1168	Adhered in spatter at a rate of 5.8 lbs/sq.
	Elevate Twin Jet	
	Elevate Water Based Bonding Adhesive P	Fully adhered at a rate of 100-120 ft ² /gal.
	Elevate XR Stick	Partially adhered in 0.75 to 1-inch wide ribbons
	EZTPO FB Stick Adhesive	
	Elevate XR Bonding Adhesive	Fully adhered at rate of 70-90 ft ² /gal; Applied to substrate only
	GenFlex FB Bonding Adhesive	
	Owens Corning PermaMop Asphalt	Fully adhered within the EVT range at a rate of 25-40 lbs/100 ft ²

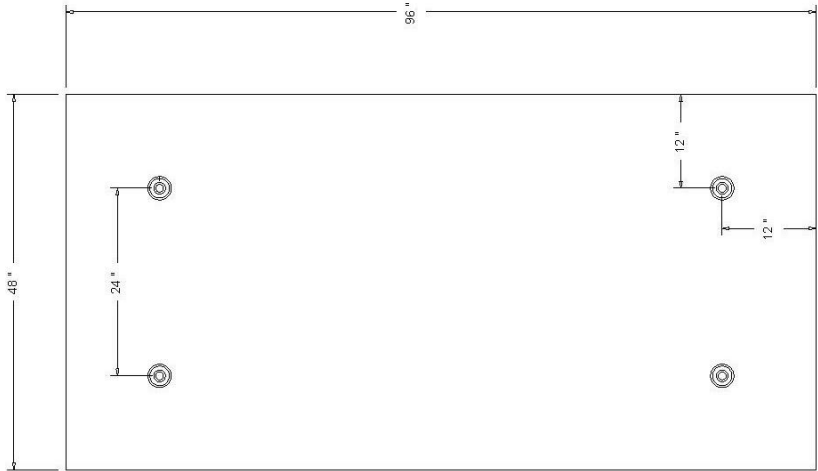
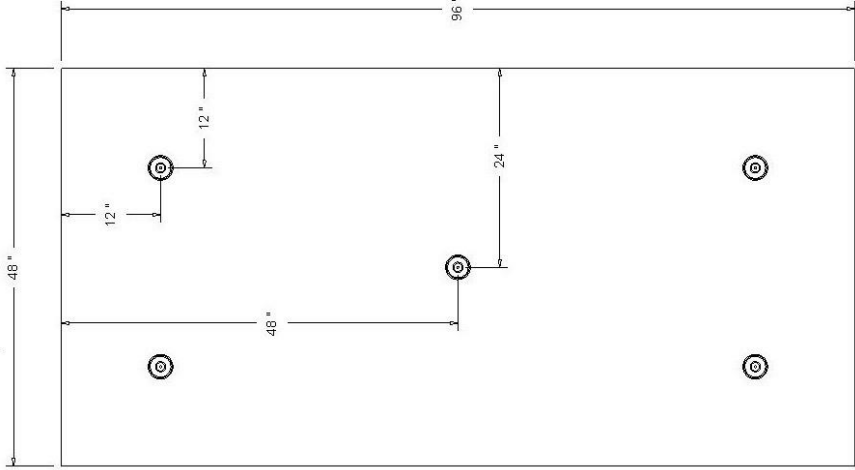
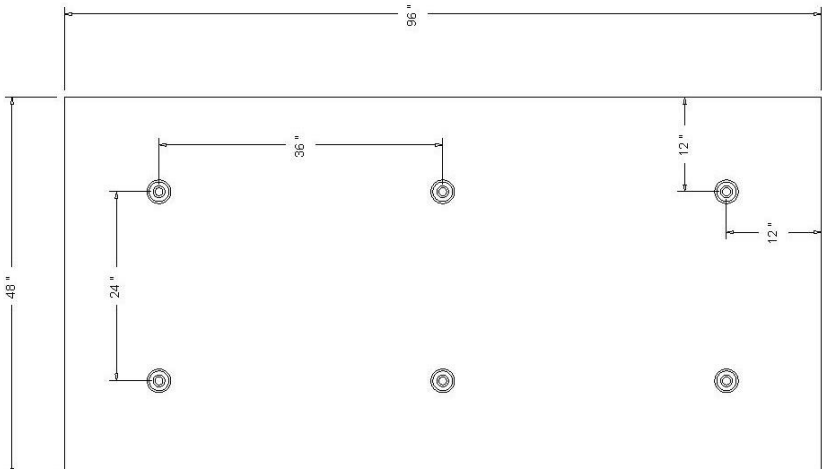


Appendix A

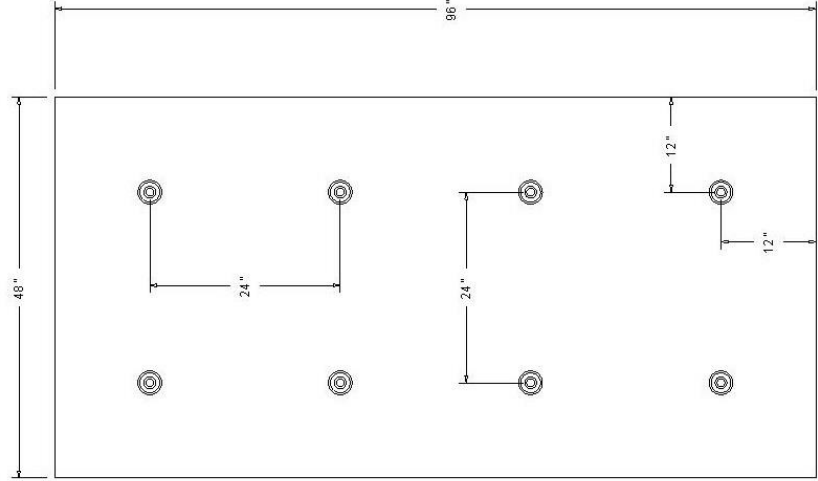
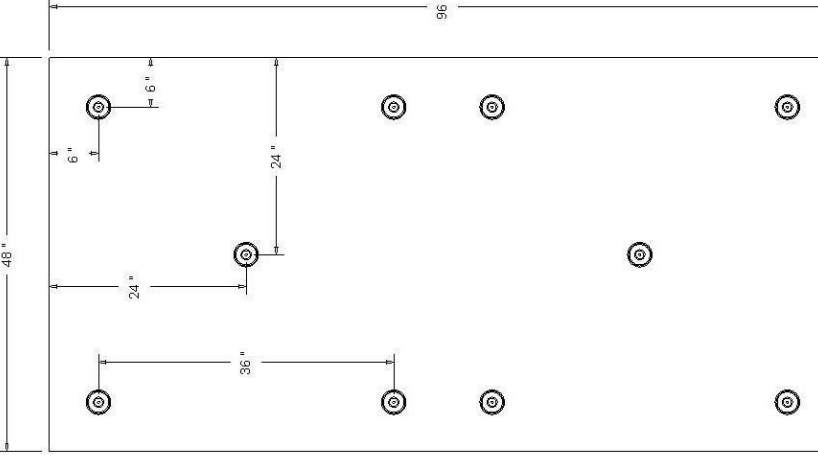
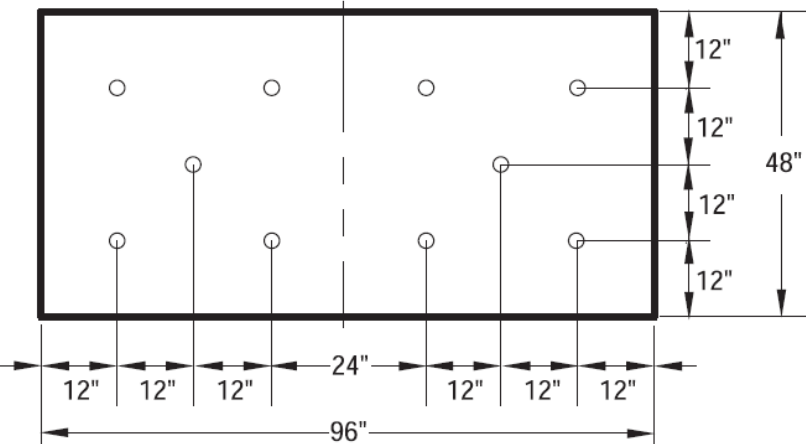
Component	Product	Installation Detail
Base Sheets	Elevate MB Base	Min. 2-inch wide side-laps; Side-laps shall be installed perpendicular to the direction of the steel deck ribs for mechanically attached systems
	Elevate Channel Venting Base	Min. 3-inch wide side-laps; Min. 6-inch end laps; Side-laps shall be installed perpendicular to the direction of the steel deck ribs for mechanically attached systems
	BASEGARD SA	
	Elevate Ply IV (4)	
	Elevate Ply VI (6)	
	Elevate SBS Base	
	Elevate SBS Base-P	
	Elevate SBS Glass Torch Base	
	Elevate SBS Glass Torch Base 1.5	
	Elevate SBS PolyBase	Min. 3-inch wide side-laps; Min. 6-inch end laps; Side-laps shall be installed perpendicular to the direction of the steel deck ribs for mechanically attached systems
	Elevate SBS Poly Torch Base	
	Elevate SBS Premium Base	
	Elevate SBS Premium Poly Base	
	Elevate SBS Smooth	
Single-Ply Membrane	GenFlex EZ TPO	Min. 2-inch wide side-laps with min. 1.5-inch wide heat weld; In-lap fastened systems shall have min. 6-inch wide side-laps with min. 1.5-inch wide heat weld; Side-laps shall be installed perpendicular to the direction of the steel deck ribs for mechanically attached systems
	GenFlex EZ TPO Peel and Stick HW	
	GenFlex EZ Fleece Backed TPO 45 mil	
	GenFlex EZ Fleece Backed TPO 60 mil	
	GenFlex EZ Fleece Backed TPO 80 mil	
Cellular Lightweight Insulating Concrete	Min. 300 psi Celcore MF with HS Rheology Admixture	Slurry coat min. 0.25-inch thick; 1-inch thick EPS board (1 lbs/ft ³); Min. 2-inch thick top coat; Celcore PVA curing compound applied at rate of 300 ft ² /gal
	Celcore S-1	Deck is treated by applying a continuous film with a broom prior to placement of the Celcore lightweight concrete
	Celcore Sanded Bonding Surface (SBS)	Applied at a rate of 100 ft ² /gal
	Min. 300 psi Mearlcrete	Slurry coat min. 0.25-inch thick; 1" thick EPS board (1 lbs/ft ³); Min. 2-inch thick top coat;
	Min. 300 psi Elastizell	
	Min. 300 psi Concrecel	
	Min. 200 psi Cellular Lightweight Insulating Concrete	

Insulation/Cover Board Fastening Patterns	
Description	Fastening Pattern
4 per 4 ft. x 4 ft. board	<p>(Max. 4.0ft² contributory area per fastener)</p>

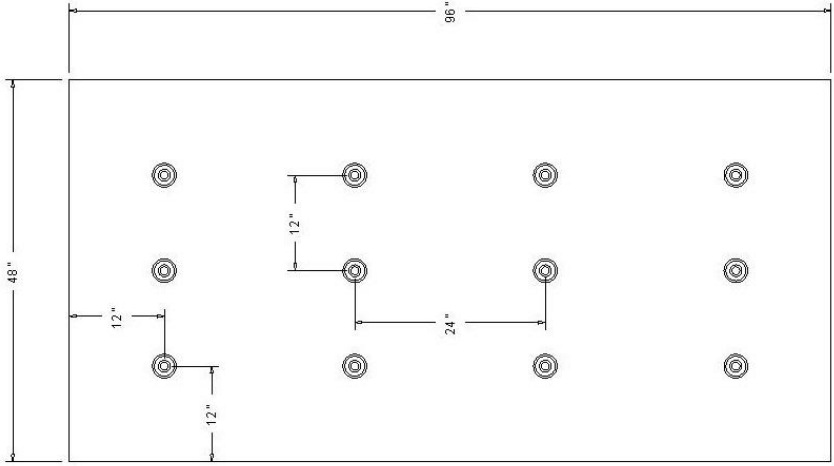
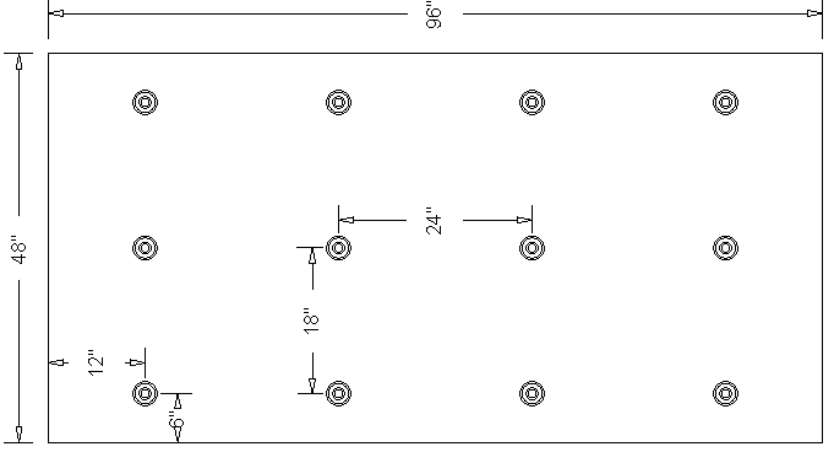
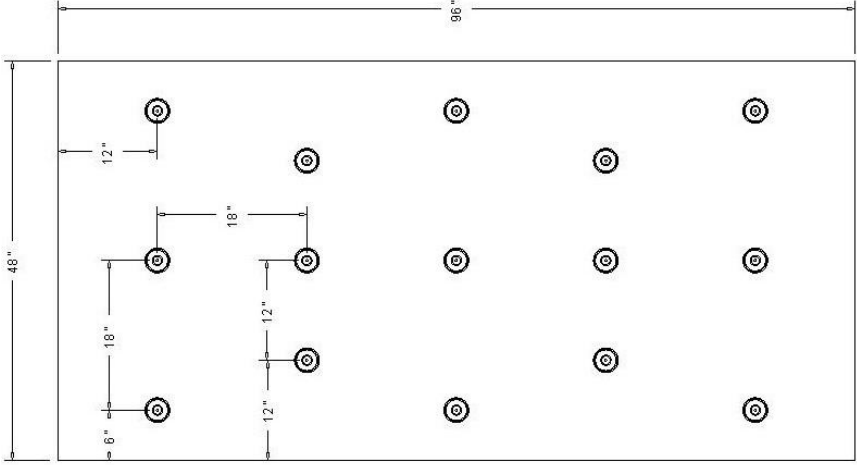


Insulation/Cover Board Fastening Patterns	
Description	Fastening Pattern
4 per 4 ft. x 8 ft. board	 <p>(Max. 8ft² contributory area per fastener)</p>
5 per 4 ft. x 8 ft. board	 <p>(Max. 6.4ft² contributory area per fastener)</p>
6 per 4 ft. x 8 ft. board	 <p>(Max. 5.33ft² contributory area per fastener)</p>

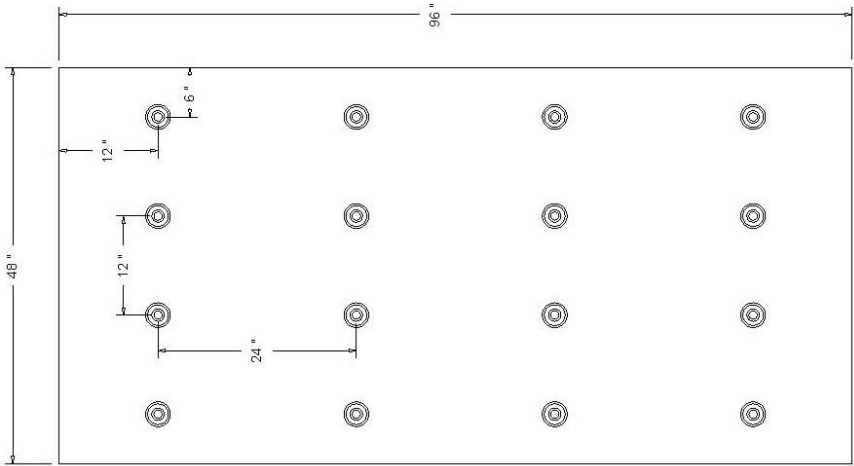
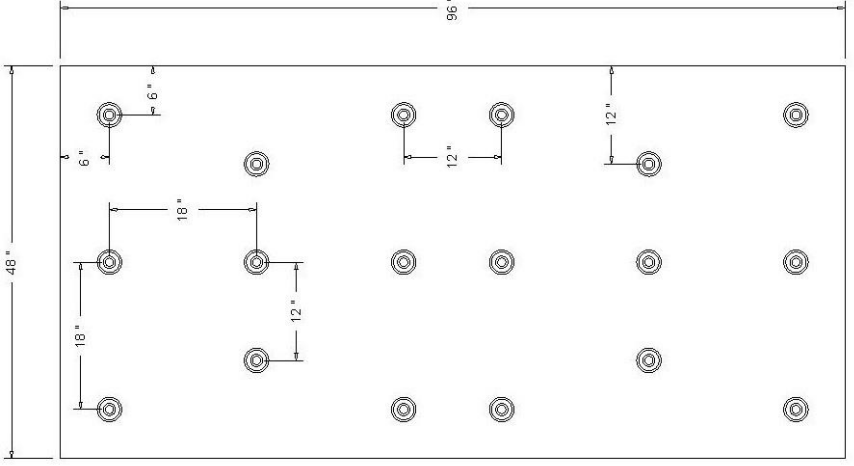
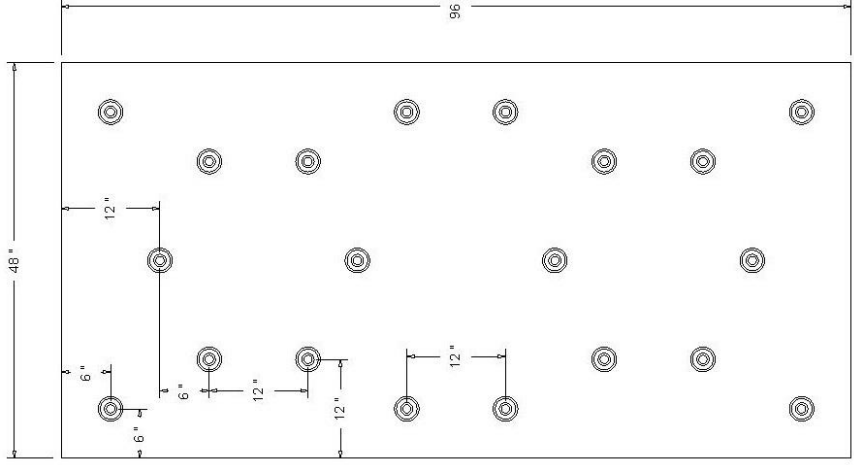


Insulation/Cover Board Fastening Patterns	
Description	Fastening Pattern
8 per 4 ft. x 8 ft. board	 <p>(Max. 4.00ft² contributory area per fastener)</p>
10 per 4 ft. x 8 ft. board	 <p>(Max. 3.2ft² contributory area per fastener)</p>
10 per 4 ft. x 8 ft. board (Alt. Pattern)	 <p>(Max. 3.2ft² contributory area per fastener)</p>

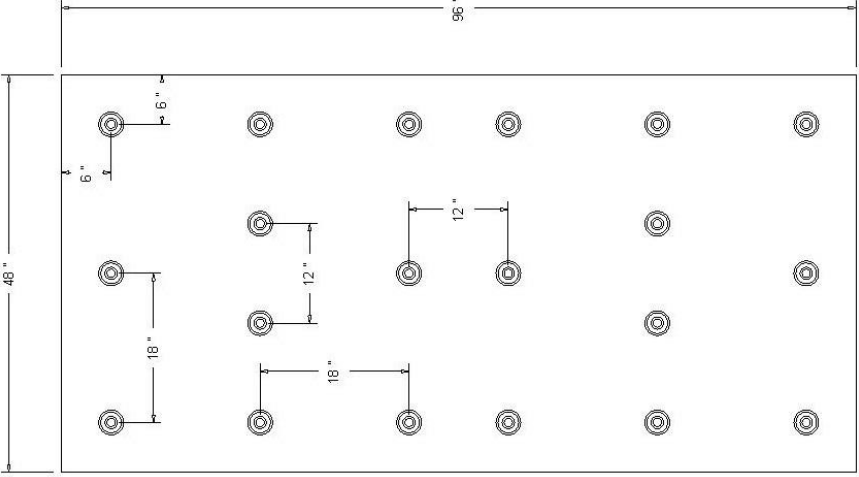
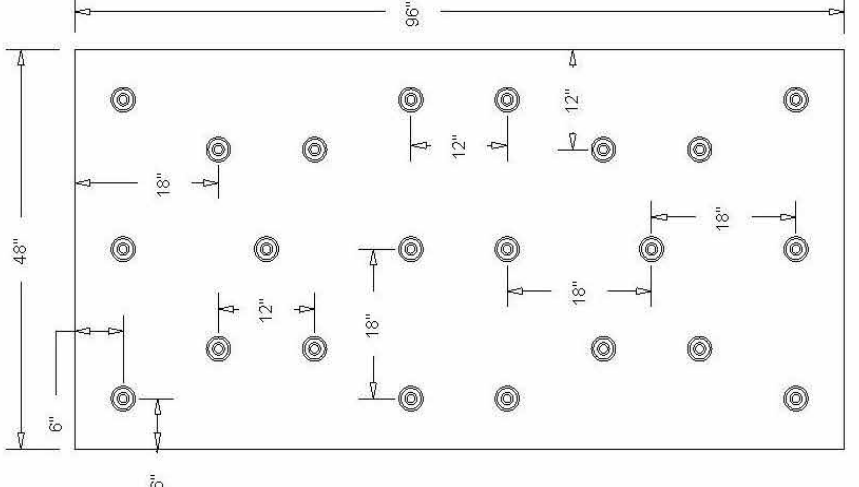
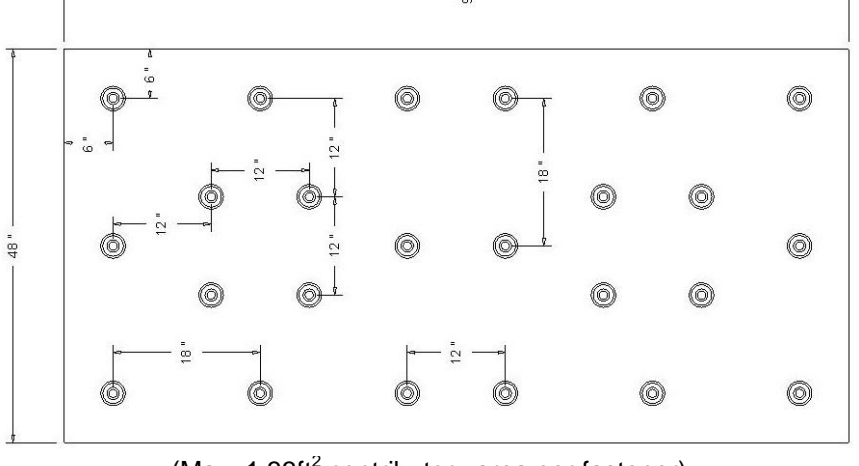


Insulation/Cover Board Fastening Patterns	
Description	Fastening Pattern
12 per 4 ft. x 8 ft. board	 <p>(Max. 2.67ft² contributory area per fastener)</p>
12 per 4 ft. x 8 ft. Board (Alt. Pattern)	 <p>(Max. 2.67ft² contributory area per fastener)</p>
15 per 4 ft. x 8 ft. Board	 <p>(Max. 2.13ft² contributory area per fastener)</p>



Insulation/Cover Board Fastening Patterns	
Description	Fastening Pattern
16 per 4 ft. x 8 ft. board	 <p>(Max. 2.00ft² contributory area per fastener)</p>
18 per 4 ft. x 8 ft. board	 <p>(Max. 1.78ft² contributory area per fastener)</p>
20 per 4 ft. x 8 ft. board	 <p>(Max. 1.60ft² contributory area per fastener)</p>



Description	Insulation/Cover Board Fastening Patterns
20 per 4 ft. x 8 ft. board (Alt. Pattern)	 <p>(Max. 1.60ft² contributory area per fastener)</p>
22 per 4 ft. x 8 ft. board	 <p>(Max. 1.45ft² contributory area per fastener)</p>
24 per 4 ft. x 8 ft. board	 <p>(Max. 1.33ft² contributory area per fastener)</p>

NOMENCLATURE

The following naming conventions are utilized to specify products in the [APPROVED ASSEMBLIES](#) section of this report. Refer to the nomenclature below when deciphering the allowable products for use in the selected assembly. Installation requirements shall be as noted in the [APPROVED ASSEMBLIES](#) section of this report.

Name	Definition
<i>Air Barrier</i>	Installation shall comply with Section C402.5.1 of the Florida Building Code, Energy Conservation, 8 th Edition (2023)
<i>AP Fasteners & Plates</i>	One of the following: -Elevate All-Purpose Fasteners and Insulation Fastening Plates -GenFast AP Fasteners and GenFast 3" Round Insulation Plates -Elevate All-Purpose S Fasteners and Insulation Fastening Plates
<i>As Tested</i>	Information provided to the report user based on the as tested condition of the roof system
<i>BASEGARD</i>	One ply of BASEGARD SA. Shall only be used with membranes applied in hot asphalt.
<i>CD Fasteners & Insulation Plates</i>	One of the following: -Elevate Concrete Drive and Insulation Fastening Plates -GenFast Concrete Drive and GenFast 3" Round Insulation Plates
<i>CD Fasteners & Plates</i>	One of the following: -Elevate Concrete Drive and Elevate HD Seam Plates -GenFast Concrete Drive and GenFlex HD Seam Plates
<i>Cover Board</i>	One layer of any of the following products: -Georgia-Pacific DensDeck -Georgia-Pacific DensDeck Prime -Elevate ISOGARD HD -GenFlex HD ISO -USG SECUROCK Glass-Mat Roof Board -USG SECUROCK Gypsum-Fiber Roof Board
<i>Deck Detail</i>	<i>As Tested</i> deck construction details are described as follows:
	<i>Concrete Deck</i> Min. f'_c = 2,500 psi at 28 days
	<i>CWF Deck</i> Min. 2.5-inch thick Tectum I cementitious wood fiber panels
	Min. 22 ga, Wide Rib Deck (Type WR) conforming to ANSI/SDI-RD1.0 & FBC; 0.5% Vented and ASTM A653 G90 for LWIC applications only. The following nomenclature is used to further describe the <i>As Tested</i> condition.
	<i>F<#></i> <#> #12-24 HWH self-drilling screws or equivalent fastener at each flute used to secure the deck to the structural supports; Min. 0.25-inch penetration
	<i>G<#></i> Min. Grade <#> of <i>Steel Deck</i>
	<i>HS<#></i> Hilti S-SLC 01 M HWH screws or equivalent fastener secured <#>-inch o.c. along the panel side laps
	<i>HXE<#></i> <#> Hilti X-ENP 19 L 15 powder-driven fasteners or equivalent at each flute used to secure the deck to the structural supports; Min. 0.25-inch penetration
	<i>HXH<#></i> <#> Hilti X-HSN 24 powder-driven fasteners or equivalent at each flute used to secure the deck to the structural supports; Min. 0.25-inch penetration
	<i>L<#></i> Max. span of <#> ft.
	<i>P</i> Min. 5/8-inch diameter puddle welds at each flute used to secure the deck to the structural supports
	<i>PW</i> Min. 5/8-inch diameter puddle welds with weld washers at each flute used to secure the deck to the structural supports

APPENDIX B

Name	Definition		
<i>Deck Detail (Cont'd)</i>	<i>Steel Deck (Cont'd)</i>	<i>S<#></i>	1/4 "-14 HWH x7/8" self-drilling screws or equivalent fastener secured <#>-inch o.c. along the panel side laps
		<i>W</i>	0.75-inch O.D. flat washer used with indicated fastener
	<i>Wood Deck</i>	Solid or closely fitted span rated sheathing at max. 24 in. span; The following nomenclature is used to further describe the <i>As Tested</i> condition.	
		<i>T<#>P</i>	Min. <#>-inch thickness of the plywood
		<i>T<#>O</i>	Min. <#>-inch thickness of the OSB
		<i>L<#></i>	Max. span of <#> inches
		<i>N<#1>/<#2></i>	Min. 0.113-inch diameter x 2-3/8-inch ring shank nails spaced <#1>-inch o.c. at all intermediate supports and spaced <#2> at the perimeter of each board
<i>DensDeck</i>	Min. 0.25-inch Georgia-Pacific DensDeck		
<i>DensDeck Prime</i>	Min. 0.25-inch Georgia-Pacific DensDeck Prime		
<i>EZ TPO</i>	One ply of any one of the following products: 45-mil thick, 60-mil thick, or 80-mil thick GenFlex EZ TPO		
<i>EZ TPO P&S HW (HVHZ ONLY)</i>	For use in the HVHZ only. One ply of any one of the following products: 60-mil thick GenFlexEZ TPO Peel and Stick HW		
<i>EZ FB TPO</i>	One ply of any one of the following products: GenFlex EZ Fleece Backed TPO 45 mil, GenFlex EZ Fleece Backed TPO 60 mil or GenFlex EZ Fleece Backed TPO 80 mil		
<i>FB-BA</i>	One of the following products: -GenFlex FB Bonding Adhesive -Elevate XR Bonding Adhesive		
<i>FB-S</i>	One of the following products: -GenFlex EZ TPO FB Stick Adhesive -Elevate XR Stick Membrane Adhesive		
<i>HA</i>	ASTM D 312, Type IV asphalt		
<i>HD Fasteners & Insulation Plates</i>	One of the following: -Elevate Heavy Duty Fasteners and Insulation Fastening Plates -GenFlex Heavy Duty Fasteners and GenFast 3" Round Insulation Plates		
<i>HD Fasteners & Plates</i>	One of the following: -Elevate Heavy Duty Fasteners and Elevate HD Seam Plates -GenFlex Heavy Duty Fasteners and GenFlex HD Seam Plates		
<i>HD Plus Fasteners & Plates</i>	One of the following: -Elevate Heavy Duty Plus Fasteners and Elevate HD Plus Seam Plates -GenFast #16 Max Fasteners and GenFlex HD Plus Seam Plates		

APPENDIX B

Name	Definition
<i>Insulation</i>	One of more layers in any combination of the following products: -Georgia-Pacific DensDeck -Georgia-Pacific DensDeck Prime -GenFlex ISO Insulation -GenFlex HD ISO -GenFlex HD Composite ISO -GenFlex Coated Glass Facer -Elevate ISO 95+ GL or ISOGARD GL -Elevate ISOGARD HD -Elevate ISOGARD HD Composite -Elevate RESISTA or ISOGARD CG -USG SECUROCK Glass-Mat Roof Board -USG SECUROCK Gypsum-Fiber Roof Board
<i>Insulation Adhesive</i>	Adhered in accordance with one of the following options per INSTALLATION section: -GenFlex I.S.O. Fix II -GenFlex I.S.O. Stick -GenFlex One Step Insulation Adhesive -Elevate I.S.O. Fix II -Elevate I.S.O. Stick -Elevate I.S.O. Twin Pack Insulation Adhesive
<i>Insulation Adhesive II</i>	Adhered in accordance with one of the following options per INSTALLATION section: -GenFlex I.S.O. Fix II -GenFlex I.S.O. Stick -GenFlex One Step Insulation Adhesive -Elevate I.S.O. Fix II -Elevate I.S.O. Stick -Elevate I.S.O. Twin Pack Insulation Adhesive -Elevate I.S.O. Spray R
<i>Insulation Adhesive III</i>	Adhered in accordance with one of the following options per INSTALLATION section: -GenFlex I.S.O. Fix II -GenFlex I.S.O. Stick -Elevate I.S.O. Fix II -Elevate I.S.O. Stick -Elevate I.S.O. Spray R
<i>Insulation Adhesive IV</i>	Adhered in accordance with one of the following options per INSTALLATION section: -GenFlex One Step Insulation Adhesive -Elevate I.S.O. Twin Pack Insulation Adhesive -Elevate I.S.O. Spray R -Elevate Twin Jet

APPENDIX B

Name	Definition
<i>Insulation Adhesive VI</i>	Adhered in accordance with one of the following options per INSTALLATION section: -GenFlex I.S.O. Fix II -GenFlex I.S.O. Stick -GenFlex One Step Insulation Adhesive -Elevate I.S.O. Fix II -Elevate I.S.O. Stick -Elevate I.S.O. Twin Pack Insulation Adhesive -Elevate I.S.O. Spray R -Elevate Twin Jet
<i>Insulation Adhesive VII</i>	Adhered in accordance with one of the following options per INSTALLATION section: -GenFlex I.S.O. Stick -Elevate I.S.O. Stick -Elevate I.S.O. Spray R -Elevate Twin Jet
<i>Insulation Adhesive VIII</i>	Adhered in accordance with one of the following options per INSTALLATION section: -GenFlex I.S.O. Fix II -GenFlex I.S.O. Stick -Elevate I.S.O. Fix II -Elevate I.S.O. Stick -Elevate I.S.O. Spray R -Elevate Twin Jet
<i>Insulation Adhesive IX</i>	Adhered in accordance with one of the following options per INSTALLATION section: -GenFlex I.S.O. Fix II -Elevate I.S.O. Fix II -Elevate I.S.O. Spray R -Elevate Twin Jet
<i>Insulation Adhesive X</i>	Adhered in accordance with one of the following options per INSTALLATION section: - GenFlex I.S.O. Stick -GenFlex One Step Insulation Adhesive -Elevate I.S.O. Stick -Elevate I.S.O. Twin Pack Insulation Adhesive -Elevate I.S.O. Spray R -Elevate Twin Jet
<i>InvisiWeld</i>	One of the following: -Elevate UltraPly InvisiWeld Plates or InvisiWeld-S Plates with Elevate Heavy Duty Fasteners or Elevate Concrete Drive fasteners (concrete decks only) - EZ TPO InvisiWeld Plates with GenFlex Heavy Duty Fasteners or GenFlex Concrete Drive fasteners (concrete decks only)
<i>Invisiweld-S</i>	Elevate UltraPly Invisiweld-S Plates with SFS inteck Dekfast #15 HS, Elevate Heavy Duty Fasteners or Elevate Concrete Drive fasteners (concrete decks only)
<i>Invisiweld-S II</i>	Elevate UltraPly Invisiweld-S Plates with SFS inteck Dekfast #15 HS Fasteners or Dekfast #14 Fasteners (concrete decks only)
<i>I.S.O. Fix II</i>	Ribbon adhered in either GenFlex I.S.O. Fix II or Elevate I.S.O. Fix II
<i>I.S.O. IA</i>	Ribbon adhered in either GenFlex One Step Insulation Adhesive or Elevate I.S.O. Twin Pack Insulation Adhesive
<i>I.S.O. Stick</i>	Ribbon adhered in either GenFlex I.S.O. Stick or Elevate I.S.O. Stick

APPENDIX B

Name	Definition
<i>ISO</i>	One or more layers of GenFlex ISO Insulation, Elevate ISO 95+ GL, or Elevate ISOGARD GL; Elevate ISOGARD GL shall be minimum 2.0-inch thickness when mechanically fastened in roof assemblies with adhered membranes
<i>ISO HD</i>	One or more layers of GenFlex HD ISO or Elevate ISOGARD HD
<i>ISO HD-C</i>	One or more layers of GenFlex HD Composite ISO or Elevate ISOGARD HD Composite
<i>ISO CG</i>	One or more layers of GenFlex Coated Glass Facer, Elevate RESISTA, or Elevate ISOGARD CG; Elevate ISOGARD CG shall be minimum 2.0-inch thickness when mechanically fastened in roof assemblies with adhered membranes
<i>JBSA</i>	Elevate Jet Bond Spray Adhesive
<i>LVOC Bonding Adhesive</i>	Adhered in either GenFlex EPDM Bonding Adhesive or Elevate Single-Ply LVOC Bonding Adhesive
<i>LVOC-1168 Bonding Adhesive</i>	Adhered in either GenFlex EZ TPO Bonding Adhesive LVOC-1168 or Elevate Single-Ply LVOC 1168 Bonding Adhesive
<i>LWIC</i>	Poured-in-place Cellular Lightweight Insulating Concrete with encapsulated insulation board
<i>MA Base</i>	One ply of Channel Venting Base, MB Base, SBS Base, SBS Base-P, SBS Glass Torch Base, SBS Glass Torch Base 1.5, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, SBS Poly Torch Base, or SBS Smooth mechanically attached as prescribed per the approved assembly
<i>Membrane Adhesive</i>	Fully adhered in accordance with one of the following options per INSTALLATION section: -Gen Flex EZ TPO Bonding Adhesive -GenFlex EPDM Bonding Adhesive LVOC -GenFlex EZ TPO Bonding Adhesive LVOC-1168 -Elevate UltraPly Bonding Adhesive -Elevate Single-Ply LVOC Bonding Adhesive -Elevate Single-Ply LVOC 1168 Bonding Adhesive
<i>Membrane Adhesive II</i>	Fully adhered in accordance with one of the following options per INSTALLATION section: -GenFlex EZ TPO Bonding Adhesive -GenFlex EPDM Bonding Adhesive LVOC -GenFlex EZ TPO Bonding Adhesive LVOC-1168 -Elevate UltraPly Bonding Adhesive -Elevate Single-Ply LVOC Bonding Adhesive -Elevate Single-Ply LVOC 1168 Bonding Adhesive -Elevate Water Based Bonding Adhesive P
<i>Membrane Adhesive III</i>	Fully adhered in accordance with one of the following options per INSTALLATION section: -GenFlex EPDM Bonding Adhesive LVOC -GenFlex EZ TPO Bonding Adhesive LVOC-1168 -Elevate Single-Ply LVOC Bonding Adhesive -Elevate Single-Ply LVOC 1168 Bonding Adhesive -Elevate Water Based Bonding Adhesive P
<i>Membrane Adhesive IV</i>	Fully adhered in accordance with one of the following options per INSTALLATION section: -GenFlex EZ TPO Bonding Adhesive -GenFlex EPDM Bonding Adhesive LVOC -GenFlex EZ TPO Bonding Adhesive LVOC-1168 -Elevate UltraPly Bonding Adhesive -Elevate Single-Ply LVOC Bonding Adhesive -Elevate Single-Ply LVOC 1168 Bonding Adhesive -Elevate Water Based Bonding Adhesive P -Elevate Jet Bond Spray Adhesive

APPENDIX B

Name	Definition
<i>Membrane Adhesive V</i>	Fully adhered in accordance with one of the following options per INSTALLATION section: -GenFlex EPDM Bonding Adhesive LVOC -GenFlex EZ TPO Bonding Adhesive LVOC-1168 -Elevate Single-Ply LVOC Bonding Adhesive -Elevate Single-Ply LVOC 1168 Bonding Adhesive -Elevate Water Based Bonding Adhesive P -Elevate Jet Bond Spray Adhesive
<i>MCRF</i>	Minimum Characteristic Resistance Force as determined by TAS 105 for the named fastener in the selected assembly
<i>MDP</i>	Maximum Design Pressure
<i>PermaMop</i>	Owens Corning PermaMop Asphalt
<i>Preliminarily Secured</i>	Fastened at minimum rate of 5 per 4 ft. x 8 ft. board or 4 per 4 ft. x 4 ft. board.
<i>Recover</i>	Where assemblies are used to recover an existing roof, the existing roof shall consist of only one layer of roofing, i.e. recovering a previously recovered roof is not permitted. Recover roofing shall be conducted in compliance with FBC Section 1511 outside of the HVHZ and FBC Section 1521 within the HVHZ. For mechanically fastened roof assemblies, the existing roof insulation thickness may be contributory in meeting the minimum insulation thickness requirements for a given assembly.
<i>SBS TA</i>	SBS Glass Torch Base fully bonded by torch adhering.
<i>SECUROCK</i>	Min. 0.25-inch USG SECUROCK Gypsum-Fiber Roof Board
<i>TJ-S</i>	Twin Jet applied in spatter
<i>TJ-R</i>	Twin Jet applied in ribbons
<i>TPO Bonding Adhesive</i>	Adhered in either GenFlex EZ TPO Bonding Adhesive or Elevate UltraPly Bonding Adhesive
<i>VB</i>	One or more plies of the following applied as a vapor barrier: - Elevate Ply IV (4) - Elevate Ply VI (6) - Elevate MB Base - Elevate SBS Base - Elevate SBS PolyBase - Elevate SBS Premium Base
<i>V-Force</i>	One ply of Elevate V-Force Vapor Barrier Membrane or GenFlex Vapor Shield Membrane self-adhered fully over deck. Non-metal substrates must be primed with Elevate SA-Solvent Based (SB) Primer or Elevate SA-LVOC Primer
<i>WB V-Force</i>	One ply of Elevate V-Force Vapor Barrier Membrane or GenFlex Vapor Shield Membrane self-adhered fully over deck primed with V-Force WB Primer

APPROVED ASSEMBLIES

The following notes shall be observed when using the assembly tables below.

- Allowable pressures were calculated using a 2:1 margin of safety per FBC Section 1504.9 and 1523.4. *MDP* shall be minimum -45 psf for use in the HVHZ.
- Refer to [LIMITATIONS](#) and [NOMENCLATURE](#) sections of this evaluation when using the table(s) below. Items *italicized* refer to specific nomenclature used in this report.
- Refer to [INSTALLATION](#) section of this report for installation detail when the information is not explicitly stated for the selected assembly.
- The on-center (o.c.) spacing given is the maximum allowable attachment spacing for the rated system.
- As Tested* information for roof deck construction is provided for information only. The addition of the *As Tested* deck information does not obviate the requirement for rational design of the roof deck and roof deck attachment in accordance with FBC requirements.
- Prior to application of the approved assembly an optional vapor barrier, such as 4-6 mil polyethylene, *V-Force*, or *DensDeck Prime* with *V-Force*, may be installed over concrete or steel decks when the approved assembly contains insulation or the membrane fastened through to the deck.
- Steel deck utilized in System Nos. S-A-# shall be ASTM A653, G90 galvanized steel.

Assembly System Numbers and Definitions	
C-A-#	Assemblies with All Layers Adhered over <i>Concrete Deck</i> (New or Existing)
C-AM-#	Assemblies with Adhered Membranes over Insulated <i>Concrete Deck</i> (New, Existing or <i>Recover</i>)
C-M-#	Mechanically Fastened Assemblies over <i>Concrete Deck</i> (New or Existing)
C-W-#	Induction Welded Assemblies over <i>Concrete Deck</i> (New or Existing)
CW-A-#	Assemblies with All Layers Adhered over Cementitious Wood Fiber Deck (New or Existing)
CW-AM-#	Assemblies with Adhered Membranes over Cementitious Wood Fiber Deck (New, Existing, or <i>Recover</i>)
G-A-#	Assemblies with All Layers Adhered over Gypsum Deck (New or Existing)
G-AM-#	Gypsum Deck Assemblies with Adhered Membranes (New or Existing)
LC-A-#	Lightweight Insulating Concrete Assemblies with All Layers Adhered over <i>Concrete Deck</i> (New or Existing)
LS-A-#	Lightweight Insulating Concrete Assemblies with All Layers Adhered over <i>Steel Deck</i> (New or Existing)
L-AM-#	Lightweight Insulating Concrete Assemblies with Adhered Membranes over <i>Steel Deck</i> or <i>Concrete Deck</i> (New or Existing)
L-M-#	Mechanically Fastened Lightweight Insulating Concrete Assemblies over <i>Steel Deck</i> or <i>Concrete Deck</i> (New or Existing)
R-A-#	<i>Recover</i> Assemblies with All Layers Adhered
R-AM-#	<i>Recover</i> Assemblies with Adhered Membranes
R-M-#	Mechanically Fastened <i>Recover</i> Assemblies
R-W-#	Induction Welded <i>Recover</i> Assemblies
S-A-#	Assemblies with All Layers Adhered over <i>Steel Deck</i> (New or Existing)
S-AM-#	Assemblies with Adhered Membranes over Insulated <i>Steel Deck</i> (New, Existing or <i>Recover</i>)
S-M-#	Mechanically Fastened Assemblies over <i>Steel Deck</i> (New or Existing)
S-W-#	Induction Welded Assemblies over <i>Steel Deck</i> (New or Existing)
W-A-#	Assemblies with All Layers Adhered over <i>Wood Deck</i> (New or Existing)
W-AM-#	Assemblies with Adhered Membranes over Insulated <i>Wood Deck</i> (New, Existing or <i>Recover</i>)
W-M-#	Mechanically Fastened Assemblies over <i>Wood Deck</i> (New or Existing)
W-W-#	Induction Welded Assemblies over <i>Wood Deck</i> (New or Existing)

APPENDIX B

Assemblies with All Layers Adhered over Concrete Deck (New or Existing)						
System No.	Vapor Barrier	Base Insulation	Top Insulation	Membrane	Membrane Attachment	MDP (psf)
C-A-1	WB V-Force	Min. 1.5-inch ISO Adhered in I.S.O. Stick Ribbons spaced 12-inch o.c.	-	EZ TPO	Membrane Adhesive V	-57.5 (Lim. 9)
C-A-2	WB V-Force	Min. 1.5-inch ISO Adhered in I.S.O. Stick Ribbons spaced 12-inch o.c.	-	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-57.5 (Lim. 9)
C-A-3	WB V-Force	Min. 1.5-inch ISO Adhered in I.S.O. Stick Ribbons spaced 12-inch o.c.	-	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; TJ-S or JB-SA	-57.5 (Lim. 9)
C-A-4	WB V-Force	Min. 1.5-inch ISO Adhered in I.S.O. IA or I.S.O. Spray R Insulation Adhesive ribbon adhered 12-inch o.c.	-	EZ TPO	Membrane Adhesive V	-97.5 (Lim. 9)
C-A-5	WB V-Force	Min. 1.5-inch ISO Adhered in I.S.O. IA or I.S.O. Spray R Insulation Adhesive ribbon adhered 12-inch o.c.	-	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-97.5 (Lim. 9)
C-A-6	WB V-Force	Min. 1.5-inch ISO Adhered in I.S.O. IA or I.S.O. Spray R Insulation Adhesive ribbon adhered 12-inch o.c.	-	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; TJ-S or JB-SA	-97.5 (Lim. 9)
C-A-7	APP 80 Glass Base torched adhered	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	SECUROCK installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	EZ TPO	Membrane Adhesive V	-112.5 (Lim. 9)
C-A-8	APP 80 Glass Base torched adhered	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	SECUROCK installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-112.5 (Lim. 9)
C-A-9	APP 80 Glass Base torched adhered	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	SECUROCK installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JB-SA	-112.5 (Lim. 9)
C-A-10	-	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	SECUROCK installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ TPO	Membrane Adhesive V	-112.5 (Lim. 9)
C-A-11	-	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	SECUROCK installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-112.5 (Lim. 9)

APPENDIX B

Assemblies with All Layers Adhered over Concrete Deck (New or Existing)						
System No.	Vapor Barrier	Base Insulation	Top Insulation	Membrane	Membrane Attachment	MDP (psf)
C-A-12	-	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	SECUROCK installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S, or JBSA	-112.5 (Lim. 9)
C-A-13	OPTIONAL APP 80 Glass Base torched adhered	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	DensDeck installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	EZ TPO	LVOC Bonding Adhesive	-112.5 (Lim. 9)
C-A-14	-	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	DensDeck installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ TPO	LVOC Bonding Adhesive	-112.5 (Lim. 9)
C-A-15	APP 80 Glass Base torched adhered	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	Min 0.5-inch ISO HD installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	EZ TPO	Membrane Adhesive V	-135 (Lim. 9)
C-A-16	APP 80 Glass Base torched adhered	Min. 1.5-inch ISO or ISO CG; I.S.O. IA ribbon adhered 12-inch o.c.	OPTIONAL Min. 1.5-inch ISO or ISO CG with Taper ISO or ISO CG I.S.O. IA or I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ FB TPO	JBSA; FB-S ribbon adhered 12-inch o.c.; or TJ-S over ISO CG only	-142.5 (Lim. 9)
C-A-17	-	ISO Insulation Adhesive VI ribbon adhered 12-inch o.c.	-	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-150 (Lim. 9)
C-A-18	WB V-Force	ISO Twin Jet ribbon adhered 12-inch o.c..	DensDeck Prime Twin Jet ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-150 (Lim. 9)
C-A-19	WB V-Force	ISO Twin Jet ribbon adhered 12-inch o.c..	DensDeck Prime Twin Jet ribbon adhered 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-150 (Lim. 9)
C-A-20	WB V-Force	ISO Twin Jet ribbon adhered 12-inch o.c..	DensDeck Prime Twin Jet ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S, TJ-R, or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA, PermaMop, FB-BA, TJ-S, or JBSA	-150 (Lim. 9)
C-A-21	-	ISO Insulation Adhesive VI ribbon adhered 12-inch o.c.	-	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.; or JBSA	-155.5 (Lim. 9)
C-A-22	-	OPTIONAL ISO Insulation Adhesive VI ribbon adhered 12-inch o.c.	DensDeck Prime Insulation Adhesive VI ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-163.5 (Lim. 9)
C-A-23	-	OPTIONAL ISO Insulation Adhesive VI ribbon adhered 12-inch o.c.	DensDeck Prime Insulation Adhesive VI ribbon adhered 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-163.5 (Lim. 9)

APPENDIX B

Assemblies with All Layers Adhered over Concrete Deck (New or Existing)						
System No.	Vapor Barrier	Base Insulation	Top Insulation	Membrane	Membrane Attachment	MDP (psf)
C-A-24	-	OPTIONAL ISO Insulation Adhesive VI ribbon adhered 12-inch o.c.	DensDeck Prime Insulation Adhesive VI ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JBSA	-163.5 (Lim. 9)
C-A-25	WB V-Force	ISO I.S.O. Spray R ribbon adhered 12-inch o.c.	DensDeck Prime I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-163.5 (Lim. 9)
C-A-26	WB V-Force	ISO I.S.O. Spray R ribbon adhered 12-inch o.c.	DensDeck Prime I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-163.5 (Lim. 9)
C-A-27	WB V-Force	ISO I.S.O. Spray R ribbon adhered 12-inch o.c.	DensDeck Prime I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JBSA	-163.5 (Lim. 9)
C-A-28	-	ISO Insulation Adhesive VI ribbon adhered 12-inch o.c.	SECUROCK Insulation Adhesive VII 12-inch o.c.	EZ TPO	Membrane Adhesive V	-175 (Lim. 9)
C-A-29	-	ISO Insulation Adhesive VI ribbon adhered 12-inch o.c.	SECUROCK Insulation Adhesive VII 12-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JBSA	-175 (Lim. 9)
C-A-30	-	ISO Insulation Adhesive VI ribbon adhered 12-inch o.c.	ISO HD Insulation Adhesive VIII ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-180 (Lim. 9)
C-A-31	-	ISO Insulation Adhesive VI ribbon adhered 12-inch o.c.	ISO HD Insulation Adhesive VIII ribbon adhered 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-180 (Lim. 9)
C-A-32	-	ISO Insulation Adhesive VI ribbon adhered 12-inch o.c.	ISO HD Insulation Adhesive VIII ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S, TJ-R, or I.S.O. Spray R ribbon adhered 12-inch o.c.; TJ-S or JBSA	-180 (Lim. 9)
C-A-34	-	Min. 1.5-inch ISO or ISO CG installed with Twin Jet or I.S.O. Stick applied in ribbons spaced 12-inch o.c.	-	EZ TPO	Membrane Adhesive V	-187.5 (Lim. 9)
C-A-35	-	Min. 1.5-inch ISO or ISO CG installed with Twin Jet or I.S.O. Stick applied in ribbons spaced 12-inch o.c.	-	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-187.5 (Lim. 9)

APPENDIX B

Assemblies with All Layers Adhered over Concrete Deck (New or Existing)						
System No.	Vapor Barrier	Base Insulation	Top Insulation	Membrane	Membrane Attachment	MDP (psf)
C-A-36	-	Min. 1.5-inch ISO or ISO CG installed with Twin Jet or I.S.O. Stick applied in ribbons spaced 12-inch o.c	-	EZ FB TPO	FB-S, or I.S.O. Spray R ribbon adhered 12-inch o.c.; or JBSA	-187.5 (Lim. 9)
C-A-37	-	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	DensDeck installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ TPO	TPO Bonding Adhesive or JBSA	-187.5 (Lim. 9)
C-A-38	-	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	OPTIONAL ISO HD or DensDeck Prime installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ TPO	Membrane Adhesive II	-187.5 (Lim. 9)
C-A-39	-	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	OPTIONAL ISO HD or DensDeck Prime installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-187.5 (Lim. 9)
C-A-40	-	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	OPTIONAL ISO HD installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.; JBSA	-187.5 (Lim. 9)
C-A-41	-	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	Min. 7/16-inch OSB installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ TPO	Membrane Adhesive II	-187.5 (Lim. 9; Non-HVHZ)
C-A-42	-	ISO Insulation Adhesive VI ribbon adhered 12-inch o.c.	ISO HD Insulation Adhesive III ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-195 (Lim. 9)
C-A-43	-	ISO Insulation Adhesive VI ribbon adhered 12-inch o.c.	ISO HD Insulation Adhesive III ribbon adhered 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-195 (Lim. 9)
C-A-44	-	ISO Insulation Adhesive VI ribbon adhered 12-inch o.c.	ISO HD Insulation Adhesive III ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.; JBSA	-195 (Lim. 9)
C-A-45	-	Min. 0.5-inch ISO installed with Twin Jet applied in ribbons spaced 12-inch o.c.	SECUROCK installed with Twin Jet applied in ribbons spaced 12-inch o.c.	EZ TPO	Membrane Adhesive V	-195 (Lim. 9)
C-A-46	-	Min. 0.5-inch ISO installed with Twin Jet applied in ribbons spaced 12-inch o.c.	SECUROCK installed with Twin Jet applied in ribbons spaced 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-195 (Lim. 9)

APPENDIX B

Assemblies with All Layers Adhered over Concrete Deck (New or Existing)						
System No.	Vapor Barrier	Base Insulation	Top Insulation	Membrane	Membrane Attachment	MDP (psf)
C-A-47	-	Min. 0.5-inch ISO installed with Twin Jet applied in ribbons spaced 12-inch o.c.	SECUROCK installed with Twin Jet applied in ribbons spaced 12-inch o.c.	EZ FB TPO	FB-S ribbon adhered 12-inch o.c.; PermaMop; JBSAor TJ-S	-195 (Lim. 9)
C-A-48	-	Min. 1.5-inch ISO; Twin Jet ribbon adhered 12-inch o.c.	DensDeck Prime; Twin Jet ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-195 (Lim. 9)
C-A-49	-	Min. 1.5-inch ISO; Twin Jet ribbon adhered 12-inch o.c.	DensDeck Prime; Twin Jet ribbon adhered 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-195 (Lim. 9)
C-A-50	-	Min. 1.5-inch ISO; Twin Jet ribbon adhered 12-inch o.c.	DensDeck Prime; Twin Jet ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA; JBSA,or TJ-S	-195 (Lim. 9)
C-A-51	-	-	-	EZ TPO	Membrane Adhesive	-205 (Lim. 9)
C-A-52	-	-	-	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-205 (Lim. 9)
C-A-53	-	Min. 1.5-inch ISO; I.S.O. Spray R ribbon adhered 12-inch o.c.	DensDeck Prime; I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-205 (Lim. 9)
C-A-54	-	Min. 1.5-inch ISO; I.S.O. Spray R ribbon adhered 12-inch o.c.	DensDeck Prime; I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-205 (Lim. 9)
C-A-55	-	Min. 1.5-inch ISO; I.S.O. Spray R ribbon adhered 12-inch o.c.	DensDeck Prime; I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-205 (Lim. 9)
C-A-56	V-Force	Tapered ISO installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c.	DensDeck Prime installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c.	EZ TPO	Membrane Adhesive V	-205 (Lim. 9)
C-A-57	V-Force	Tapered ISO installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c.	DensDeck Prime installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-205 (Lim. 9)
C-A-58	V-Force	Tapered ISO installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c.	DensDeck Prime installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c.	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.	-205 (Lim. 9)
C-A-59	APP 80 Glass Base torched adhered	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c.	Min 0.5-inch ISO HD installed with I.S.O. IA applied in ribbons spaced 12-inch o.c.	EZ TPO	Membrane Adhesive	-225 (Lim. 9)

APPENDIX B

Assemblies with All Layers Adhered over Concrete Deck (New or Existing)						
System No.	Vapor Barrier	Base Insulation	Top Insulation	Membrane	Membrane Attachment	MDP (psf)
C-A-60	OPTIONAL <i>V-Force</i>	Min. 0.5-inch ISO; I.S.O. Twin Pack Insulation Adhesive, I.S.O. Stick, or Twin Jet applied in ribbons spaced 12-inch o.c.	Min. 1-inch ISO; I.S.O. Stick or Twin Jet adhered 12-inch o.c.	<i>EZ TPO</i>	<i>Membrane Adhesive V</i>	-240 (Lim. 9)
C-A-61	OPTIONAL <i>V-Force</i>	Min. 0.5-inch ISO; I.S.O. Twin Pack Insulation Adhesive, I.S.O. Stick, or Twin Jet applied in ribbons spaced 12-inch o.c.	Min. 1-inch ISO; I.S.O. Stick or Twin Jet adhered 12-inch o.c.	<i>EZ TPO P&S HW (HVHZ ONLY)</i>	Self-adhered	-240 (Lim. 9)
C-A-62	OPTIONAL <i>V-Force</i>	Min. 0.5-inch ISO; I.S.O. Twin Pack Insulation Adhesive, I.S.O. Stick, or Twin Jet applied in ribbons spaced 12-inch o.c.	Min. 1-inch ISO; I.S.O. Stick or Twin Jet adhered 12-inch o.c.	<i>EZ FB TPO</i>	<i>FB-S</i> or I.S.O. Spray R ribbon adhered 12-inch o.c.; or <i>JBSA</i>	-240 (Lim. 9)
C-A-63	OPTIONAL APP 80 Glass Base torched adhered	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c.	<i>DensDeck</i> installed with I.S.O. IA applied in ribbons spaced 12-inch o.c.	<i>EZ TPO</i>	<i>TPO Bonding Adhesive</i> or <i>JBSA</i>	-247.5 (Lim. 9)
C-A-64	OPTIONAL APP 80 Glass Base torched adhered	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c.	OPTIONAL <i>DensDeck Prime</i> installed with I.S.O. IA applied in ribbons spaced 12-inch o.c.	<i>EZ TPO</i>	<i>Membrane Adhesive V</i>	-247.5 (Lim. 9)
C-A-65	APP 80 Glass Base torched adhered	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c.	OPTIONAL <i>DensDeck Prime</i> installed with I.S.O. IA applied in ribbons spaced 12-inch o.c.	<i>EZ TPO P&S HW (HVHZ ONLY)</i>	Self-adhered	-247.5 (Lim. 9)
C-A-66	-	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c.	OPTIONAL Min. 7/16-inch OSB installed with I.S.O. IA applied in ribbons spaced 12-inch o.c.	<i>EZ TPO</i>	<i>Membrane Adhesive II</i>	-247.5 (Lim. 9; Non- HVHZ)
C-A-67	OPTIONAL <i>V-Force</i> or 1-2 ply of Ply IV or VI in hot asphalt or APP 80 Glass Base, SBS Glass FR Torch, or SBS Poly Torch Base torch adhered	Min. 0.5-inch ISO installed with I.S.O. IA or I.S.O. Spray R applied in ribbons spaced 12-inch o.c.	-	<i>EZ TPO</i>	<i>Membrane Adhesive V</i>	-255 (Lim. 9)

APPENDIX B

Assemblies with All Layers Adhered over Concrete Deck (New or Existing)						
System No.	Vapor Barrier	Base Insulation	Top Insulation	Membrane	Membrane Attachment	MDP (psf)
C-A-68	OPTIONAL V-Force or 1-2 ply of Ply IV or VI in hot asphalt or APP 80 Glass Base, SBS Glass FR Torch, or SBS Poly Torch Base torch adhered	Min. 0.5-inch ISO installed with I.S.O. IA or I.S.O. Spray R applied in ribbons spaced 12-inch o.c.	-	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-255 (Lim. 9)
C-A-69	OPTIONAL V-Force or 1-2 ply of Ply IV or VI in hot asphalt or APP 80 Glass Base, SBS Glass FR Torch, or SBS Poly Torch Base torch adhered	Min. 0.5-inch ISO installed with I.S.O. IA or I.S.O. Spray R applied in ribbons spaced 12-inch o.c.	-	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c. or JBSA	-255 (Lim. 9)
C-A-70	OPTIONAL V-Force	Min. 1.5-inch ISO; I.S.O. IA or I.S.O. Stick applied in ribbons spaced 12-inch o.c.	OPTIONAL Min. 1-inch ISO; I.S.O. Stick adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-255 (Lim. 9)
C-A-71	OPTIONAL V-Force	Min. 1.5-inch ISO; I.S.O. IA or I.S.O. Stick applied in ribbons spaced 12-inch o.c.	OPTIONAL Min. 1-inch ISO; I.S.O. Stick adhered 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-255 (Lim. 9)
C-A-72	OPTIONAL V-Force	Min. 1.5-inch ISO; I.S.O. IA or I.S.O. Stick applied in ribbons spaced 12-inch o.c.	OPTIONAL Min. 1-inch ISO; I.S.O. Stick adhered 12-inch o.c.	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c. or JBSA	-255 (Lim. 9)
C-A-73	V-Force	Tapered ISO installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c.	ISO HD installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c.	EZ TPO	Membrane Adhesive II	-262.5 (Lim. 9)
C-A-74	V-Force	Tapered ISO installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c.	ISO HD installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-262.5 (Lim. 9)
C-A-75	V-Force	Tapered ISO installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c.	ISO HD installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c.	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c. or JBSA	-262.5 (Lim. 9)

APPENDIX B

Assemblies with All Layers Adhered over Concrete Deck (New or Existing)						
System No.	Vapor Barrier	Base Insulation	Top Insulation	Membrane	Membrane Attachment	MDP (psf)
C-A-76	OPTIONAL V-Force or 1-2 ply of Ply IV or VI in hot asphalt or APP 80 Glass Base, SBS Glass FR Torch, or SBS Poly Torch Base torch adhered	Min. 0.5-inch ISO installed with I.S.O. IA or I.S.O. Spray R applied in ribbons spaced 12-inch o.c.	ISO HD installed with I.S.O. IA or I.S.O. Spray R applied in ribbons spaced 12-inch o.c.	EZ TPO	Membrane Adhesive II	-262.5 (Lim. 9)
C-A-77	OPTIONAL V-Force or 1-2 ply of Ply IV or VI in hot asphalt or APP 80 Glass Base, SBS Glass FR Torch, or SBS Poly Torch Base torch adhered	Min. 0.5-inch ISO installed with I.S.O. IA or I.S.O. Spray R applied in ribbons spaced 12-inch o.c.	ISO HD or DensDeck Prime installed with I.S.O. IA or I.S.O. Spray R applied in ribbons spaced 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-262.5 (Lim. 9)
C-A-78	OPTIONAL V-Force or 1-2 ply of Ply IV or VI in hot asphalt or APP 80 Glass Base, SBS Glass FR Torch, or SBS Poly Torch Base torch adhered	Min. 0.5-inch ISO installed with I.S.O. IA or I.S.O. Spray R applied in ribbons spaced 12-inch o.c.	ISO HD installed with I.S.O. IA or I.S.O. Spray R applied in ribbons spaced 12-inch o.c.	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.	-262.5 (Lim. 9)
C-A-79	APP 80 Glass Base torched adhered	Min. 0.5-inch ISO installed with I.S.O. IA applied in ribbons spaced 12-inch o.c.	Min 0.5-inch ISO HD installed with I.S.O. IA applied in ribbons spaced 12-inch o.c.	EZ TPO	Membrane Adhesive II	-277.5 (Lim. 9)
C-A-80	APP 80 Glass Base torched adhered	Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c.	OPTIONAL Min 0.5-inch ISO HD installed with I.S.O. IA applied in ribbons spaced 12-inch o.c.	EZ TPO	LVOC Bonding Adhesive or TPO Bonding Adhesive	-277.5 (Lim. 9)
C-A-81	APP 80 Glass Base torched adhered	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c.	OPTIONAL Min 0.5-inch ISO HD installed with I.S.O. IA applied in ribbons spaced 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-277.5 (Lim. 9)
C-A-82	-	-	ISO HD Insulation Adhesive II ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c. or JBSA	-285 (Lim. 9)
C-A-83	-	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c.	Min 0.5-inch ISO HD installed with I.S.O. IA applied in ribbons spaced 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-300 (Lim. 9)

APPENDIX B

Assemblies with All Layers Adhered over Concrete Deck (New or Existing)						
System No.	Vapor Barrier	Base Insulation	Top Insulation	Membrane	Membrane Attachment	MDP (psf)
C-A-84	-	Min. 0.5-inch ISO installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	-	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-337.5 (Lim. 9)
C-A-85	-	ISO Insulation Adhesive ribbon adhered 6-inch o.c.	SECUROCK I.S.O. Stick or I.S.O. Spray R ribbon adhered 6-inch o.c.	EZ TPO	Membrane Adhesive V	-347.5 (Lim. 9)
C-A-86	-	ISO Insulation Adhesive ribbon adhered 6-inch o.c.	SECUROCK I.S.O. Stick ribbon or I.S.O. Spray R adhered 6-inch o.c.	EZ FB TPO	FB-S ribbon adhered 12-inch o.c.; FB-BA; PermaMop; HA	-347.5 (Lim. 9)
C-A-87	OPTIONAL V-Force or 1-2 ply of Ply IV or VI in hot asphalt or APP 80 Glass Base, SBS Glass FR Torch, or SBS Poly Torch Base torch adhered	Min. 0.5-inch ISO installed with I.S.O. IA or I.S.O. Spray R applied in ribbons spaced 12-inch o.c.	SECUROCK installed with I.S.O. IA or I.S.O. Spray R applied in ribbons spaced 12-inch o.c.	EZ TPO	TPO Bonding Adhesive or JBSA	-347.5 (Lim. 9)
C-A-88	OPTIONAL V-Force or 1-2 ply of Ply IV or VI in hot asphalt or APP 80 Glass Base, SBS Glass FR Torch, or SBS Poly Torch Base torch adhered	Min. 0.5-inch ISO installed with I.S.O. IA or I.S.O. Spray R applied in ribbons spaced 12-inch o.c.	SECUROCK installed with I.S.O. IA or I.S.O. Spray R applied in ribbons spaced 12-inch o.c.	EZ FB TPO	FB-S ribbon adhered 12-inch o.c.; PermaMop	-347.5 (Lim. 9)
C-A-89	OPTIONAL VB	OPTIONAL Min. 1-inch ISO; I.S.O. Spray R ribbon adhered 12-inch o.c.	DensDeck Prime; I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ FB TPO	I.S.O. Spray R ribbon adhered 4-inch o.c.	-360 (Lim. 9)
C-A-90	-	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	Min 0.5-inch ISO HD installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	EZ TPO	Membrane Adhesive II	-360 (Lim. 9)
C-A-91	-	Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	-	EZ TPO	TPO Bonding Adhesive, LVOC Bonding Adhesive or JBSA	-360 (Lim. 9)
C-A-92	-	Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	-	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-360 (Lim. 9)

APPENDIX B

Assemblies with All Layers Adhered over Concrete Deck (New or Existing)						
System No.	Vapor Barrier	Base Insulation	Top Insulation	Membrane	Membrane Attachment	MDP (psf)
C-A-93	V-Force or 1-2 ply of Ply IV or VI in hot asphalt or APP 80 Glass Base, SBS Glass FR Torch, or SBS Poly Torch Base torch adhered	Min. 0.5-inch ISO installed with I.S.O. IA or I.S.O. Spray R applied in ribbons spaced 12-inch o.c.	SECUROCK installed with I.S.O. IA or I.S.O. Spray R applied in ribbons spaced 12-inch o.c.	EZ TPO	TPO Bonding Adhesive	-400 (Lim. 9)
C-A-94	V-Force or 1-2 ply of Ply IV or VI in hot asphalt or APP 80 Glass Base, SBS Glass FR Torch, or SBS Poly Torch Base torch adhered	Min. 0.5-inch ISO installed with I.S.O. IA or I.S.O. Spray R applied in ribbons spaced 12-inch o.c.	SECUROCK installed with I.S.O. IA or I.S.O. Spray R applied in ribbons spaced 12-inch o.c.	EZ FB TPO	FB-S ribbon adhered 12-inch o.c.; PermaMop	-400 (Lim. 9)
C-A-95	-	SECUROCK I.S.O. Spray R ribbon adhered 12-inch o.c.	-	EZ TPO	TPO Bonding Adhesive	-435 (Lim. 9)
C-A-96	-	SECUROCK I.S.O. Spray R ribbon adhered 12-inch o.c.	-	EZ FB TPO	FB-S ribbon adhered 12-inch o.c.; PermaMop	-435 (Lim. 9)
C-A-97	-	SECUROCK Insulation Adhesive ribbon adhered 12-inch o.c.	-	EZ FB TPO	FB-S ribbon adhered 12-inch o.c.; PermaMop	-445 (Lim. 9)
C-A-98	-	-	ISO HD Insulation Adhesive II ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-445 (Lim. 9)
C-A-99	-	-	ISO HD Insulation Adhesive II ribbon adhered 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-445 (Lim. 9)
C-A-100	V-Force or 1-2 ply of Ply IV or VI in hot asphalt or APP 80 Glass Base, SBS Glass FR Torch, or SBS Poly Torch Base torch adhered	Min. 0.5-inch ISO installed with I.S.O. IA or I.S.O. Spray R applied in ribbons spaced 12-inch o.c.	SECUROCK installed with I.S.O. IA or I.S.O. Spray R applied in ribbons spaced 12-inch o.c.	EZ TPO	TPO Bonding Adhesive	-495 (Lim. 9)
C-A-101	-	SECUROCK Insulation Adhesive ribbon adhered 12-inch o.c.	-	EZ TPO	TPO Bonding Adhesive	-495 (Lim. 9)

APPENDIX B

Assemblies with All Layers Adhered over Concrete Deck (New or Existing)						
System No.	Vapor Barrier	Base Insulation	Top Insulation	Membrane	Membrane Attachment	MDP (psf)
C-A-102	-	-	-	EZ FB TPO	TJ-S	-502.5 (Lim. 9)

Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing or Recover)							
System No.	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
C-AM-1	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	0.5-inch DensDeck Prime	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 10 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive V	-30 (Lim. 7; Non-HVHZ)
C-AM-3	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	0.5-inch DensDeck Prime	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 10 per 4 ft. x 8 ft. board	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JBSA	-30 (Lim. 7; Non-HVHZ)
C-AM-4	Min. 0.5-inch ISO	Preliminarily Secured or secured with top layer	SBS PolyBase	HD Fasteners & Plates or CD Fasteners & Plates secured 12-inch o.c. within the 3-3/8" welded lap	EZ FB TPO	I.S.O. Spray R ribbon adhered 12-inch o.c.	-37.5 (Lim. 7; Non-HVHZ)
C-AM-5	Min. 0.5-inch Insulation	Preliminarily Secured or Secured with Top Layer	MB Base, SBS Base, or Channel Venting Base	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 12-inch o.c. at the lap and 12-inch o.c. in two staggered, intermediate rows	EZ FB TPO	HA or PermaMop	-45 (Lim. 7; Non-HVHZ)
C-AM-6	Min. 0.5-inch Insulation	Preliminarily Secured or Secured with Top Layer	SBS Base 3.4-inch side laps	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 12-inch o.c. at the lap and 12-inch o.c. in two staggered, intermediate rows	EZ FB TPO	FB-S or I.S.O. Spray R Ribbons spaced 12" o.c. and located directly over the base sheet fastener rows	-45 (Lim. 7; Non-HVHZ)
C-AM-7	OPTIONAL Insulation	Preliminarily Secured or Secured with Top Layer	SECUROCK	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive V	-45 (Lim. 7)
C-AM-8	OPTIONAL Insulation	Preliminarily Secured or Secured with Top Layer	SECUROCK	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-45 (Lim. 7)

APPENDIX B

Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing or Recover)							
System No.	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
C-AM-9	OPTIONAL Insulation	Preliminarily Secured or Secured with Top Layer	SECUROCK	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JBSA	-45 (Lim. 7)
C-AM-10	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 12 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive V	-45 (Lim. 7; Non-HVHZ)
C-AM-11	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 12 per 4 ft. x 8 ft. board	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JBSA	-45 (Lim. 7; Non-HVHZ)
C-AM-12	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 8 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive V	-45 (Lim. 7; Non-HVHZ)
C-AM-13	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 8 per 4 ft. x 8 ft. board	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JBSA	-45 (Lim. 7; Non-HVHZ)
C-AM-14	OPTIONAL Insulation	Preliminarily Secured or Secured with Top Layer	Min. 2-inch ISO	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 12 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive V	-45 (Lim. 7)
C-AM-15	OPTIONAL Insulation	Preliminarily Secured or Secured with Top Layer	Min. 2-inch ISO	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 12 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-45 (Lim. 7)
C-AM-16	DensDeck Prime	CD Fasteners & Plates or HD Fasteners & Insulation Plates secured 8 per 4 ft x 8 ft board followed by V-Force	Min. 1.5-inch ISO or Tapered ISO with ISO HD or DensDeck Prime	I.S.O. Stick or Twin Jet applied in ribbons spaced 12-inch o.c.	EZ TPO	Membrane Adhesive V	-45 (Lim. 7; Non-HVHZ)
C-AM-17	DensDeck Prime	CD Fasteners & Plates or HD Fasteners & Insulation Plates secured 8 per 4 ft x 8 ft board followed by V-Force	Min. 1.5-inch ISO or Tapered ISO with ISO HD or DensDeck Prime	I.S.O. Stick or Twin Jet applied in ribbons spaced 12-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c., TJ-S or JBSA	-45 (Lim. 7; Non-HVHZ)

APPENDIX B

Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing or Recover)							
System No.	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
C-AM-18	OPTIONAL Insulation	Preliminarily Secured or Secured with Top Layer	Min. 1-inch ISO CG	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 20 per 4 ft. x 8 ft. board (Alt. Pattern)	EZ TPO	TPO Bonding Adhesive or JBSA	-52.5 (Lim. 7)
C-AM-19	OPTIONAL Insulation	Preliminarily Secured or Secured with Top Layer	Min. 1-inch ISO CG	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 20 per 4 ft. x 8 ft. board (Alt. Pattern)	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-52.5 (Lim. 7)
C-AM-20	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck Prime	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive V	-52.5 (Lim. 7)
C-AM-21	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck Prime	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-52.5 (Lim. 7)
C-AM-22	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck Prime	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	EZ FB TPO	FB-BA, PermaMop; HA or TJ-S	-52.5 (Lim. 7)
C-AM-23	OPTIONAL Insulation	Preliminarily Secured or Secured with Top Layer	Min. 1.5-inch ISO	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive IV	-60 (Lim. 7)
C-AM-24	OPTIONAL Insulation	Preliminarily Secured or Secured with Top Layer	Min. 1.5-inch ISO	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-60 (Lim. 7)
C-AM-25	OPTIONAL Insulation	Preliminarily Secured or Secured with Top Layer	Min. 0.5-inch SECUROCK	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive IV	-60 (Lim. 7)
C-AM-26	OPTIONAL Insulation	Preliminarily Secured or Secured with Top Layer	Min. 0.5-inch SECUROCK	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-60 (Lim. 7)
C-AM-27	OPTIONAL Insulation	Preliminarily Secured or Secured with Top Layer	Min. 0.5-inch SECUROCK	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	EZ FB TPO	FB-BA, PermaMop; HA or TJ-S	-60 (Lim. 7)
C-AM-28	Min. 1.5-inch ISO	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	Min. 1.5-inch ISO HD-C	Insulation Adhesive VII Ribbons spaced 12-inch o.c.	EZ TPO	TPO Bonding Adhesive or JBSA	-60 (Lim. 7)

APPENDIX B

Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing or Recover)							
System No.	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
C-AM-29	Min. 1.5-inch ISO	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	Min. 1.5-inch ISO HD-C	Insulation Adhesive VII Ribbons spaced 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-60 (Lim. 7)
C-AM-30	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 15 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive IV	-60 (Lim. 7)
C-AM-31	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 15 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-60 (Lim. 7)
C-AM-32	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 15 per 4 ft. x 8 ft. board	EZ FB TPO	FB-BA, PermaMop; HA; or TJ-S	-60 (Lim. 7)
C-AM-33	Min. 2-inch ISO or ISO CG	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	Min. 0.5-inch ISO or ISO CG followed by ISO HD	Insulation Adhesive VI Ribbons spaced 6-inch o.c.	EZ TPO	Membrane Adhesive V	-60 (Lim. 7)
C-AM-34	Min. 2-inch ISO or ISO CG	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	Min. 0.5-inch ISO or ISO CG followed by ISO HD	Insulation Adhesive VI Ribbons spaced 6-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-60 (Lim. 7)
C-AM-35	Min. 2-inch ISO or ISO CG	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	Min. 0.5-inch ISO or ISO CG followed by ISO HD	Insulation Adhesive VI Ribbons spaced 6-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; TJ-S or JBSA	-60 (Lim. 7)
C-AM-36	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 8 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive IV	-62.5 (Lim. 9)
C-AM-37	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 8 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-62.5 (Lim. 9)

APPENDIX B

Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing or Recover)							
System No.	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
C-AM-38	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 8 per 4 ft. x 8 ft. board	EZ FB TPO	FB-BA, PermaMop; HA or TJ-S	-62.5 (Lim. 9)
C-AM-39	Min. 2-inch ISO or ISO CG	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	ISO HD	Insulation Adhesive VI Ribbons spaced 6-inch o.c.	EZ TPO	Membrane Adhesive V	-67.5 (Lim. 7)
C-AM-40	Min. 2-inch ISO or ISO CG	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	ISO HD	Insulation Adhesive VI Ribbons spaced 6-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-67.5 (Lim. 7)
C-AM-41	Min. 2-inch ISO or ISO CG	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	ISO HD	Insulation Adhesive VI Ribbons spaced 6-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c., TJ-S or JBSA	-67.5 (Lim. 7)
C-AM-42	Min. 2-inch ISO	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	SECUROCK	Insulation Adhesive VII Ribbons spaced 6-inch o.c.	EZ TPO	Membrane Adhesive IV	-67.5 (Lim. 7)
C-AM-43	Min. 2-inch ISO	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	SECUROCK	Insulation Adhesive VII Ribbons spaced 6-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-67.5 (Lim. 7)
C-AM-44	Min. 2-inch ISO	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	SECUROCK	Insulation Adhesive VII Ribbons spaced 6-inch o.c.	EZ FB TPO	FB-BA, PermaMop; HA or TJ-S	-67.5 (Lim. 7)

APPENDIX B

Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing or Recover)							
System No.	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
C-AM-45	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 20 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive IV	-67.5 (Lim. 7)
C-AM-46	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 20 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-67.5 (Lim. 7)
C-AM-47	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 20 per 4 ft. x 8 ft. board	EZ FB TPO	FB-BA, PermaMop; HA or TJ-S	-67.5 (Lim. 7)
C-AM-48	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISO HD-C	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 15 per 4 ft. x 8 ft. board	EZ TPO	TPO Bonding Adhesive or JBSA	-67.5 (Lim. 7)
C-AM-49	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISO HD-C	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 15 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-67.5 (Lim. 7)
C-AM-50	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive III	-67.5 (Lim. 7)
C-AM-51	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-67.5 (Lim. 7)
C-AM-52	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	EZ FB TPO	FB-S or TJ-R ribbon adhered 4-inch o.c.; TJ-S or JBSA	-67.5 (Lim. 7)
C-AM-53	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISO HD-C	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO	TPO Bonding Adhesive or JBSA	-75 (Lim. 7)
C-AM-54	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISO HD-C	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-75 (Lim. 7)
C-AM-55	OPTIONAL Insulation	Preliminarily Secured or Secured with Top Layer	Min. 2-inch ISO	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 20 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive IV	-75 (Lim. 7)
C-AM-56	OPTIONAL Insulation	Preliminarily Secured or Secured with Top Layer	Min. 2-inch ISO	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 20 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-75 (Lim. 7)
C-AM-57	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 20 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive III	-75 (Lim. 7)

APPENDIX B

Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing or Recover)							
System No.	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
C-AM-58	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 20 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-75 (Lim. 7)
C-AM-59	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 20 per 4 ft. x 8 ft. board	EZ FB TPO	FB-S or TJ-R ribbon adhered 4-inch o.c., or TJ-S	-75 (Lim. 7)
C-AM-60	Min. 2-inch ISO	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 20 per 4 ft. x 8 ft. board	ISO HD	I.S.O. Stick, I.S.O. Spray R, I.S.O. IA or Twin Jet ribbon adhered 6-inch o.c.	EZ FB TPO	FB-S or TJ-R ribbon adhered 6-inch o.c.; or TJ-S	-82.5 (Lim. 7)
C-AM-61	OPTIONAL Insulation	Preliminarily Secured or Secured with Top Layer	Min. 0.5-inch SECUROCK	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive IV	-82.5 (Lim. 7)
C-AM-62	OPTIONAL Insulation	Preliminarily Secured or Secured with Top Layer	Min. 0.5-inch SECUROCK	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-82.5 (Lim. 7)
C-AM-63	OPTIONAL Insulation	Preliminarily Secured or Secured with Top Layer	Min. 1.5-inch ISO	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 24 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive	-90 (Lim. 7)
C-AM-64	OPTIONAL Insulation	Preliminarily Secured or Secured with Top Layer	Min. 1.5-inch ISO	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 24 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-90 (Lim. 7)

Mechanically Fastened Assemblies over Concrete Deck (New or Existing)							
System No.	Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	MDP (psf)
C-M-1	-	OPTIONAL Insulation	Preliminarily Secured or Secured with Top Layer	OPTIONAL Cover Board	Preliminarily Secured	EZ TPO (120-inch wide)	-30 (Lim. 7; Non-HVHZ)
C-M-2	V-Force Vapor Barrier Membrane installed as Air Barrier	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 2-inch ISO, ISO CG or ISOGARD HD Composite	HD Fasteners & Insulation Plates secured 6 per 4-ft x 8-ft board	EZ TPO (148-inch wide)	-37.5 (Lim. 7; Non-HVHZ)

APPENDIX B

Mechanically Fastened Assemblies over Concrete Deck (New or Existing)								
System No.	Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
C-M-3	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	EZ TPO	UltraPly QuickSeam R.M.A Strip attached 72-inch o.c. and secured with Polymer Batten Strip and Heavy-Duty fasteners spaced 12-inch o.c. along the batten	-37.5 (Lim. 7; Non-HVHZ)
C-M-4	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	Min. 60 mil EZ TPO (120-inch wide)	Attached in-lap 12-inch o.c. with HD Fasteners & Plates or CD Fasteners & Plates; Side laps spaced 114-inch o.c.	-37.5 (Lim. 7; Non-HVHZ)
C-M-5	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	EZ TPO	UltraPly QuickSeam R.M.A Strip attached 114-inch o.c. and secured with HD Fasteners & Plates or CD Fasteners & Plates spaced 12-inch o.c.	-37.5 (Lim. 7; Non-HVHZ)
C-M-6	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	EZ TPO (48-inch wide)	Attached in-lap 24-inch o.c. with HD Fasteners & Plates or CD Fasteners & Plates; Fastener rows 42-inch o.c.	-45 (Lim. 7; Non-HVHZ)
C-M-7	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	EZ TPO	UltraPly QuickSeam R.M.A Strip attached 48-inch o.c. and secured with HD Fasteners & Plates or CD Fasteners & Plates spaced 24-inch o.c.	-45 (Lim. 7; Non-HVHZ)
C-M-8	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	EZ TPO	UltraPly QuickSeam R.M.A Strip attached 48-inch o.c. and secured with Polymer Batten Strip and Heavy-Duty fasteners spaced 24-inch o.c. along the batten	-45 (Lim. 7; Non-HVHZ)

APPENDIX B

Mechanically Fastened Assemblies over Concrete Deck (New or Existing)								
System No.	Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
C-M-9	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	EZ TPO (120-inch wide)	Attached in-lap 12-inch o.c. with <i>HD Fasteners & Plates</i> or <i>CD Fasteners & Plates</i> ; Fastener rows spaced 114-inch o.c.; UltraPly QuickSeam R.M.A Strip attached evenly spaced between side laps and secured with Polymer Batten Strip and Heavy-Duty fasteners spaced 12-inch o.c. along the batten	-45 (Lim. 7)
C-M-10	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	EZ TPO	UltraPly QuickSeam R.M.A Strip attached 72-inch o.c. and secured with <i>HD Fasteners & Plates</i> or <i>CD Fasteners & Plates</i> spaced 12-inch o.c.	-45 (Lim. 7)
C-M-11	V-Force Vapor Barrier Membrane installed as <i>Air Barrier</i>	OPTIONAL Insulation	<i>Preliminarily Secured</i> or Secured with Top Layer	Min. 3-inch ISO, ISO CG or ISOGARD HD Composite	<i>HD Fasteners & Insulation Plates</i> fasteners secured 8 per 4-ft x 8-ft board	EZ TPO (120-inch wide)	Attached in-lap 12-inch o.c. with <i>HD Fasteners & Plates</i> ; Side laps spaced 114-inch o.c.	-45 (Lim. 7)
C-M-12	<i>DensDeck Prime</i> loose-laid with V-Force Vapor Barrier Membrane installed as <i>Air Barrier</i>	OPTIONAL Insulation	<i>Preliminarily Secured</i> or Secured with Top Layer	Min. 2-inch ISO, ISO CG or ISOGARD HD Composite	<i>CD Fasteners & Insulation Plates</i> or <i>HD Fasteners & Insulation Plates</i> secured min. 8 per 4-ft x 8-ft board	EZ TPO (120-inch wide)	Attached in-lap 12-inch o.c. with <i>HD Fasteners & Plates</i> ; Fastener rows 114-inch o.c.	-45 (Lim. 7)
C-M-13	V-Force Vapor Barrier Membrane installed as <i>Air Barrier</i> adhered over loose-laid <i>SECUROCK</i>	OPTIONAL Insulation	<i>Preliminarily Secured</i> or secured with top layer	Min. 3-inch ISO 95-GL, ISO CG, or ISO HD-C	<i>HD Fasteners & Insulation Plates</i> fasteners secured 8 per 4 ft. x 8 ft. board	EZ TPO (120-inch wide)	Attached in-lap 12-inch o.c. with <i>HD Fasteners & Plates</i> ; Side laps spaced 114-inch o.c.	-52.5 (Lim. 7)

APPENDIX B

Mechanically Fastened Assemblies over Concrete Deck (New or Existing)								
System No.	Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
C-M-14	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured or Secured with Top Layer</i>	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	<i>EZ TPO</i> (148-inch wide)	Attached in-lap 6-inch o.c. with <i>HD Fasteners & Plates</i> ; Fastener rows 142-inch o.c.	-52.5 (Lim. 7)
C-M-15	-	Insulation	<i>Preliminarily Secured or secured with top layer</i>	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	<i>EZ TPO</i> (96-inch wide)	Attached in-lap 6-inch o.c. with <i>HD Fasteners & Plates</i> ; Fastener rows 90-inch o.c.	-52.5 (Lim. 7)
C-M-16	-	Min. 0.5-inch Insulation	<i>Preliminarily Secured or secured with top layer</i>	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	<i>EZ TPO</i> (120-inch wide)	Attached in-lap 6-inch o.c. with <i>HD Fasteners & Plates</i> or <i>CD Fasteners & Plates</i> ; Fastener rows 114-inch o.c.	-52.5 (Lim. 7)
C-M-17	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured or secured with top layer</i>	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	Min. 60 mil <i>EZ TPO</i> (60-inch wide)	Attached in-lap 12-inch o.c. with <i>HD Fasteners & Plates</i> or <i>CD Fasteners & Plates</i> ; Fastener rows 54-inch o.c.	-52.5 (Lim. 7)
C-M-18	-	Min. 0.5-inch Insulation	<i>Preliminarily Secured or secured with top layer</i>	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	<i>EZ TPO</i> (96-inch wide)	Attached in-lap 6-inch o.c. with <i>HD Fasteners & Plates</i> or <i>CD Fasteners & Plates</i> ; Fastener rows 89-inch o.c.; 7-inch wide side laps	-60 (Lim. 7)
C-M-19	-	Min. 0.5-inch Insulation	<i>Preliminarily Secured or secured with top layer</i>	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	Min. 60 mil <i>EZ TPO</i> (120-inch wide)	Attached in-lap 6-inch o.c. with <i>HD Fasteners & Plates</i> or <i>CD Fasteners & Plates</i> ; Fastener rows 114-inch o.c.	-60 (Lim. 7)
C-M-20	6 mil polyethylene sheet; 6-inch wide laps sealed with duct tape	Min. 2-inch Insulation	<i>CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 8 per 4 ft. x 8 ft. board</i>	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	<i>EZ TPO</i> (96-inch wide)	Attached in-lap 6-inch o.c. <i>HD Fasteners & Plates</i> or <i>CD Fasteners & Plates</i> ; Fastener rows 89-inch o.c.	-67.5 (Lim. 7)
C-M-21	-	Min. 0.5-inch Insulation	<i>Preliminarily Secured or secured with top layer</i>	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	<i>EZ TPO</i> (120-inch wide)	Attached in-lap 6-inch o.c. with Heavy-Duty Fasteners and Coiled Metal Batten Bar; Fastener rows 114-inch o.c.; Min. 5-inch wide heat weld encapsulating batten and fasteners	-75 (Lim. 7)

APPENDIX B

Mechanically Fastened Assemblies over Concrete Deck (New or Existing)								
System No.	Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
C-M-22	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured or Secured with Top Layer</i>	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	EZ TPO (74-inch wide)	Heavy Duty Fasteners and 0.75" Polymer Batten Strips centered in-lap and fastened 6-inch o.c.; Fastener rows 68-inch o.c.; Min. 5-inch wide heat weld encapsulating plates and fasteners	-82.5 (Lim. 7)
C-M-23	(2) layers of V-Force Vapor Barrier Membrane installed as Air Barrier	OPTIONAL Insulation	<i>Preliminarily Secured or Secured with Top Layer</i>	Min. 3-inch ISO, ISO CG or ISOGARD HD Composite	HD Fasteners & Insulation Plates secured 6 per 4-ft x 8-ft board	EZ TPO (148-inch wide)	Attached in-lap 12-inch o.c. with HD Fasteners & Plates; Side laps spaced 142-inch o.c.	-82.5 (Lim. 7)

Induction Welded Assemblies over Concrete Deck (New or Existing)								
System No.	Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
C-W-1	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured or secured with top layer</i>	OPTIONAL Cover Board	<i>Invisiweld-S</i> fastened at a rate of 6 per 4 ft. x 8 ft. board; Plate pattern offset 12-inches from each adjacent row of insulation boards	EZ TPO	Induction welded to Invisiweld-S plates	-37.5 (Lim. 7 Non-HVHZ)
C-W-2	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured or secured with top layer</i>	OPTIONAL Cover Board	<i>Invisiweld-S II</i> fastened 12-inch o.c. in rows 5-ft o.c.	EZ TPO	Induction welded to Invisiweld-S plates	-37.5 (Lim. 7 Non-HVHZ)
C-W-3	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured or secured with top layer</i>	OPTIONAL Cover Board	<i>Invisiweld-S</i> fastened at a rate of 8 per 4 ft. x 8 ft. board; Plate pattern offset 12-inches from each adjacent row of insulation boards	EZ TPO	Induction welded to Invisiweld-S plates	-45 (Lim. 7)
C-W-4	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured or secured with top layer</i>	OPTIONAL Cover Board	<i>Invisiweld-S II</i> fastened at a rate of 1 fastener per 6 ft ² in a staggered, 2 ft x 3 ft grid	EZ TPO	Induction welded to Invisiweld-S plates	-45 (Lim. 7; Non-HVHZ)

APPENDIX B

Induction Welded Assemblies over <i>Concrete Deck</i> (New or Existing)								
System No.	Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
C-W-5	-	Min. 1.5-inch <i>Insulation</i>	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL <i>Cover Board</i>	<i>InvisiWeld</i> fastened at a rate of 6 per 4 ft. x 8 ft. board; Plate pattern offset 12-inches from each adjacent row of insulation boards	<i>EZ TPO</i>	Induction welded to InvisiWeld plates	-45 (Lim. 7; Non-HVHZ)
C-W-6	-	<i>Insulation</i>	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL <i>Cover Board</i>	<i>InvisiWeld</i> fastened at a rate of 8 per 4 ft. x 8 ft. board	<i>EZ TPO</i>	Induction welded to InvisiWeld plates	-45 (Lim. 7)
C-W-7	V-Force Vapor Barrier Membrane installed as <i>Air Barrier</i>	OPTIONAL <i>Insulation</i>	<i>Preliminarily Secured</i> or secured with top layer	Min. 2.5-inch ISO 95-GL, ISO CG or ISO HD-C	<i>InvisiWeld</i> fastened at a rate of 8 per 4 ft. x 8 ft. board	<i>EZ TPO</i>	Induction welded to InvisiWeld plates	-52.5 (Lim. 7)
C-W-8	V-Force Vapor Barrier Membrane installed as <i>Air Barrier</i> adhered over loose-laid SECUROCK	OPTIONAL <i>Insulation</i>	<i>Preliminarily Secured</i> or secured with top layer	Min. 2.5-inch ISO 95-GL, ISO CG or ISO HD-C	<i>InvisiWeld</i> fastened at a rate of 8 per 4 ft. x 8 ft. board	<i>EZ TPO</i>	Induction welded to InvisiWeld plates	-52.5 (Lim. 7)
C-W-9	-	Min. 1.5-inch <i>Insulation</i>	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL <i>Cover Board</i>	<i>InvisiWeld</i> fastened at a rate of 8 per 4 ft. x 8 ft. board; Plate pattern offset 12-inches from each adjacent row of insulation boards	<i>EZ TPO</i>	Induction welded to InvisiWeld plates	-60 (Lim. 7)
C-W-10	-	Min. 1.5-inch <i>Insulation</i>	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL <i>Cover Board</i>	<i>Invisiweld-S II</i> fastened at a rate of 1 fastener per 4 ft ² in a staggered 2 ft x 2 ft grid	<i>EZ TPO</i>	Induction welded to Invisiweld-S plates	-60 (Lim. 7)
C-W-11	-	Min. 1-inch <i>Insulation</i>	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL <i>Cover Board</i>	<i>InvisiWeld</i> fastened 6-inch o.c. in rows 144-inch o.c.	<i>EZ TPO</i>	Induction welded to InvisiWeld plates	-60 (Lim. 7)

APPENDIX B

Induction Welded Assemblies over Concrete Deck (New or Existing)								
System No.	Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
C-W-12	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Invisiweld-S fastened at a rate of 10 per 4 ft. x 8 ft. board; Plate pattern offset 12-inches from each adjacent row of insulation boards	EZ TPO	Induction welded to Invisiweld-S plates	-75 (Lim. 7)
C-W-13	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	InvisiWeld fastened at a rate of 12 per 4 ft. x 8 ft. board; Plate pattern offset 12-inches from each adjacent row of insulation boards	EZ TPO	Induction welded to InvisiWeld plates	-75 (Lim. 7)
C-W-14	-	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	InvisiWeld fastened at a rate of 12 per 4 ft. x 8 ft. board (Alt. Pattern)	EZ TPO	Induction welded to InvisiWeld plates	-75 (Lim. 7)
C-W-15	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Invisiweld-S II fastened at a rate of 1 fastener per 3-ft ² in a staggered 1.5 ft x 2 ft grid	EZ TPO	Induction welded to Invisiweld-S plates	-82.5 (Lim. 7)
C-W-16	-	Min. 1-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	InvisiWeld fastened 6-inch o.c. in rows 72-inch o.c.	EZ TPO	Induction welded to InvisiWeld plates	-60 (Lim. 7)
C-W-17	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Invisiweld-S II fastened 6-inch o.c. in rows 60-inch o.c.	EZ TPO	Induction welded to Invisiweld-S plates	-90 (Lim. 7)
C-W-18	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	InvisiWeld fastened at a rate of 16 per 4 ft. x 8 ft. board; Plate pattern offset 12-inches from each adjacent row of insulation boards	EZ TPO	Induction welded to InvisiWeld plates	-105 (Lim. 7)

Assemblies with All Layers Adhered over Cementitious Wood Fiber Deck (New or Existing)							
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
CW-A-1	Min. 1-inch ISO	Insulation Adhesive IV ribbon adhered 12-inch o.c.	-	-	EZ TPO	Membrane Adhesive V	-75 (Lim. 9)

APPENDIX B

Assemblies with All Layers Adhered over Cementitious Wood Fiber Deck (New or Existing)							
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
CW-A-2	Min. 1-inch ISO	Insulation Adhesive IV ribbon adhered 12-inch o.c.	-	-	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-75 (Lim. 9)
CW-A-3	Min. 1-inch ISO	Insulation Adhesive IV ribbon adhered 12-inch o.c.	-	-	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c., TJ-S or JBSA	-75 (Lim. 9)
CW-A-4	Min. 0.5-inch ISO	Insulation Adhesive IV ribbon adhered 12-inch o.c.	Min. 0.5-inch ISO	Insulation Adhesive IV ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-92.5 (Lim. 9)
CW-A-5	Min. 0.5-inch ISO	Insulation Adhesive IV ribbon adhered 12-inch o.c.	Min. 0.5-inch ISO	Insulation Adhesive IV ribbon adhered 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-92.5 (Lim. 9)
CW-A-6	Min. 0.5-inch ISO	Insulation Adhesive IV ribbon adhered 12-inch o.c.	Min. 0.5-inch ISO	Insulation Adhesive IV ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c., TJ-S or JBSA	-92.5 (Lim. 9)
CW-A-7	Min. 0.5-inch ISO	Insulation Adhesive IX ribbon adhered 6-inch o.c.	-	-	EZ TPO	Membrane Adhesive V	-142.5 (Lim. 9)
CW-A-8	Min. 0.5-inch ISO	Insulation Adhesive IX ribbon adhered 6-inch o.c.	-	-	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-142.5 (Lim. 9)
CW-A-9	Min. 0.5-inch ISO	Insulation Adhesive IX ribbon adhered 6-inch o.c.	-	-	EZ FB TPO	FB-S or TJ-R ribbon adhered 6-inch o.c. or I.S.O. Spray R ribbon adhered 12-inch o.c. or JBSA	-142.5 (Lim. 9)
CW-A-10	Min. 300 psi Celcore MF with HS Rheology Admixture; Min. ¼-inch slurry coat	Poured in place	-	-	EZ TPO	TPO Bonding Adhesive	-155 (Lim. 9)
CW-A-11	Min. 300 psi Celcore MF with HS Rheology Admixture; Min. ¼-inch slurry coat	Poured in place	-	-	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA or TJ-S	-160 (Lim. 9)
CW-A-12	Min. 0.5-inch ISO	Insulation Adhesive IX ribbon adhered 6-inch o.c.	DensDeck Prime	Insulation Adhesive IX ribbon adhered 6-inch o.c.	EZ TPO	Membrane Adhesive V	-160 (Lim. 9)
CW-A-13	Min. 0.5-inch ISO	Insulation Adhesive IX ribbon adhered 6-inch o.c.	DensDeck Prime	Insulation Adhesive IX ribbon adhered 6-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-160 (Lim. 9)

APPENDIX B

Assemblies with All Layers Adhered over Cementitious Wood Fiber Deck (New or Existing)							
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
CW-A-14	Min. 0.5-inch ISO	Insulation Adhesive IX ribbon adhered 6-inch o.c.	DensDeck Prime	Insulation Adhesive IX Stick, I.S.O. Spray R ribbon adhered 6-inch o.c.	EZ FB TPO	FB-S or TJ-R ribbon adhered 6-inch o.c.; I.S.O. Spray R ribbon adhered 12-inch o.c.; HA PermaMop; or FB-BA, TJ-S or JBSA	-160 (Lim. 9)

Assemblies Adhered Membranes over Cementitious Wood Fiber Deck (New, Existing, or Recover)							
System No.	Base Insulation/ Base Sheet	Base Insulation/ Base Sheet Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
CW-AM-1	SBS PolyBase Min. 3.4-inch laps	1.8" Two Piece Impact Nail attached 12-inch o.c. at the lap and 12-inch o.c. in two equally spaced, staggered rows in the field of the roll	-	-	EZ FB TPO	I.S.O. Spray R ribbon adhered 12-inch o.c.	-52.5 (Lim. 7)
CW-AM-2	SBS PolyBase Min. 3.4-inch laps	1.8" Two Piece Impact Nail attached 9-inch o.c. at the lap and 9-inch o.c. in two equally spaced, staggered rows in the field of the roll	-	-	EZ FB TPO	I.S.O. Spray R ribbon adhered 12-inch o.c.	-67.5 (Lim. 7)
CW-AM-3	SBS PolyBase Min. 3.4-inch laps	1.8" Two Piece Impact Nail attached 7-inch o.c. at the lap and 7-inch o.c. in two equally spaced, staggered rows in the field of the roll	-	-	EZ FB TPO	I.S.O. Spray R ribbon adhered 12-inch o.c.	-90 (Lim. 7)

APPENDIX B

Assemblies with All Layers Adhered over Gypsum Deck (New or Existing)							
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
G-A-1	Min. 1-inch ISO 95+ GL or ISO CG	I.S.O. Spray R Insulation Adhesive ribbon adhered 12-inch o.c.	-	-	EZ TPO	Membrane Adhesive V	-135 (Lim. 9)
G-A-2	Min. 1-inch ISO 95+ GL or ISO CG	I.S.O. Spray R Insulation Adhesive ribbon adhered 12-inch o.c.	-	-	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-135 (Lim. 9)
G-A-3	Min. 1-inch ISO 95+ GL or ISO CG	I.S.O. Spray R Insulation Adhesive ribbon adhered 12-inch o.c.	-	-	EZ FB TPO	FB-S, TJ-R ribbon adhered 6-inch o.c. or I.S.O. Spray R ribbon adhered 12-inch o.c. or JBSA	-135 (Lim. 9)
G-A-4	ISO HD	I.S.O. IA or I.S.O. Spray R Insulation Adhesive ribbon adhered 12-inch o.c.	-	-	EZ TPO	TPO Bonding Adhesive	-230 (Lim. 9)
G-A-5	ISO HD	I.S.O. IA or I.S.O. Spray R Insulation Adhesive ribbon adhered 12-inch o.c.	-	-	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 6-inch o.c., TJ-S or JBSA	-230 (Lim. 9)
G-A-6	-	-	-	-	EZ FB TPO	TJ-S	-272.5 (Lim. 9)

Gypsum Deck Assemblies with Adhered Membranes (New or Existing)							
System No.	Base Sheet or Insulation	Base Sheet or Insulation Attachment	Coverboard	Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
G-AM-1	SBS Poly Torch Base; 6-inch wide torch adhered side laps	1.8" Trufast Twin Loc-Nail Batten Fastener and Trufast Twin Loc Coiled Batten Bar fastened 6-inch o.c. along the batten bar within the 33.4-inch o.c. spaced, torched side laps	-	-	EZ FB TPO	I.S.O. Spray R ribbon adhered 33.4-inch o.c. over base sheet torched side laps; HA; PermaMop	-30 (Lim. 7; Non-HVHZ)
G-AM-2	SBS Base; Min. 3.4-inch wide side laps	1.8" LWC Two-Piece Impact Nail attached 9-inch o.c. at the lap and 12-inch o.c. in two equally spaced, staggered rows in the field of the roll	Min. 1-inch ISO or ISO CG	I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-37.5 (Lim. 7; Non-HVHZ)
G-AM-3	SBS Base; Min. 3.4-inch wide side laps	1.8" LWC Two-Piece Impact Nail attached 9-inch o.c. at the lap and 12-inch o.c. in two equally spaced, staggered rows in the field of the roll	Min. 1-inch ISO or ISO CG	I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ FB TPO	I.S.O. Spray R ribbon adhered 12-inch o.c.	-37.5 (Lim. 7; Non-HVHZ)

APPENDIX B

Lightweight Insulating Concrete Assemblies with All Layers Adhered over Concrete Deck (New or Existing)							
System No.	Vapor Barrier	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LC-A-1	-	Min. 350 psi Celcore MF with HS Rheology Admixture	-	-	EZ FB TPO	FB-BA or TJ-S	-75 (Lim. 9)
LC-A-2	-	Min. 200 psi Cellular Lightweight Insulating Concrete (MCRF ≥ 80 lbf using 1.7" LWC Base-Ply Fastener)	-	-	EZ TPO	TPO Bonding Adhesive	-106.5 (Lim. 9)
LC-A-3		Min. 200 psi Elastizell with Zell-Crete Fibers	-	-	EZ TPO	TPO Bonding Adhesive	-115 (Lim. 9)
LC-A-4		Min. 200 psi Elastizell with Zell-Crete Fibers	-	-	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA or TJ-S	-122.5 (Lim. 9)
LC-A-5	-	Min. 200 psi Cellular Lightweight Insulating Concrete (MCRF ≥ 80 lbf using 1.7" LWC Base-Ply Fastener)	-	-	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA or TJ-S	-128 (Lim. 9)
LC-A-6	OPTIONAL SBS TA	Min. 300 psi Celcore MF with HS Rheology Admixture	-	-	EZ TPO	TPO Bonding Adhesive	-133.5 (Lim. 9)
LC-A-7	OPTIONAL SBS TA	Min. 300 psi Celcore MF with HS Rheology Admixture	ISO HD	Insulation Adhesive IV ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-133.5 (Lim. 9)
LC-A-8	OPTIONAL SBS TA	Min. 300 psi Celcore MF with HS Rheology Admixture	ISO HD	Insulation Adhesive IV ribbon adhered 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-133.5 (Lim. 9)
LC-A-9	OPTIONAL SBS TA	Min. 300 psi Celcore MF with HS Rheology Admixture	ISO HD	Insulation Adhesive IV ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c., TJ-S or JBSA	-133.5 (Lim. 9)
LC-A-10	-	Min. 300 psi Celcore MF with HS Rheology Admixture	DensDeck Prime	Insulation Adhesive VII ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-133.5 (Lim. 9)
LC-A-11	-	Min. 300 psi Celcore MF with HS Rheology Admixture	DensDeck Prime	Insulation Adhesive VII ribbon adhered 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-133.5 (Lim. 9)

APPENDIX B

Lightweight Insulating Concrete Assemblies with All Layers Adhered over Concrete Deck (New or Existing)							
System No.	Vapor Barrier	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LC-A-12	-	Min. 300 psi Celcore MF with HS Rheology Admixture	<i>DensDeck Prime</i>	Insulation Adhesive VII ribbon adhered 12-inch o.c.	<i>EZ FB TPO</i>	<i>FB-S, TJ-R</i> or I.S.O. Spray R ribbon adhered 12-inch o.c.; <i>HA; PermaMop; FB-BA, TJ-S</i> or <i>JBSA</i>	-133.5 (Lim. 9)
LC-A-13	-	Min. 350 psi Celcore MF with HS Rheology Admixture	Optional layer of Tapered <i>ISO</i> or <i>ISO CG</i> with Min. 2-inch <i>ISO HD-C</i>	<i>I.S.O. IA, I.S.O. Spray R, I.S.O. Stick</i> or Twin Jet ribbon adhered 12-inch o.c.	<i>EZ TPO</i>	Water Based Bonding Adhesive P	-135 (Lim. 9)
LC-A-14	-	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 1.5-inch <i>ISO</i> or <i>ISO CG</i> followed by optional layer of Tapered <i>ISO</i> or <i>ISO CG</i> with <i>ISO HD</i> or <i>DensDeck Prime</i>	<i>I.S.O. IA, I.S.O. Spray R, I.S.O. Stick</i> or Twin Jet ribbon adhered 12-inch o.c.	<i>EZ TPO</i>	Water Based Bonding Adhesive P	-135 (Lim. 9)
LC-A-15	-	Min. 300 psi Elastizell with Zell-Crete Fibers	-	-	<i>EZ FB TPO</i>	<i>FB-S, TJ-R</i> or I.S.O. Spray R ribbon adhered 12-inch o.c.; <i>HA; PermaMop; FB-BA, or TJ-S</i>	-136 (Lim. 9)
LC-A-16	-	Min. 300 psi Celcore MF with HS Rheology Admixture	-	-	<i>EZ FB TPO</i>	<i>FB-S, TJ-R</i> or I.S.O. Spray R ribbon adhered 12-inch o.c.; <i>HA; PermaMop; FB-BA or TJ-S</i>	-144.5 (Lim. 9)
LC-A-17	-	Min. 200 psi Cellular Lightweight Insulating Concrete (MCRF ≥ 80 lbf using 1.7" LWC Base-Ply Fastener)	<i>ISO HD</i>	<i>Insulation Adhesive IV</i> ribbon adhered 12-inch o.c.	<i>EZ TPO</i>	<i>Membrane Adhesive V</i>	-150 (Lim. 9)
LC-A-18	-	Min. 200 psi Cellular Lightweight Insulating Concrete (MCRF ≥ 80 lbf using 1.7" LWC Base-Ply Fastener)	<i>ISO HD</i>	<i>Insulation Adhesive IV</i> ribbon adhered 12-inch o.c.	<i>EZ TPO P&S HW (HVHZ ONLY)</i>	Self-adhered	-150 (Lim. 9)
LC-A-19	-	Min. 200 psi Cellular Lightweight Insulating Concrete (MCRF ≥ 80 lbf using 1.7" LWC Base-Ply Fastener)	<i>ISO HD</i>	<i>Insulation Adhesive IV</i> ribbon adhered 12-inch o.c.	<i>EZ FB TPO</i>	<i>FB-S, TJ-R</i> or I.S.O. Spray R ribbon adhered 12-inch o.c., <i>TJ-S</i> or <i>JBSA</i>	-150 (Lim. 9)

APPENDIX B

Lightweight Insulating Concrete Assemblies with All Layers Adhered over Concrete Deck (New or Existing)							
System No.	Vapor Barrier	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LC-A-20	-	Min. 200 psi Cellular Lightweight Insulating Concrete (MCRF \geq 80 lbf using 1.7" LWC Base-Ply Fastener)	DensDeck Prime	Insulation Adhesive VII ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-150 (Lim. 9)
LC-A-21	-	Min. 200 psi Cellular Lightweight Insulating Concrete (MCRF \geq 80 lbf using 1.7" LWC Base-Ply Fastener)	DensDeck Prime	Insulation Adhesive VII ribbon adhered 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-150 (Lim. 9)
LC-A-22	-	Min. 200 psi Cellular Lightweight Insulating Concrete (MCRF \geq 80 lbf using 1.7" LWC Base-Ply Fastener)	DensDeck Prime	Insulation Adhesive VII ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JBSA	-150 (Lim. 9)
LC-A-23		Min. 200 psi Elastizell with Zell-Crete Fibers	-	-	EZ TPO	LVOC Bonding Adhesive	-157.5 (Lim. 9)
LC-A-24	-	Min. 300 psi Elastizell with Zell-Crete Fibers	ISO HD	Insulation Adhesive IV ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-157.5 (Lim. 9)
LC-A-25	-	Min. 300 psi Elastizell with Zell-Crete Fibers	ISO HD	Insulation Adhesive IV ribbon adhered 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-157.5 (Lim. 9)
LC-A-26	-	Min. 300 psi Elastizell with Zell-Crete Fibers	ISO HD	Insulation Adhesive IV ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; TJ-S or JBSA	-157.5 (Lim. 9)
LC-A-27	-	Min. 300 psi Elastizell with Zell-Crete Fibers	DensDeck Prime	Insulation Adhesive VII ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-157.5 (Lim. 9)
LC-A-28	-	Min. 300 psi Elastizell with Zell-Crete Fibers	DensDeck Prime	Insulation Adhesive VII ribbon adhered 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-157.5 (Lim. 9)
LC-A-29	-	Min. 300 psi Elastizell with Zell-Crete Fibers	DensDeck Prime	Insulation Adhesive VII ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JBSA	-157.5 (Lim. 9)

APPENDIX B

Lightweight Insulating Concrete Assemblies with All Layers Adhered over Concrete Deck (New or Existing)							
System No.	Vapor Barrier	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LC-A-30	-	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 1-inch ISO with optional layer of Tapered ISO	I.S.O. Stick or Twin Jet ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive IV	-187.5 (Lim. 9)
LC-A-31	-	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 1.5-inch ISO CG with optional layer of Tapered ISO CG	I.S.O. Stick or Twin Jet ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-187.5 (Lim. 9)
LC-A-32	-	Min. 350 psi Celcore MF with HS Rheology Admixture	Optional layer of Tapered ISO or ISO CG with Min. 2-inch ISO HD-C	I.S.O. Stick or Twin Jet ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive	-187.5 (Lim. 9)
LC-A-33	-	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 1.5-inch ISO or ISO CG followed by optional layer of Tapered ISO or ISO CG with ISO HD or DensDeck Prime	I.S.O. Stick or Twin Jet ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive	-187.5 (Lim. 9)
LC-A-34	-	Min. 350 psi Celcore MF with HS Rheology Admixture	DensDeck Prime	I.S.O. Stick or Twin Jet ribbon adhered 12-inch o.c.	EZ FB TPO	FB-BA or TJ-S	-187.5 (Lim. 9)
LC-A-35	-	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 1-inch ISO with optional layer of Tapered ISO	I.S.O. IA ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive IV	-217.5 (Lim. 9)
LC-A-36	-	Min. 350 psi Celcore MF with HS Rheology Admixture	Optional layer of Tapered ISO or ISO CG with Min. 2-inch ISO HD-C	I.S.O. IA ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive	-217.5 (Lim. 9)
LC-A-37	-	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 1.5-inch ISO or ISO CG followed by optional layer of Tapered ISO or ISO CG with ISO HD or DensDeck Prime	I.S.O. IA ribbon adhered 1 2-inch o.c.	EZ TPO	Membrane Adhesive	-217.5 (Lim. 9)
LC-A-38	-	Min. 350 psi Celcore MF with HS Rheology Admixture	DensDeck Prime	I.S.O. IA ribbon adhered 12-inch o.c.	EZ FB TPO	FB-BA	-217.5 (Lim. 9)
LC-A-39	-	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 1-inch ISO CG with optional layer of Tapered ISO CG	I.S.O. IA ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-217.5 (Lim. 9)
LC-A-40	-	Min. 150 psi Cellular Lightweight Insulating Concrete (MCRF ≥ 123 lbf using 1.7" LWC Base-Ply Fastener)	-	-	EZ TPO	TPO Bonding Adhesive	-222.5 (Lim. 9; HVHZ Only)
LC-A-41	-	Min. 350 psi Celcore MF with HS Rheology Admixture	-	-	EZ TPO	TPO Bonding Adhesive	-247.5 (Lim. 9)

APPENDIX B

Lightweight Insulating Concrete Assemblies with All Layers Adhered over <i>Concrete Deck</i> (New or Existing)							
System No.	Vapor Barrier	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LC-A-42	-	Min. 280 psi Celcore MF with HS Rheology Admixture	-	-	EZ TPO	FB-S or I.S.O. Spray R ribbon adhered 6-inch o.c.; HA; PermaMop; FB-BA	-320 (Lim. 9 HVHZ Only)
LC-A-43	-	Min. 280 psi Celcore MF with HS Rheology Admixture	-	-	EZ TPO	TPO Bonding Adhesive	-322.5 (Lim. 9 HVHZ Only)
LC-A-44	-	Min. 360 psi Celcore MF with HS Rheology Admixture and Celcore S-1	-	-	EZ TPO	TPO Bonding Adhesive	-335 (Lim. 9)
LC-A-45	SBS TA	Min. 300 psi Celcore MF with HS Rheology Admixture; Min. 0.25-inch slurry coat	-	-	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA or TJ-S	-350 (Lim. 9)
LC-A-46	-	Min. 350 psi Celcore MF with HS Rheology Admixture	-	-	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA or TJ-S	-397.5 (Lim. 9)
LC-A-47	SBS TA	Min. 300 psi Celcore MF with HS Rheology Admixture; Min. 0.25-inch slurry coat	-	-	EZ TPO	TPO Bonding Adhesive	-455 (Lim. 9)

Lightweight Insulating Concrete Assemblies with All Layers Adhered over <i>Steel Deck</i> (New or Existing)							
System No.	Deck Detail	LWIC	Insulation/Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LS-A-1	G33, F1, L6, S12	Min. 300 psi Celcore MF with HS Rheology	-	-	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA or TJ-S	-45 (Lim. 9)
LS-A-2	G33, F1, L6, S12	Min. 300 psi Celcore MF with HS Rheology	ISO HD	Insulation Adhesive IV ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-45 (Lim. 9)

APPENDIX B

Lightweight Insulating Concrete Assemblies with All Layers Adhered over Steel Deck (New or Existing)							
System No.	Deck Detail	LWIC	Insulation/ Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LS-A-3	G33, F1, L6, S12	Min. 300 psi Celcore MF with HS Rheology	ISO HD	Insulation Adhesive IV ribbon adhered 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-45 (Lim. 9)
LS-A-4	G33, F1, L6, S12	Min. 300 psi Celcore MF with HS Rheology	ISO HD	Insulation Adhesive IV ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c. TJ-S or JB-SA	-45 (Lim. 9)
LS-A-5	G33, F1, L6, S12	Min. 300 psi Celcore MF with HS Rheology	DensDeck Prime	Insulation Adhesive VII ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-45 (Lim. 9)
LS-A-6	G33, F1, L6, S12	Min. 300 psi Celcore MF with HS Rheology	DensDeck Prime	Insulation Adhesive VII ribbon adhered 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-45 (Lim. 9)
LS-A-7	G33, F1, L6, S12	Min. 300 psi Celcore MF with HS Rheology	DensDeck Prime	Insulation Adhesive VII ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JB-SA	-45 (Lim. 9)
LS-A-8	G33, F1, L6	Min. 300 psi Celcore MF with HS Rheology	-	-	EZ TPO	TPO Bonding Adhesive or LVOC Bonding Adhesive	-45 (Lim. 9)
LS-A-9	G33, P, L6, S18	Min. 310 psi Celcore MF with HS Rheology over deck treated with Celcore S-1	-	-	EZ FB TPO	FB-BA; FB-S, TJ-R or I.S.O. Spray R or TJ-S	-45 (Lim. 9)
LS-A-10	G33, F1W, L6, S12	Min. 360 psi LWIC (MCRF \geq 176 lbf with 1.7" LWC Base Ply Fastener); Polymer Batten Strip spaced 18-inch o.c. through fastened to Steel Deck 12-inch o.c. with Heavy Duty Fasteners	-	-	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 6-inch o.c.; HA; PermaMop; FB-BA or TJ-S	-60 (Lim. 9)
LS-A-11	G33, P, L5, S12	Min. 350 psi Elastizell with Zell-Crete Fibers	-	-	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 6-inch o.c.; HA; PermaMop; FB-BA or TJ-S	-60 (Lim. 9)
LS-A-12	G33, P, L6, S18	Min. 360 psi Celcore MF with HS Rheology and Celcore S-1	-	-	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbons adhered 12-inch o.c.; HA; PermaMop; FB-BA or TJ-S	-60 (Lim. 9)
LS-A-13	G33, F1, L5	Min. 300 psi Elastizell with Zell-Crete Fibers	-	-	EZ TPO	TPO Bonding Adhesive or LVOC Bonding Adhesive	-67.5 (Lim. 9)

APPENDIX B

Lightweight Insulating Concrete Assemblies with All Layers Adhered over Steel Deck (New or Existing)							
System No.	Deck Detail	LWIC	Insulation/ Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LS-A-14	G33, F1, L5, S6	Min. 300 psi Elastizell with Zell-Crete Fibers	-	-	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA or TJ-S	-67.5 (Lim. 9)
LS-A-15	G33, F1, L5, S6	Min. 300 psi Elastizell with Zell-Crete Fibers	ISO HD	Insulation Adhesive IV ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-67.5 (Lim. 9)
LS-A-16	G33, F1, L5, S6	Min. 300 psi Elastizell with Zell-Crete Fibers	ISO HD	Insulation Adhesive IV ribbon adhered 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-67.5 (Lim. 9)
LS-A-17	G33, F1, L5, S6	Min. 300 psi Elastizell with Zell-Crete Fibers	ISO HD	Insulation Adhesive IV ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c. or JB-SA	-67.5 (Lim. 9)
LS-A-18	G33, F1, L5, S6	Min. 300 psi Elastizell with Zell-Crete Fibers	DensDeck Prime	Insulation Adhesive VII ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-67.5 (Lim. 9)
LS-A-19	G33, F1, L5, S6	Min. 300 psi Elastizell with Zell-Crete Fibers	DensDeck Prime	Insulation Adhesive VII ribbon adhered 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-67.5 (Lim. 9)
LS-A-20	G33, F1, L5, S6	Min. 300 psi Elastizell with Zell-Crete Fibers	DensDeck Prime	Insulation Adhesive VII ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JB-SA	-67.5 (Lim. 9)
LS-A-21	G33, P, L5, S18	Min. 300 psi Celcore MF with HS Rheology and Celcore S-1 coated with Celcore SBS	-	-	EZ TPO	TPO Bonding Adhesive	-67.5 (Lim. 9)
LS-A-22	G33, P, L6, S18	Min. 350 psi Celcore MF with HS Rheology and Celcore S-1	-	-	EZ FB TPO	I.S.O. Spray R or TJ-R ribbon adhered 12-inch o.c.; or TJ-S	-67.5 (Lim. 9)
LS-A-23	G33, F1W, L6, S12	Min. 300 psi Celcore MF with HS Rheology Admixture; Polymer Batten Strip spaced 18-inch o.c. through fastened to Steel Deck 12-inch o.c. with Heavy Duty Fasteners	-	-	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 4-inch o.c.; HA; PermaMop; FB-BA or TJ-S	-75 (Lim. 9)
LS-A-24	G33, PW, L6, S18	Min. 360 psi Celcore MF with HS Rheology over deck treated with Celcore S-1	-	-	EZ TPO	TPO Bonding Adhesive	-82.5 (Lim. 9)

APPENDIX B

Lightweight Insulating Concrete Assemblies with All Layers Adhered over Steel Deck (New or Existing)							
System No.	Deck Detail	LWIC	Insulation/ Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LS-A-25	G33, F1, L6, S12	Min. 300 psi Celcore MF with HS Rheology Admixture <i>HD Fasteners & Plates</i> through-fastened to <i>Steel Deck</i> at a rate of one per 2 ft ²	-	-	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA or TJ-S	-90 (Lim. 9)
LS-A-26	G33, F1, L6, S12	Min. 300 psi Celcore MF with HS Rheology <i>HD Fasteners & Plates</i> through-fastened to <i>Steel Deck</i> at a rate of one per 2 ft ²	ISO HD	Insulation Adhesive IV ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-90 (Lim. 9)
LS-A-27	G33, F1, L6, S12	Min. 300 psi Celcore MF with HS Rheology <i>HD Fasteners & Plates</i> through-fastened to <i>Steel Deck</i> at a rate of one per 2 ft ²	ISO HD	Insulation Adhesive IV ribbon adhered 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-90 (Lim. 9)
LS-A-28	G33, F1, L6, S12	Min. 300 psi Celcore MF with HS Rheology <i>HD Fasteners & Plates</i> through-fastened to <i>Steel Deck</i> at a rate of one per 2 ft ²	ISO HD	Insulation Adhesive IV ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; TJ-S or JBSA	-90 (Lim. 9)
LS-A-29	G33, F1, L6, S12	Min. 300 psi Celcore MF with HS Rheology <i>HD Fasteners & Plates</i> through-fastened to <i>Steel Deck</i> at a rate of one per 2 ft ²	DensDeck Prime	Insulation Adhesive VII ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-90 (Lim. 9)
LS-A-30	G33, F1, L6, S12	Min. 300 psi Celcore MF with HS Rheology <i>HD Fasteners & Plates</i> through-fastened to <i>Steel Deck</i> at a rate of one per 2 ft ²	DensDeck Prime	Insulation Adhesive VII ribbon adhered 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-90 (Lim. 9)
LS-A-31	G33, F1, L6, S12	Min. 300 psi Celcore MF with HS Rheology <i>HD Fasteners & Plates</i> through-fastened to <i>Steel Deck</i> at a rate of one per 2 ft ²	DensDeck Prime	Insulation Adhesive VII ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JBSA	-90 (Lim. 9)
LS-A-32	G33, P, L6, S18	Min. 380 psi Celcore MF with HS Rheology and Celcore S-1	-	-	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbons spaced 4-inch o.c.; or TJ-S	-90 (Lim. 9)
LS-A-33	G33, F1, L6	Min. 300 psi Celcore MF with HS Rheology Admixture <i>HD Fasteners & Plates</i> through-fastened to <i>Steel Deck</i> at a rate of one per 2 ft ²	-	-	EZ TPO	TPO Bonding Adhesive or LVOC Bonding Adhesive	-90 (Lim. 9)
LS-A-34	G33, P, L6, S18	Min. 380 psi Celcore MF with HS Rheology over deck treated with Celcore S-1; Celcore SBS applied over top coat	-	-	EZ FB TPO	I.S.O. Spray R ribbons spaced 4-inch o.c.; or TJ-S	-90 (Lim. 9)
LS-A-35	G33, F1, L6	Min. 300 psi Elastizell <i>HD Fasteners & Plates</i> through-fastened to <i>Steel Deck</i> at a rate of one per 2 ft ²	-	-	EZ TPO	TPO Bonding Adhesive	-115 (Lim. 9)

APPENDIX B

Lightweight Insulating Concrete Assemblies with All Layers Adhered over Steel Deck (New or Existing)							
System No.	Deck Detail	LWIC	Insulation/ Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LS-A-36	G33, F1, L6, S12	Min. 300 psi Elastizell HD Fasteners & Plates through-fastened to Steel Deck at a rate of one per 2 ft ²	-	-	EZ TPO	LVOC Bonding Adhesive	-135 (Lim. 9)
LS-A-37	G33, F1, L6	Min. 300 psi Elastizell HD Fasteners & Plates through-fastened to Steel Deck at a rate of one per 2 ft ²	-	-	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA or TJ-S	-135 (Lim. 9)
LS-A-38	G33, F1, L6, S12	Min. 300 psi Elastizell HD Fasteners & Plates through-fastened to Steel Deck at a rate of one per 2 ft ²	ISO HD	Insulation Adhesive IV ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-135 (Lim. 9)
LS-A-39	G33, F1, L6, S12	Min. 300 psi Elastizell HD Fasteners & Plates through-fastened to Steel Deck at a rate of one per 2 ft ²	ISO HD	Insulation Adhesive IV ribbon adhered 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-135 (Lim. 9)
LS-A-40	G33, F1, L6, S12	Min. 300 psi Elastizell HD Fasteners & Plates through-fastened to Steel Deck at a rate of one per 2 ft ²	ISO HD	Insulation Adhesive IV ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; TJ-S or JB-SA	-135 (Lim. 9)
LS-A-41	G33, F1, L6, S12	Min. 300 psi Elastizell HD Fasteners & Plates through-fastened to Steel Deck at a rate of one per 2 ft ²	DensDeck Prime	Insulation Adhesive VII ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-135 (Lim. 9)
LS-A-42	G33, F1, L6, S12	Min. 300 psi Elastizell HD Fasteners & Plates through-fastened to Steel Deck at a rate of one per 2 ft ²	DensDeck Prime	Insulation Adhesive VII ribbon adhered 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-135 (Lim. 9)
LS-A-43	G33, F1, L6, S12	Min. 300 psi Elastizell HD Fasteners & Plates through-fastened to Steel Deck at a rate of one per 2 ft ²	DensDeck Prime	Insulation Adhesive VII ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JB-SA	-135 (Lim. 9)
LS-A-44	G33, L5	Min. 390 psi Celcore MF with HS Rheology over deck treated with Celcore S-1	-	-	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; FB-BA or TJ-S	-135 (Lim. 9)
LS-A-45	G33, L5	Min. 390 psi Celcore MF with HS Rheology over deck treated with Celcore S-1	-	-	EZ TPO	TPO Bonding Adhesive	-140 (Lim. 9)
LS-A-46	G33, L5	Min. 150 psi Cellular Lightweight Insulating Concrete (MCRF ≥ 123 lbf using 1.7" LWC Base-Ply Fastener)	-	-	EZ TPO	TPO Bonding Adhesive	-225 (Lim. 9; HVHZ Only)

APPENDIX B

Lightweight Insulating Concrete Assemblies with All Layers Adhered over <i>Steel Deck</i> (New or Existing)							
System No.	Deck Detail	LWIC	Insulation/ Cover Board	Insulation/Cover Board Attachment	Membrane	Membrane Attachment	MDP (psf)
LS-A-47	G33, L5	Min. 150 psi Cellular Lightweight Insulating Concrete (MCRF \geq 123 lbf using 1.7" LWC Base-Ply Fastener)	-	-	EZ FB TPO	I.S.O. Spray R ribbon adhered 6-inch o.c.; or TJ-S	-265 (Lim. 9; HVHZ Only)
LS-A-48	G33, L5	Min. 280 psi Celcore MF with HS Rheology Admixture	-	-	EZ TPO	TPO Bonding Adhesive	-272.5 (Lim. 9 HVHZ Only)
LS-A-49	G33, L5	Min. 280 psi Celcore MF with HS Rheology Admixture	-	-	EZ FB TPO	I.S.O. Spray R ribbon adhered 6-inch o.c.; or TJ-S	-460 (Lim. 9 HVHZ Only)

Lightweight Insulating Concrete Assemblies with Adhered Membranes (New or Existing)									
System No.	Deck Detail	LWIC	Base Sheet or Insulation	Base Sheet or Insulation Attachment	Coverboard	Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
L-AM-1	Steel Deck (G33, PW, L6, S18) Or Concrete Deck	Min. 420 psi Celcore MF with HS Rheology over deck treated with Celcore S-1 (steel deck only)	Channel Venting Base or SBS Base; Min. 3.5-inch wide side laps	1.8" LWC Two-Piece Impact Nail attached 9-inch o.c. at the lap and 9-inch o.c. in two equally spaced, staggered rows in the field of the roll	Min. 1-inch ISO or ISO CG	I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-37.5 (Lim. 7; Non-HVHZ)
L-AM-2	Steel Deck (G33, PW, L6, S18) Or Concrete Deck	Min. 420 psi Celcore MF with HS Rheology over deck treated with Celcore S-1 (steel deck only)	Channel Venting Base or SBS Base; Min. 3.5-inch wide side laps	1.8" LWC Two-Piece Impact Nail attached 9-inch o.c. at the lap and 9-inch o.c. in two equally spaced, staggered rows in the field of the roll	Min. 1-inch ISO or ISO CG	I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ FB TPO	I.S.O. Spray R ribbon adhered 12-inch o.c.	-37.5 (Lim. 7; Non-HVHZ)

APPENDIX B

Lightweight Insulating Concrete Assemblies with Adhered Membranes (New or Existing)									
System No.	Deck Detail	LWIC	Base Sheet or Insulation	Base Sheet or Insulation Attachment	Coverboard	Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
L-AM-3	Steel Deck (G33) or Concrete Deck	Mearlcrete, Celcore, or Celcore MF with HS Rheology Admixture	MA Base	1.8-inch Two-Piece Impact Nail installed 7-inch o.c. in the 4-inch wide laps, 7-inch o.c. in two (2) staggered rows in the field	Min. 1-inch ISO or ISO CG installed followed by OPTIONAL Tapered ISO or Tapered ISO CG followed by OPTIONAL ISO HD or DensDeck Prime	Insulation Adhesive applied in ribbons spaced 12-inch o.c.	EZ TPO	Membrane Adhesive V	-45 (Lim. 7)
L-AM-4	Steel Deck (G33, P, L5, S12W) or Concrete Deck	Min. 220 psi Elastizell with Zell-Crete Fibers	SBS Base or SBS Poly Base with Min. 3.5-inch wide side laps	1.7" LWC Base Ply Fastener attached 9-inch o.c. at the lap and 9-inch o.c. in two equally spaced, staggered rows in the field of the roll	-	-	EZ FB TPO	ASTM D 312, Type IV Asphalt	-45 (Lim. 7)
L-AM-5	Steel Deck (G33, P, L6, S18) or Concrete Deck	Min. 310 psi Celcore MF with HS Rheology over deck treated with Celcore S-1 (steel deck only)	SBS Base Min. 3.4-inch wide side laps	1.8" Two Piece Impact Nail attached 12-inch o.c. at the lap and 12-inch o.c. in two equally spaced, staggered rows in the field of the roll	0.5-inch ISO	I.S.O. Spray R ribbons spaced 12-inch o.c.	EZ TPO	Membrane Adhesive V	-45 (Lim. 7)
L-AM-6	Steel Deck (G33, P, L6, S18) or Concrete Deck	Min. 310 psi Celcore MF with HS Rheology over deck treated with Celcore S-1 (steel deck only)	SBS Base Min. 3.4-inch wide side laps	1.8" Two Piece Impact Nail attached 12-inch o.c. at the lap and 12-inch o.c. in two equally spaced, staggered rows in the field of the roll	0.5-inch ISO	I.S.O. Spray R ribbons spaced 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-Adhered	-45 (Lim. 7)
L-AM-7	Steel Deck (G33, P, L6, S18) or Concrete Deck	Min. 310 psi Celcore MF with HS Rheology over deck treated with Celcore S-1 (steel deck only)	SBS Base Min. 3.4-inch wide side laps	1.8" Two Piece Impact Nail attached 12-inch o.c. at the lap and 12-inch o.c. in two equally spaced, staggered rows in the field of the roll	0.5-inch ISO	I.S.O. Spray R ribbons spaced 12-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbons spaced 12-inch o.c.; or JBSA	-45 (Lim. 7)

APPENDIX B

Lightweight Insulating Concrete Assemblies with Adhered Membranes (New or Existing)									
System No.	Deck Detail	LWIC	Base Sheet or Insulation	Base Sheet or Insulation Attachment	Coverboard	Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
L-AM-8	Steel Deck (G33, P, L5, S18) or Concrete Deck	Min. 300 psi Celcore MF with HS Rheology (over deck treated with Celcore S-1 on steel deck only)	SBS Base Min. 3.4-inch wide side laps	1.7" LWC Base Ply Fastener attached 9-inch o.c. at the lap and 9-inch o.c. in two equally spaced, staggered rows in the field of the roll	-	-	EZ FB TPO	I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; or PermaMop	-52.5 (Lim. 7)
L-AM-9	Steel Deck (G33, PW, L6, S18) Or Concrete Deck	Min. 420 psi Celcore MF with HS Rheology (over deck treated with Celcore S-1 on steel deck only)	MA Base; Min. 4-inch wide side laps	1.7" LWC Base Ply Fastener attached 7-inch o.c. at the lap and 7-inch o.c. in two equally spaced, staggered rows in the field of the roll	-	-	EZ FB TPO	I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop	-52.5 (Lim. 7)
L-AM-10	Steel Deck (G33, P, L5, S18) or Concrete Deck	Min. 300 psi Celcore MF with HS Rheology (over deck treated with Celcore S-1 on steel deck only)	SBS PolyBase Min. 3.4-inch wide side laps	1.8" Two Piece Impact Nail attached 9-inch o.c. at the lap and 9-inch o.c. in two equally spaced, staggered rows in the field of the roll	-	-	EZ FB TPO	I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; or PermaMop	-60 (Lim. 7)
L-AM-11	Steel Deck (G33, P, L6, S18) or Concrete Deck	Min. 380 psi Celcore MF with HS Rheology (over deck treated with Celcore S-1 on steel deck only)	SBS Base Min. 3.4-inch wide side laps	1.8" Two Piece Impact Nail attached 7-inch o.c. at the lap and 7-inch o.c. in two equally spaced, staggered rows in the field of the roll	SECUROCK	I.S.O. Spray R ribbons spaced 12-inch o.c.	EZ TPO	Membrane Adhesive V	-67.5 (Lim. 7)
L-AM-12	Steel Deck (G33, P, L6, S18) or Concrete Deck	Min. 380 psi Celcore MF with HS Rheology (over deck treated with Celcore S-1 on steel deck only)	SBS Base Min. 3.4-inch wide side laps	1.8" Two Piece Impact Nail attached 7-inch o.c. at the lap and 7-inch o.c. in two equally spaced, staggered rows in the field of the roll	SECUROCK	I.S.O. Spray R ribbons spaced 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-Adhered	-67.5 (Lim. 7)
L-AM-13	Steel Deck (G33, P, L6, S18) or Concrete Deck	Min. 380 psi Celcore MF with HS Rheology (over deck treated with Celcore S-1 on steel deck only)	SBS Base Min. 3.4-inch wide side laps	1.8" Two Piece Impact Nail attached 7-inch o.c. at the lap and 7-inch o.c. in two equally spaced, staggered rows in the field of the roll	SECUROCK	I.S.O. Spray R ribbons spaced 12-inch o.c.	EZ FB TPO	I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-67.5 (Lim. 7)

APPENDIX B

Lightweight Insulating Concrete Assemblies with Adhered Membranes (New or Existing)									
System No.	Deck Detail	LWIC	Base Sheet or Insulation	Base Sheet or Insulation Attachment	Coverboard	Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
L-AM-14	Steel Deck (G33, P, L6, S18) or Concrete Deck	Min. 400 psi Celcore MF with HS Rheology (over deck treated with Celcore S-1 on steel deck only)	SBS Base Min. 3.4-inch wide side laps	1.7" LWC Base Ply Fastener attached 7-inch o.c. at the lap and 7-inch o.c. in two equally spaced, staggered rows in the field of the roll	-	-	EZ FB TPO	I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop	-67.5 (Lim. 7)
L-AM-15	Steel Deck (G33, P, L6, S18) or Concrete Deck	Min. 360 psi Celcore MF with HS Rheology	Channel Venting Base Min. 3.4-inch wide side laps	1.8" Two Piece Impact Nail attached 7-inch o.c. at the lap and 7-inch o.c. in two equally spaced, staggered rows in the field of the roll	-	-	EZ FB TPO	I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop	-75 (Lim. 7)

Mechanically Fastened Lightweight Insulating Concrete Assemblies (New, Existing, or Recover)									
System No.	Deck Detail	LWIC	Base Sheet or Insulation	Base Sheet or Insulation Attachment	Coverboard	Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
L-M-1	Steel Deck (G33, HXE1, L6, HS12)	Min. 200 psi Celcore MF with HS Rheology	OPTIONAL Insulation	Preliminarily Secured	-	-	EZ FB TPO (120-inch wide)	Attached in-lap 12-inch o.c. with HD Fasteners & Plates; Fastener rows 114-inch o.c.	-30 (Lim. 7; Non-HVHZ)
L-M-2	Steel Deck (G33, HXE1, L6, HS12)	Min. 200 psi Celcore MF with HS Rheology	OPTIONAL Insulation	Preliminarily Secured	-	-	EZ FB TPO (120-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 114-inch o.c.	-45 (Lim. 7)
L-M-3	Steel Deck (G33, P, L6, S18) or Concrete Deck	Min. 350 psi LWIC	OPTIONAL Insulation	Preliminarily Secured	-	-	Min. 60 mil EZ TPO (120-inch wide)	Attached in-lap 12-inch o.c. with HD Fasteners & Plates; Fastener rows 114-inch o.c.	-45 (Lim. 7)
L-M-4	Steel Deck (G33, F1, L5, S12) or Concrete Deck	Min. 300 psi LWIC	OPTIONAL Insulation	Preliminarily Secured	-	-	EZ TPO (120-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 114-inch o.c.	-52.5 (Lim. 7)

APPENDIX B

Mechanically Fastened Lightweight Insulating Concrete Assemblies (New, Existing, or Recover)									
System No.	Deck Detail	LWIC	Base Sheet or Insulation	Base Sheet or Insulation Attachment	Coverboard	Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
L-M-5	Steel Deck (G33, P, L6, S18) or Concrete Deck	Min. 350 psi LWIC	OPTIONAL Insulation	Preliminarily Secured	-	-	Min. 60 mil EZ TPO (148-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 142-inch o.c.	-52.5 (Lim. 7)
L-M-6	Steel Deck (G33, P, L6, S18) or Concrete Deck	Min. 350 psi LWIC	OPTIONAL Insulation	Preliminarily Secured	-	-	Min. 60 mil EZ TPO (120-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 114-inch o.c.	-67.5 (Lim. 7)
L-M-7	Steel Deck (G33, HXE1, L6, HS12)	Min. 200 psi Celcore MF with HS Rheology	OPTIONAL Insulation	Preliminarily Secured	-	-	EZ TPO (96-inch wide)	Heavy Duty fasteners installed 6-inch through Polymer Batten Strip spaced 90-inch o.c. within the side laps; Side laps sealed with min. 5-inch weld that encapsulates the batten and fasteners	-67.5 (Lim. 7)
L-M-8	Steel Deck (G33, HXE1, L6, HS12)	Min. 200 psi Celcore MF with HS Rheology	OPTIONAL Insulation	Preliminarily Secured	-	-	EZ FB TPO (120-inch wide)	Attached in-lap 6-inch o.c. with HD Plus Fasteners & Plates; Fastener rows 114-inch o.c.	-67.5 (Lim. 7)
L-M-9	Steel Deck (G33, P, L6, S18) or Concrete Deck	Min. 380 psi Celcore MF with HS Rheology over deck treated with Celcore S-1 (steel deck only)	-	-	-	-	EZ TPO	Heavy Duty Fasteners and Coiled Metal Batten Bar secured in the lap 6-inch o.c. along the batten bar in rows spaced 142-inch o.c.; 5.5-inch wide heat weld at the 6-inch wide lap	-67.5 (Lim. 7)
L-M-10	Steel Deck (G33, HXE1, L6, HS12)	Min. 200 psi Celcore MF with HS Rheology	OPTIONAL Insulation	Preliminarily Secured	-	-	EZ TPO (96-inch wide)	Heavy Duty Plus fasteners installed 6-inch through Metal Batten Bar spaced 90-inch o.c. within the side laps; Side laps sealed with min. 5-inch weld that encapsulates the batten and fasteners	-82.5 (Lim. 7)

APPENDIX B

Mechanically Fastened Lightweight Insulating Concrete Assemblies (New, Existing, or Recover)									
System No.	Deck Detail	LWIC	Base Sheet or Insulation	Base Sheet or Insulation Attachment	Coverboard	Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
L-M-11	Steel Deck (G33, F1, L6, S12W) or Concrete Deck	Min. 200 psi LWIC	-	-	-	-	EZ TPO	Polymer Batten Strip spaced 4-ft o.c. through fastened to Steel Deck 6-inch o.c. with Heavy Duty Fasteners; 6-inch wide EZ TPO cover strip heat welded min. 1.5-inch wide on either side of battens	-97.5 (Lim. 7)
L-M-12	Steel Deck (G33, F1, L6, S12W) or Concrete Deck	Min. 200 psi LWIC	-	-	-	-	EZ FB TPO	Polymer Batten Strip spaced 4-ft o.c. through fastened to Steel Deck 6-inch o.c. with Heavy Duty Fasteners; 6-inch wide EZ TPO cover strip heat welded min. 1.5-inch wide on either side of battens	-112.5 (Lim. 7)

Induction Welded Assemblies over Lightweight Concrete (New or Existing)									
System No.	Deck Detail	LWIC	Base Sheet or Insulation	Base Sheet or Insulation Attachment	Coverboard	Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
L-W-1	Steel Deck (G33, HXE1, L6, HS12)	Min. 200 psi Celcore MF with HS Rheology	-	-	-	-	EZ TPO	Induction Welded to InvisiWeld installed 18-inch o.c. in rows spaced 60-inch o.c.	-30 (Lim. 7; Non-HVHZ)
L-W-2	Steel Deck (G33, HXE1, L6, HS12)	Min. 200 psi Celcore MF with HS Rheology	-	-	-	-	EZ TPO	Induction Welded to InvisiWeld installed at a rate of 1 fastener per 5.33-ft ²	-45 (Lim. 7; Non-HVHZ)
L-W-3	Steel Deck (G33, HXE1, L6, HS12)	Min. 200 psi Celcore MF with HS Rheology	-	-	-	-	EZ TPO	Induction Welded to InvisiWeld installed at a rate of 1 fastener per 4-ft ²	-60 (Lim. 7)
L-W-4	Steel Deck (G33, HXE1, L6, HS12)	Min. 200 psi Celcore MF with HS Rheology	-	-	-	-	EZ TPO	Induction Welded to InvisiWeld installed at a rate of 1 fastener per 2.7-ft ²	-75 (Lim. 7)
L-W-5	Steel Deck (G33, HXE1, L6, HS12)	Min. 200 psi Celcore MF with HS Rheology	-	-	-	-	EZ TPO	In Induction Welded to InvisiWeld installed 6-inch o.c. in rows spaced 60-inch o.c.	-75 (Lim. 7)

APPENDIX B

Recover Assemblies with All Layers Adhered						
System No.	Existing Roof	Base Insulation	Top Insulation	Membrane	Membrane Attachment	MDP (psf)
R-A-1	Built-Up Roofing	-	-	EZ Fleece Backed TPO 60 mil or EZ Fleece Backed TPO 80 mil	FB-S ribbon adhered 12-inch o.c.	-112.5 (Lim. 9)
R-A-2	Smooth or Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	SECUROCK installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	EZ TPO	Membrane Adhesive V	-112.5 (Lim. 9)
R-A-3	Smooth or Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	SECUROCK installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-112.5 (Lim. 9)
R-A-4	Smooth or Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	SECUROCK installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ TPO	Membrane Adhesive V	-112.5 (Lim. 9)
R-A-5	Smooth or Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	SECUROCK installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-112.5 (Lim. 9)
R-A-6	Granule Surfaced SBS Modified Roofing	-	-	EZ FB TPO	FB-S ribbon adhered 12-inch o.c.	-125.5 (Lim. 9)
R-A-7	Smooth Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	DensDeck Prime installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	EZ TPO	Membrane Adhesive V	-135 (Lim. 9)
R-A-8	Smooth Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	DensDeck Prime installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ TPO	Membrane Adhesive V	-135 (Lim. 9)
R-A-9	Smooth or Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	Min 0.5-inch ISO HD installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	EZ TPO	Membrane Adhesive V	-135 (Lim. 9)
R-A-10	Smooth or Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	Min 0.5-inch ISO HD installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ TPO	Membrane Adhesive V	-135 (Lim. 9)
R-A-11	Smooth Surfaced BUR	Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	-	EZ TPO	Membrane Adhesive V	-202.5 (Lim. 9)
R-A-12	Smooth Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	OPTIONAL Min 0.5-inch ISO HD installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	EZ TPO	Membrane Adhesive	-202.5 (Lim. 9)

APPENDIX B

Recover Assemblies with All Layers Adhered						
System No.	Existing Roof	Base Insulation	Top Insulation	Membrane	Membrane Attachment	MDP (psf)
R-A-13	Smooth Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	OPTIONAL Min 0.5-inch ISO HD installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-202.5 (Lim. 9)
R-A-14	Smooth Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	DensDeck Prime installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	EZ TPO	Membrane Adhesive IV	-202.5 (Lim. 9)
R-A-15	Smooth Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	DensDeck Prime installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-202.5 (Lim. 9)
R-A-16	Smooth Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	Min. 7/16-inch OSB installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	EZ TPO	Membrane Adhesive II	-202.5 (Lim. 9; Non-HVHZ)
R-A-17	Smooth or Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	Min 0.5-inch ISO HD installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ TPO	Membrane Adhesive	-225 (Lim. 9)
R-A-18	Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	Min 0.5-inch ISO HD installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	EZ TPO	Membrane Adhesive	-225 (Lim. 9)
R-A-19	Smooth Surfaced BUR	Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	-	EZ TPO	Membrane Adhesive V	-247.5 (Lim. 9)
R-A-20	Smooth Surfaced BUR	Min. 1-inch ISO installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	-	EZ TPO	Membrane Adhesive IV	-247.5 (Lim. 9)
R-A-21	Smooth Surfaced BUR	Min. 1-inch ISO or ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	-	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-247.5 (Lim. 9)
R-A-22	Mineral Surfaced BUR	Min. 1-inch ISO CG installed with I.S.O. IA or I.S.O. Stick applied in ribbons spaced 12-inch o.c	-	EZ TPO	Membrane Adhesive V	-247.5 (Lim. 9)
R-A-23	Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	DensDeck Prime installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	EZ TPO	Fully adhered in TPO Bonding Adhesive or Single Ply LVOC Bonding Adhesive or JBSA	-247.5 (Lim. 9)
R-A-24	Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	DensDeck Prime installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-247.5 (Lim. 9)

APPENDIX B

Recover Assemblies with All Layers Adhered						
System No.	Existing Roof	Base Insulation	Top Insulation	Membrane	Membrane Attachment	MDP (psf)
R-A-25	Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	DensDeck Prime installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ TPO	TPO Bonding Adhesive or LVOC Bonding Adhesive or JB SA	-247.5 (Lim. 9)
R-A-26	Smooth or Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	DensDeck Prime installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-247.5 (Lim. 9)
R-A-27	Smooth Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	DensDeck Prime installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ TPO	Membrane Adhesive IV	-247.5 (Lim. 9)
R-A-28	Smooth Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	Min 0.5-inch ISO HD installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ TPO	TPO Bonding Adhesive or LVOC Bonding Adhesive	-247.5 (Lim. 9)
R-A-29	Smooth Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	Min 0.5-inch ISO HD installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-247.5 (Lim. 9)
R-A-30	Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	Min. 7/16-inch OSB installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	EZ TPO	Membrane Adhesive II	-247.5 (Lim. 9; Non-HVHZ)
R-A-31	Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	Min. 7/16-inch OSB installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ TPO	Membrane Adhesive II	-247.5 (Lim. 9; Non-HVHZ)
R-A-32	Mineral Surfaced BUR	Min. 1.0-inch ISO CG installed with I.S.O. IA or I.S.O. Stick applied in ribbons spaced 12-inch o.c	-	EZ TPO	Membrane Adhesive IV	-255 (Lim. 9)
R-A-33	Mineral Surfaced BUR	Min. 1.0-inch ISO installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	-	EZ TPO	Membrane Adhesive IV	-255 (Lim. 9)
R-A-34	Mineral Surfaced BUR	Min. 0.5-inch ISO installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	-	EZ TPO	Membrane Adhesive IV	-255 (Lim. 9)
R-A-35	Mineral Surfaced BUR	Min. 1-inch ISO or ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	-	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-262.5 (Lim. 9)
R-A-36	Mineral Surfaced BUR	Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	OPTIONAL Min 0.5-inch ISO HD installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	EZ TPO	LVOC Bonding Adhesive or TPO Bonding Adhesive	-262.5 (Lim. 9)

APPENDIX B

Recover Assemblies with All Layers Adhered						
System No.	Existing Roof	Base Insulation	Top Insulation	Membrane	Membrane Attachment	MDP (psf)
R-A-37	Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	DensDeck Prime installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ TPO	LVOC-1168 Bonding Adhesive	-262.5 (Lim. 9)
R-A-38	Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	DensDeck Prime installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	EZ TPO	LVOC-1168 Bonding Adhesive	-262.5 (Lim. 9)
R-A-39	Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	Min 0.5-inch ISO HD installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	EZ TPO	TPO Bonding Adhesive or LVOC Bonding Adhesive	-262.5 (Lim. 9)
R-A-40	Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	Min 0.5-inch ISO HD installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-262.5 (Lim. 9)
R-A-41	Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	Min 0.5-inch ISO HD installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ TPO	TPO Bonding Adhesive	-300 (Lim. 9)
R-A-42	Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	Min 0.5-inch ISO HD installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-300 (Lim. 9)
R-A-43	Built-Up Roofing	-	-	EZ FB TPO	I.S.O. Spray R ribbon adhered 4-inch o.c.	-360 (Lim. 9)
R-A-44	Mineral Surfaced BUR	Min. 0.5-inch ISO installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	-	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-337.5 (Lim. 9)
R-A-45	Mineral Surfaced BUR	Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	-	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-352.5 (Lim. 9)
R-A-46	Mineral Surfaced BUR	Min. 1-inch ISO CG installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	OPTIONAL Min 0.5-inch ISO HD installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ TPO	LVOC Bonding Adhesive or TPO Bonding Adhesive	-352.5 (Lim. 9)
R-A-47	Mineral Surfaced BUR	Min. 0.5-inch ISO installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	Min 0.5-inch ISO HD installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ TPO	LVOC Bonding Adhesive or TPO Bonding Adhesive	-352.5 (Lim. 9)
R-A-48	Granule Surfaced SBS Modified Roofing	-	-	EZ Fleece Backed TPO 60 mil or EZ Fleece Backed TPO 80 mil	FB-S ribbon adhered 12-inch o.c.	-392.5 (Lim. 9)

APPENDIX B

Recover Assemblies with All Layers Adhered						
System No.	Existing Roof	Base Insulation	Top Insulation	Membrane	Membrane Attachment	MDP (psf)
R-A-49	Granule Surfaced APP Modified Roofing	-	-	EZ Fleece Backed TPO 60 mil or EZ Fleece Backed TPO 80 mil	FB-S ribbon adhered 12-inch o.c.	-422.5 (Lim. 9)

Recover Assemblies with Adhered Membranes								
System No.	Deck Detail	Insulation or Base	Insulation or Base Attachment	Coverboard	Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
R-AM-1	Gypsum Deck	SBS Poly Torch Base; 6-inch wide torch adhered side laps	Trufast Twin Loc-Nail Batten Fastener with min. 1.8" penetration into gypsum deck and Trufast Twin Loc Coiled Batten Bar fastened 6-inch o.c. along the batten bar within the 33.4-inch o.c. spaced, torched side laps	-	-	EZ FB TPO	I.S.O. Spray R ribbon adhered 33.4-inch o.c. over base sheet torched side laps; HA; PermaMop	-30 (Lim. 7; Non-HVHZ)
R-AM-2	Min. 420 psi Celcore MF with HS Rheology LWIC over <i>Steel Deck (G33, PW, L6, S18)</i> or <i>Concrete Deck</i>	Channel Venting Base or SBS Base; Min. 3.5-inch wide side laps	Two Piece Impact Nail with min. 1.8" penetration into LWIC attached 9-inch o.c. at the lap and 9-inch o.c. in two equally spaced, staggered rows in the field of the roll	Min. 1-inch ISO or ISO CG	I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive V	-37.5 (Lim. 7; Non-HVHZ)
R-AM-3	Min. 420 psi Celcore MF with HS Rheology LWIC over <i>Steel Deck (G33, PW, L6, S18)</i> or <i>Concrete Deck</i>	Channel Venting Base or SBS Base; Min. 3.5-inch wide side laps	Two Piece Impact Nail with min. 1.8" penetration into LWIC attached 9-inch o.c. at the lap and 9-inch o.c. in two equally spaced, staggered rows in the field of the roll	Min. 1-inch ISO or ISO CG	I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ FB TPO	I.S.O. Spray R ribbon adhered 12-inch o.c.	-37.5 (Lim. 7; Non-HVHZ)

APPENDIX B

Recover Assemblies with Adhered Membranes								
System No.	Deck Detail	Insulation or Base	Insulation or Base Attachment	Coverboard	Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
R-AM-4	Min. 310 psi Celcore MF with HS Rheology LWIC over <i>Steel Deck</i> (G33, P, L6, S18) or <i>Concrete Deck</i>	SBS Base Min. 3.4-inch wide side laps	Two Piece Impact Nail with min. 1.8" penetration into LWIC attached 12-inch o.c. at the lap and 12-inch o.c. in two equally spaced, staggered rows in the field of the roll	0.5-inch ISO	I.S.O. Spray R ribbons spaced 12-inch o.c.	EZ TPO	Membrane Adhesive V	-45 (Lim. 7)
R-AM-5	Min. 310 psi Celcore LWIC over <i>Steel Deck</i> (G33, P, L6, S18) or <i>Concrete Deck</i>	SBS Base Min. 3.4-inch wide side laps	Two Piece Impact Nail with min. 1.8" penetration into LWIC attached 12-inch o.c. at the lap and 12-inch o.c. in two equally spaced, staggered rows in the field of the roll	0.5-inch ISO	I.S.O. Spray R ribbons spaced 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-Adhered	-45 (Lim. 7)
R-AM-6	Min. 310 psi Celcore MF with HS Rheology LWIC over <i>Steel Deck</i> (G33, P, L6, S18) or <i>Concrete Deck</i>	SBS Base Min. 3.4-inch wide side laps	Two Piece Impact Nail with min. 1.8" penetration into LWIC attached 12-inch o.c. at the lap and 12-inch o.c. in two equally spaced, staggered rows in the field of the roll	0.5-inch ISO	I.S.O. Spray R ribbons spaced 12-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbons spaced 12-inch o.c., TJ-S or JBSA	-45 (Lim. 7)
R-AM-7	Min. 3-inch CWF Deck	SBS PolyBase Min. 3.4-inch wide side laps	Two Piece Impact Nail with min. 1.8" penetration into CWF attached 12-inch o.c. at the lap and 12-inch o.c. in two equally spaced, staggered rows in the field of the roll	-	-	EZ FB TPO	I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; or PermaMop	-52.5 (Lim. 7)
R-AM-8	Min. 380 psi Celcore MF with HS Rheology LWIC over <i>Steel Deck</i> (G33, P, L6, S18) or <i>Concrete Deck</i>	SBS Base Min. 3.4-inch wide side laps	Two Piece Impact Nail with min. 1.8" penetration into LWIC attached 7-inch o.c. at the lap and 7-inch o.c. in two equally spaced, staggered rows in the field of the roll	SECUROCK	I.S.O. Spray R ribbons spaced 12-inch o.c.	EZ TPO	Membrane Adhesive V	-67.5 (Lim. 7)

APPENDIX B

Recover Assemblies with Adhered Membranes								
System No.	Deck Detail	Insulation or Base	Insulation or Base Attachment	Coverboard	Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
R-AM-9	Min. 380 psi Celcore MF with HS Rheology LWIC over <i>Steel Deck</i> (G33, P, L6, S18) or <i>Concrete Deck</i>	SBS Base Min. 3.4-inch wide side laps	Two Piece Impact Nail with min. 1.8" penetration into attached 7-inch o.c. at the lap and 7-inch o.c. in two equally spaced, staggered rows in the field of the roll	SECUROCK	I.S.O. Spray R ribbons spaced 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-Adhered	-67.5 (Lim. 7)
R-AM-10	Min. 380 psi Celcore MF with HS Rheology LWIC over <i>Steel Deck</i> (G33, P, L6, S18) or <i>Concrete Deck</i>	SBS Base Min. 3.4-inch wide side laps	Two Piece Impact Nail with min. 1.8" penetration into attached 7-inch o.c. at the lap and 7-inch o.c. in two equally spaced, staggered rows in the field of the roll	SECUROCK	I.S.O. Spray R ribbons spaced 12-inch o.c.	EZ FB TPO	I.S.O. Spray R or TJ-R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JBSA	-67.5 (Lim. 7)
R-AM-11	Min. 360 psi Celcore MF with HS Rheology LWIC over <i>Steel Deck</i> (G33, P, L6, S18) or <i>Concrete Deck</i>	Channel Venting Base Min. 3.4-inch wide side laps	Two Piece Impact Nail with min. 1.8" penetration into attached 7-inch o.c. at the lap and 7-inch o.c. in two equally spaced, staggered rows in the field of the roll	-	-	EZ FB TPO	I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; or PermaMop	-75 (Lim. 7)

Mechanically Fastened Recover Assemblies								
System No.	Deck Detail	Insulation or Base	Insulation or Base Attachment	Coverboard	Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
R-M-1	<i>Wood Deck</i> (T15/32, L24, N6)	Min. 0.5-inch Insulation	Preliminarily Secured	-	-	EZ TPO	UltraPly QuickSeam R.M.A Strip attached 8-ft o.c. and secured with All Purpose Fasteners 6-inch o.c. through the Polymer Batten Strip	-30 (Lim. 7; Non-HVHZ)
R-M-2	<i>Steel Deck</i> (G33, L6, S24) or <i>Concrete Deck</i>	OPTIONAL Insulation	Preliminarily Secured	-	-	EZ TPO (120-inch wide)	Attached in-lap 12-inch o.c. with HD Fasteners & Plates; Side laps spaced 114-inch o.c.	-30 (Lim. 7; Non-HVHZ)
R-M-3	<i>Steel Deck</i> (G33, P, L6)	OPTIONAL Insulation	Preliminarily Secured	-	-	EZ TPO (96-inch wide)	Attached in-lap 12-inch o.c. with HD Plus Fasteners & Plates; Fastener rows 90-inch o.c.	-45 (Lim. 7)

APPENDIX B

Mechanically Fastened Recover Assemblies								
System No.	Deck Detail	Insulation or Base	Insulation or Base Attachment	Coverboard	Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
R-M-4	Steel Deck (G80, F1, L6, S24)	OPTIONAL Insulation	Preliminarily Secured	-	-	EZ TPO (120-inch wide)	Attached in-lap 12-inch o.c. with HD Plus Fasteners & Plates; Fastener rows 114-inch o.c.	-45 (Lim. 7)
R-M-5	Steel Deck (G80, F1, L6, S24)	OPTIONAL Insulation	Preliminarily Secured	-	-	EZ TPO (96-inch wide)	Attached in-lap 12-inch o.c. with HD Fasteners & Plates; Fastener rows 90-inch o.c.	-45 (Lim. 7)
R-M-6	Wood Deck (T19/32, L24, N6)	DensDeck or SECUROCK	Preliminarily Secured	-	-	Min. 60 mil EZ TPO (120-inch wide)	Attached in-lap 5-inch o.c. with HD Fasteners & Plates; Fastener rows 114-inch o.c.	-45 (Lim. 7)
R-M-7	Min. 200 psi LWIC over Steel Deck (G33, P, L5, S12)	Insulation	Preliminarily Secured	-	-	EZ TPO (120-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 114-inch o.c.	-45 (Lim. 7)
R-M-8	Min. 300 psi LWIC over Steel Deck (G33, F1, L5, S12)	Insulation	Preliminarily Secured	-	-	EZ TPO (120-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 114-inch o.c.	-52.5 (Lim. 7)
R-M-9	Steel Deck (G80, F1, L6, S24) or Concrete Deck	OPTIONAL Insulation	Preliminarily Secured	-	-	EZ TPO (148-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 142-inch o.c.	-52.5 (Lim. 7)
R-M-10	Steel Deck (G33, F1, L6, S24)	OPTIONAL Insulation	Preliminarily Secured	-	-	EZ TPO (148-inch wide)	Attached in-lap 6-inch o.c. with HD Plus Fasteners & Plates; Fastener rows 142-inch o.c.	-60 (Lim. 7)
R-M-11	Steel Deck (G33, P, L6, S24) or Concrete Deck	OPTIONAL Insulation	Preliminarily Secured	-	-	EZ TPO (96-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 89-inch o.c.; 7-inch wide side laps	-60 (Lim. 7)
R-M-12	Steel Deck (G33, P, L6, S12W) or Concrete Deck	OPTIONAL Insulation	Preliminarily Secured	-	-	Min. 60 mil EZ TPO (120-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 114-inch o.c.	-60 (Lim. 7)
R-M-13	Steel Deck (G33, F1, L6, S24) or Concrete Deck	OPTIONAL Insulation	Preliminarily Secured	-	-	EZ TPO (120-inch wide)	Attached in-lap 6-inch o.c. with HD Plus Fasteners & Plates; Fastener rows 114-inch o.c.	-67.5 (Lim. 7)
R-M-14	Steel Deck (G33, P, L6) or Concrete Deck	OPTIONAL Insulation	Preliminarily Secured	-	-	EZ TPO (120-inch wide)	Attached in-lap 6-inch o.c. with HD Plus Fasteners & Plates; Fastener rows 114-inch o.c.	-67.5 (Lim. 7)
R-M-15	Steel Deck (G80, F2, L6, S24) or Concrete Deck	OPTIONAL Insulation	Preliminarily Secured	-	-	EZ TPO (74-inch wide)	Heavy Duty Fasteners and 0.75" Polymer Batten Strips centered in-lap and fastened 6-inch o.c.; Fastener rows 68-inch o.c.; Min. 5-inch wide heat weld encapsulating plates and fasteners	-82.5 (Lim. 7)

APPENDIX B

Mechanically Fastened Recover Assemblies								
System No.	Deck Detail	Insulation or Base	Insulation or Base Attachment	Coverboard	Coverboard Attachment	Membrane	Membrane Attachment	MDP (psf)
R-M-16	Min. 300 psi LWIC over Steel Deck (G33, P, L5, S18) or Concrete Deck	OPTIONAL Insulation	Preliminarily Secured	-	-	EZ FB TPO	HD Fasteners & Plates through-fastened 6-inches o.c. in 5-inch wide inverted strips of EZ FB TPO spaced 6-ft o.c.; I.S.O. Spray R ribbon adhered to each base strip	-90 (Lim. 7)
R-M-17	Steel Deck (G80, F2, L6, S24) or Concrete Deck	OPTIONAL Insulation	Preliminarily Secured	-	-	EZ TPO (148-inch wide)	Heavy Duty Plus Fasteners and 0.75" Polymer Batten Strips centered in-lap and fastened 6-inch o.c.; Intermediate row in field of sheet with fasteners 6-inch o.c.; Fastener rows spaced 71-inch o.c.; Min. 5-inch wide heat weld encapsulating plates and fasteners in-lap; 5-inch wide EZ TPO cover strip heat welded 1.5-inch wide on either side of battens in field row	-135 (Lim. 7)

Induction Welded Recover Assemblies						
System No.	Existing Roof	Insulation	Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
R-W-1	Wood Deck (T19/32, L24)	DensDeck or SECUROCK	InvisiWeld fastened at a rate of 6 per 4 ft. x 8 ft. board	EZ TPO	Induction welded to InvisiWeld plates	-30 (Lim. 7; Non-HVHZ)
R-W-2	Steel Deck or Concrete Deck	Max. 1-inch Insulation (length shall be perpendicular to deck ribs)	InvisiWeld fastened at a rate of 6 per 4 ft. x 8 ft. board; Plate pattern offset 12-inches from each adjacent row of insulation boards	EZ TPO	Induction welded to InvisiWeld plates	-45 (Lim. 7; Non-HVHZ)
R-W-3	Steel Deck (G33, P, L6, S24) or Concrete Deck	Insulation	InvisiWeld fastened at a rate of 8 per 4 ft. x 8 ft. board	EZ TPO	Induction welded to InvisiWeld plates	-45 (Lim. 7)
R-W-4	Existing metal roof having 0.25 to 3/16-inch thick steel purlins at max. 10 ft. o.c.	Min. 1-inch ISO fill layer with Min. 0.25-inch Insulation over fill	Secured to purlins with EZ TPO InvisiWeld Plates and Purlin Fasteners spaced max. 6-inch o.c. in max. 10 ft. fastener rows	EZ TPO	Induction welded to InvisiWeld plates	-52.5 (Lim. 7)
R-W-5	Wood Deck (T19/32, L24)	DensDeck or SECUROCK	InvisiWeld fastened at a rate of 8 per 4 ft. x 8 ft. board	EZ TPO	Induction welded to InvisiWeld plates	-52.5 (Lim. 9)
R-W-6	Wood Deck (T19/32, L24, N6)	DensDeck or SECUROCK	InvisiWeld fastened at a rate of 12 per 4 ft. x 8 ft. board	EZ TPO	Induction welded to InvisiWeld plates	-52.5 (Lim. 7)

APPENDIX B

Induction Welded Recover Assemblies						
System No.	Existing Roof	Insulation	Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
R-W-7	Steel Deck (G33, F1, L6, S30) or Concrete Deck	Max. 1-inch Insulation (length shall be perpendicular to deck ribs)	InvisiWeld fastened at a rate of 8 per 4 ft. x 8 ft. board; Plate pattern offset 12-inches from each adjacent row of insulation boards	EZ TPO	Induction welded to InvisiWeld plates	-60 (Lim. 7)
R-W-8	Steel Deck (G33, F1, L6, S30) or Concrete Deck	Max. 1-inch Insulation (length shall be perpendicular to deck ribs)	InvisiWeld fastened at a rate of 12 per 4 ft. x 8 ft. board; Plate pattern offset 12-inches from each adjacent row of insulation boards	EZ TPO	Induction welded to InvisiWeld plates	-75 (Lim. 7)
R-W-9	Steel Deck (G33, P, L6, S24) or Concrete Deck	Min. 0.5-inch Insulation	InvisiWeld fastened at a rate of 12 per 4 ft. x 8 ft. board (Alt. Pattern)	EZ TPO	Induction welded to InvisiWeld plates	-75 (Lim. 7)
R-W-10	Wood Deck (T7/16, L24, N6) (OSB or plywood for existing construction and new construction in Non-HVHZ)	DensDeck	Preliminarily Secured	EZ TPO	Invisiweld-Secured max. 96-inch o.c. through deck into wood rafters/trusses a min. of 2-inch prior to membrane installation; Membrane Induction welded to InvisiWeld plates	-75 (Lim. 7)
R-W-11	Existing metal roof attached to min. 16 ga, purlins spaced 5-ft o.c.	Insulation	SFS Purlin Fastener and EZ TPO Invisiweld-S Plates fastened 6-inch o.c. in rows 5-ft o.c.	EZ TPO	Induction welded to Invisiweld-S plates	-90 (Lim. 7)
R-W-12	Steel Deck (G33, F2, L6, S30) or Concrete Deck	Max. 1-inch Insulation (length shall be perpendicular to deck ribs)	InvisiWeld fastened at a rate of 16 per 4 ft. x 8 ft. board; Plate pattern offset 12-inches from each adjacent row of insulation boards	EZ TPO	Induction welded to InvisiWeld plates	-105 (Lim. 7)

Assemblies with All Layers Adhered over Steel Deck (New or Existing)									
System No.	Deck Detail	Vapor Barrier	Base Insulation	Base Insulation	Top Insulation	Top Attachment	Membrane	Membrane Attachment	MDP (psf)
S-A-1	G33, L6	V-Force Vapor Barrier Membrane	Min. 1.5-inch ISO	Insulation Adhesive X; Ribbons spaced 12-inch o.c.	-	-	EZ TPO	Membrane Adhesive V	-37.5 (Lim. 9; Non-HVHZ)

APPENDIX B

Assemblies with All Layers Adhered over Steel Deck (New or Existing)									
System No.	Deck Detail	Vapor Barrier	Base Insulation	Base Insulation	Top Insulation	Top Attachment	Membrane	Membrane Attachment	MDP (psf)
S-A-2	G33, L5	V-Force Vapor Barrier Membrane	Min. 1.5-inch ISO	Insulation Adhesive X; Ribbons spaced 12-inch o.c.	-	-	EZ TPO	Membrane Adhesive IV	-45 (Lim. 9; Non-HVHZ)
S-A-3	G33, L5	BASEGARD over Min. 0.5-inch DensDeck Prime attached with I.S.O. Stick Ribbons spaced 12-inch o.c.	Min. 0.5-inch ISO	ASTM D 312 Type IV Asphalt	-	-	EZ TPO	Membrane Adhesive IV	-45 (Lim. 9; Non-HVHZ)
S-A-4	G33, L5	-	Min. 1.5-inch ISO	Insulation Adhesive X; Ribbons spaced 12-inch o.c.	-	-	EZ TPO	Membrane Adhesive IV	-45 (Lim. 9; Non-HVHZ)
S-A-5	G33, L5	V-Force Vapor Barrier Membrane over 0.5-inch DensDeck Prime secured with AP Fasteners & Plates at 8 per 4 ft. x 8 ft. board	Min. 0.5-inch ISO	I.S.O. Spray R or Twin Jet spaced 12-inch o.c.	DensDeck Prime	I.S.O. Spray R or Twin Jet spaced 12-inch o.c.	EZ TPO	Membrane Adhesive V	-45 (Lim. 9; Non-HVHZ)
S-A-6	G33, L5	V-Force Vapor Barrier Membrane over 0.5-inch DensDeck Prime secured with AP Fasteners & Plates at 8 per 4 ft. x 8 ft. board	Min. 0.5-inch ISO	I.S.O. Spray R or Twin Jet spaced 12-inch o.c.	DensDeck Prime	I.S.O. Spray R or Twin Jet spaced 12-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JBSA	-45 (Lim. 9; Non-HVHZ)
S-A-7	G33, L6, P, S24	V-Force Vapor Barrier Membrane	Min. 2-inch ISO	I.S.O. IA; Ribbons spaced 6-inch o.c.	-	-	EZ TPO	Membrane Adhesive IV	-60 (Lim. 9)
S-A-8	G33, L6, P, S24	V-Force Vapor Barrier Membrane	Min. 2-inch ISO	I.S.O. IA; Ribbons spaced 6-inch o.c.	-	-	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-60 (Lim. 9)

APPENDIX B

Assemblies with All Layers Adhered over Steel Deck (New or Existing)									
System No.	Deck Detail	Vapor Barrier	Base Insulation	Base Insulation	Top Insulation	Top Attachment	Membrane	Membrane Attachment	MDP (psf)
S-A-9	G33, L6, P, S24	-	Min. 2-inch ISO	I.S.O. IA or I.S.O. Spray R Insulation Adhesive; Ribbons spaced 6-inch o.c.	-	-	EZ TPO	Membrane Adhesive IV	-75 (Lim. 9)
S-A-10	G33, L6, P, S24	-	Min. 2-inch ISO	I.S.O. IA or I.S.O. Spray R Insulation Adhesive; Ribbons spaced 6-inch o.c.	-	-	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-75 (Lim. 9)

Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing or Recover)								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-1	G33	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	0.5-inch DensDeck Prime	AP Fasteners & Plates secured 10 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive IV	-30 (Lim. 7; Non-HVHZ)
S-AM-2	G33	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	0.5-inch DensDeck Prime	AP Fasteners & Plates secured 10 per 4 ft. x 8 ft. board	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JBSA	-30 (Lim. 7; Non-HVHZ)
S-AM-3	G33	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	3/8-inch SECUROCK	HD Fasteners & Plates secured 8 per 4 ft x 8 ft board	EZ TPO	Membrane Adhesive V	-30 (Lim. 7; Non-HVHZ)
S-AM-4	G33	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	3/8-inch SECUROCK	HD Fasteners & Plates secured 8 per 4 ft x 8 ft board	EZ FB TPO	HA; PermaMop; FB-BA, TJ-S or JBSA	-30 (Lim. 7; Non-HVHZ))
S-AM-5	G33, P, L6, S24	Min. 0.5-inch ISO	Preliminarily Secured or secured with top layer	SBS PolyBase	HD Fasteners & Plates secured 12-inch o.c. in the 3-3/8" welded lap	EZ FB TPO	I.S.O. Spray R ribbon adhered 12-inch o.c.	-37.5 (Lim. 7; Non-HVHZ)

APPENDIX B

Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing or Recover)								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-6	G33	Min. 0.5-inch DensDeck Prime primed with SA-WB Primer	AP Fasteners & Plates secured 12 per 4 ft. x 8 ft. board	V-Force Vapor Barrier Membrane self-adhered under Min. 1.5-inch ISO	I.S.O. IA; Ribbons spaced 12-inch o.c.	EZ TPO	Membrane Adhesive IV	-37.5 (Lim. 7; Non-HVHZ)
S-AM-7	G33	Min. 0.5-inch DensDeck Prime primed with SA-WB Primer	AP Fasteners & Plates secured 12 per 4 ft. x 8 ft. board	V-Force Vapor Barrier Membrane self-adhered under Min. 1.5-inch ISO	I.S.O. Stick or Twin Jet; Ribbons spaced 12-inch o.c.	EZ TPO	Membrane Adhesive IV	-45 (Lim. 7; Non-HVHZ)
S-AM-8	G33	Min 1-inch Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured 8 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive IV	-45 (Lim. 7; Non-HVHZ)
S-AM-9	G33, L5	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	MB Base, SBS Base, or Channel Venting Base	AP Fasteners & Plates secured 12-inch o.c. at the lap and 12-inch o.c. in two staggered, intermediate rows	EZ FB TPO	HA or PermaMop	-45 (Lim. 7; Non-HVHZ)
S-AM-10	G33, L5	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	SBS Base 3.4-inch side laps	AP Fasteners & Plates secured 12-inch o.c. at the lap and 12-inch o.c. in two staggered, intermediate rows	EZ FB TPO	FB-S or I.S.O. Spray R Ribbons spaced 12" o.c. and located directly over the base sheet fastener rows	-45 (Lim. 7; Non-HVHZ)
S-AM-11	G33, P, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	SECUROCK	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive V	-45 (Lim. 7)
S-AM-12	G33	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	AP Fasteners & Plates secured 12 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive V	-45 (Lim. 7; Non-HVHZ)
S-AM-13	G33	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	AP Fasteners & Plates secured 12 per 4 ft. x 8 ft. board	EZ FB TPO	FB-S or TJ-R ribbon adhered 6-inch o.c.; JBSA or TJ-S	-45 (Lim. 7; Non-HVHZ)

APPENDIX B

Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing or Recover)								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-14	G33	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	Min. 0.375-inch SECUROCK	AP Fasteners & Plates secured 8 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive V	-45 (Lim. 7; Non-HVHZ)
S-AM-15	G33	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	Min. 0.375-inch SECUROCK	AP Fasteners & Plates secured 8 per 4 ft. x 8 ft. board	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JBSA	-45 (Lim. 7; Non-HVHZ)
S-AM-16	G33	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured 8 per 4 ft. x 8 ft. board	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JBSA	-45 (Lim. 7; Non-HVHZ)
S-AM-17	G33	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	SECUROCK	HD Fasteners & Plates secured 10 per 4 ft. x 8 ft. board (Alt. Pattern)	EZ TPO	Membrane Adhesive V	-45 (Lim. 7; Non-HVHZ)
S-AM-18	G33	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	SECUROCK	HD Fasteners & Plates secured 10 per 4 ft. x 8 ft. board (Alt. Pattern)	EZ FB TPO	FB-BA, PermaMop; HA or TJ-S	-45 (Lim. 7; Non-HVHZ)
S-AM-19	G33	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	AP Fasteners & Plates secured 8 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive III	-45 (Lim. 7; Non-HVHZ)
S-AM-20	G33	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	AP Fasteners & Plates secured 8 per 4 ft. x 8 ft. board	EZ FB TPO	FB-S, TJ-R ribbon adhered 4-inch o.c.; TJ-S or JBSA	-45 (Lim. 7; Non-HVHZ)
S-AM-21	G33	Min. 2-inch ISO	Trufast #12 DP Fasteners and Trufast 3" Metal Seam Plates secured 8 per 4 ft. x 8 ft. board	DensDeck Prime	I.S.O Twin Pack or Twin Jet ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive III	-45 (Lim. 7; Non-HVHZ)
S-AM-22	G33	Min. 2-inch ISO	Trufast #12 DP Fasteners and Trufast 3" Metal Seam Plates secured 8 per 4 ft. x 8 ft. board	DensDeck Prime	I.S.O Twin Pack or Twin Jet ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S or TJ-R ribbon adhered 6-inch o.c.; TJ-S or JBSA	-45 (Lim. 7; Non-HVHZ)

APPENDIX B

Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing or Recover)								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-23	G33	DensDeck Prime	AP Fasteners & Insulation Plates secured 8 per 4 ft x 8 ft board followed by V-Force	Min. 1.5-inch ISO or Tapered ISO with ISO HD or DensDeck Prime	I.S.O. Stick or Twin Jet applied in ribbons spaced 12-inch o.c.	EZ TPO	Membrane Adhesive V	-45 (Lim. 7; Non-HVHZ)
S-AM-24	G33	DensDeck Prime	AP Fasteners & Insulation Plates secured 8 per 4 ft x 8 ft board followed by V-Force	Min. 1.5-inch ISO or Tapered ISO with ISO HD or DensDeck Prime	I.S.O. Stick or Twin Jet applied in ribbons spaced 12-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; TJ-S or JBSA	-45 (Lim. 7; Non-HVHZ)
S-AM-25	Min. 24 ga. form deck	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 2-inch ISO or ISO CG	AP Fasteners & Plates secured 15 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive V	-45 (Lim. 7; Non-HVHZ)
S-AM-26	G33, P, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	SECUROCK	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-45 (Lim. 7)
S-AM-27	G33, P, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	SECUROCK	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA; TJ-S or JBSA	-45 (Lim. 7)
S-AM-28	G33, P, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 2-inch ISO	AP Fasteners & Plates secured 12 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive V	-45 (Lim. 7)
S-AM-29	G33, P, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 2-inch ISO	AP Fasteners & Plates secured 12 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-45 (Lim. 7)
S-AM-30	G33, F1, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1-inch ISO CG	AP Fasteners & Plates secured 20 per 4 ft. x 8 ft. board (Alt. Pattern)	EZ TPO	TPO Bonding Adhesive or JBSA	-52.5 (Lim. 7)
S-AM-31	G33, F1, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1-inch ISO CG	AP Fasteners & Plates secured 20 per 4 ft. x 8 ft. board (Alt. Pattern)	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-52.5 (Lim. 7)
S-AM-32	G33, P or F1, L6, S12	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck Prime	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive V	-52.5 (Lim. 7)
S-AM-33	G33, P or F1, L6, S12	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck Prime	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-52.5 (Lim. 7)

APPENDIX B

Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing or Recover)								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-34	G33, P or F1, L6, S12	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck Prime	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	EZ FB TPO	FB-BA, PermaMop; HA, TJ-S or JBSA	-52.5 (Lim. 7)
S-AM-35	G33, P, L6, S12W	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISO	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive IV	-60 (Lim. 7)
S-AM-36	G33, P, L6, S12W	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISO	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-60 (Lim. 7)
S-AM-37	G33, P, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured 15 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive IV	-60 (Lim. 7)
S-AM-38	G33, P, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured 15 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-60 (Lim. 7)
S-AM-39	G33, P, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured 15 per 4 ft. x 8 ft. board	EZ FB TPO	FB-BA, PermaMop; HA or TJ-S	-60 (Lim. 7)
S-AM-40	G33, P, L6, S24	Min. 2-inch ISO or ISO CG	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	Min. 0.5-inch ISO or ISO CG followed by ISO HD	Insulation Adhesive VI Ribbons spaced 6-inch o.c.	EZ TPO	Membrane Adhesive V	-60 (Lim. 7)
S-AM-41	G33, P, L6, S24	Min. 2-inch ISO or ISO CG	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	Min. 0.5-inch ISO or ISO CG followed by ISO HD	Insulation Adhesive VI Ribbons spaced 6-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-60 (Lim. 7)
S-AM-42	G33, P, L6, S24	Min. 2-inch ISO or ISO CG	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	Min. 0.5-inch ISO or ISO CG followed by ISO HD	Insulation Adhesive VI Ribbons spaced 6-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; TJ-S or JBSA	-60 (Lim. 7)
S-AM-43	G33, F1, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive IV	-60 (Lim. 7)
S-AM-44	G33, F1, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-60 (Lim. 7)
S-AM-45	G33, F1, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	EZ FB TPO	FB-BA, PermaMop; HA or TJ-S	-60 (Lim. 7)

APPENDIX B

Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing or Recover)								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-46	G33, F1, L6, S24	Min. 1.5-inch ISO	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	Min. 1.5-inch ISO HD-C	Insulation Adhesive VII ribbons spaced 12-inch o.c.	EZ TPO	TPO Bonding Adhesive or JBSA	-60 (Lim. 7)
S-AM-47	G33, F1, L6, S24	Min. 1.5-inch ISO	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	Min. 1.5-inch ISO HD-C	Insulation Adhesive VII ribbons spaced 12-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-60 (Lim. 7)
S-AM-48	G33, L5	Min 1-inch Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured 8 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive IV	-62.5 (Lim. 9)
S-AM-49	G33, P, L6, S24	Min. 2-inch ISO or ISO CG	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	ISO HD	Insulation Adhesive VI Ribbons spaced 6-inch o.c.	EZ TPO	Membrane Adhesive V	-67.5 (Lim. 7)
S-AM-50	G33, P, L6, S24	Min. 2-inch ISO or ISO CG	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	ISO HD	Insulation Adhesive VI Ribbons spaced 6-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-67.5 (Lim. 7)
S-AM-51	G33, P, L6, S24	Min. 2-inch ISO or ISO CG	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	ISO HD	Insulation Adhesive VI Ribbons spaced 6-inch o.c.	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; TJ-S or JBSA	-67.5 (Lim. 7)
S-AM-52	G33, P, L6, S24	Min. 2-inch ISO	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	SECUROCK	Insulation Adhesive VII ribbons spaced 6-inch o.c.	EZ TPO	Membrane Adhesive IV	-67.5 (Lim. 7)
S-AM-53	G33, P, L6, S24	Min. 2-inch ISO	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	SECUROCK	Insulation Adhesive VII ribbons spaced 6-inch o.c.	EZ FB TPO	FB-BA, PermaMop; HA or TJ-S	-67.5 (Lim. 7)
S-AM-54	G33, P, L6, S24	Min. 2-inch ISO	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	SECUROCK	I.S.O. Stick Ribbons spaced 6-inch o.c.	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-67.5 (Lim. 7)
S-AM-55	G33, F1, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISO HD-C	AP Fasteners & Plates secured 15 per 4 ft. x 8 ft. board	EZ TPO	TPO Bonding Adhesive or JBSA	-67.5 (Lim. 7)
S-AM-56	G33, F1, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISO HD-C	AP Fasteners & Plates secured 15 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-67.5 (Lim. 7)
S-AM-57	G33, P, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured 20 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive IV	-67.5 (Lim. 7)
S-AM-58	G33, P, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured 20 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-67.5 (Lim. 7)

APPENDIX B

Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing or Recover)								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-59	G33, P, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured 20 per 4 ft. x 8 ft. board	EZ FB TPO	FB-BA, PermaMop; HA or TJ-S	-67.5 (Lim. 7)
S-AM-60	G33, F1, L6, S12	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive III	-67.5 (Lim. 7)
S-AM-61	G33, F1, L6, S12	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-67.5 (Lim. 7)
S-AM-62	G33, F1, L6, S12	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	EZ FB TPO	FB-S or TJ-R ribbon adhered 4-inch o.c.; TJ-S or JBSA	-67.5 (Lim. 7)
S-AM-63	G33, F1, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISO HD-C	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO	TPO Bonding Adhesive or JBSA	-75 (Lim. 7)
S-AM-64	G33, F1, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISO HD-C	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-75 (Lim. 7)
S-AM-65	G33, F1, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 2-inch ISO	AP Fasteners & Plates secured 20 per 4 ft. x 8 ft. board	EZ TPO	TPO Bonding Adhesive or JBSA	-75 (Lim. 7)
S-AM-66	G33, F1, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 2-inch ISO	AP Fasteners & Plates secured 20 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-75 (Lim. 7)
S-AM-67	G33, F1, L6, S12	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	AP Fasteners & Plates secured 20 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive III	-75 (Lim. 7)
S-AM-68	G33, F1, L6, S12	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	AP Fasteners & Plates secured 20 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-75 (Lim. 7)
S-AM-69	G33, F1, L6, S12	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	AP Fasteners & Plates secured 20 per 4 ft. x 8 ft. board	EZ FB TPO	FB-S or TJ-R ribbon adhered 4-inch o.c.; or TJ-S	-75 (Lim. 7)
S-AM-70	G33, F1, L6, S24	Min. 2-inch ISO	HD Fasteners & Plates secured 20 per 4 ft. x 8 ft. board	ISO HD	I.S.O. Stick, I.S.O. Spray R or I.S.O. IA ribbon adhered 6-inch o.c.	EZ FB TPO	FB-S or TJ-R ribbon adhered 6-inch o.c. or TJ-S	-82.5 (Lim. 7)
S-AM-71	G33, P, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO	TPO Bonding Adhesive or JBSA	-82.5 (Lim. 7)

APPENDIX B

Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing or Recover)								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation or Base Sheet	Top Insulation or Base Sheet Attachment	Membrane	Membrane Attachment	MDP (psf)
S-AM-72	G33, P, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-82.5 (Lim. 7)
S-AM-73	G33, F1, L6, S24	Min. 2-inch ISO or ISO CG	AP Fasteners & Plates secured 32 per 4 ft x 8 ft board	Min. 0.5-inch DensDeck Prime	I.S.O. Spray R or Twin Jet ribbon adhered 12-inch o.c.	EZ FB TPO	I.S.O. Spray R ribbon adhered 12-inch o.c.; or TJ-S	-82.5 (Lim. 7)
S-AM-74	G33, F2, L6, S12	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	AP Fasteners & Plates secured 32 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive III	-82.5 (Lim. 7)
S-AM-75	G33, F2, L6, S12	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	AP Fasteners & Plates secured 32 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-82.5 (Lim. 7)
S-AM-76	G33, F2, L6, S12	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	AP Fasteners & Plates secured 32 per 4 ft. x 8 ft. board	EZ FB TPO	FB-S or TJ-R ribbon adhered 4-inch o.c.; or TJ-S	-82.5 (Lim. 7)
S-AM-77	G33, F1, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISO	AP Fasteners & Plates secured 24 per 4 ft. x 8 ft. board	EZ TPO	TPO Bonding Adhesive at a rate 60 ft ² /gal	-90 (Lim. 7)
S-AM-78	G33, F1, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISO	AP Fasteners & Plates secured 24 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-90 (Lim. 7)
S-AM-79	G80, F1, L6, S24	Min. 2-inch ISO or ISO CG	AP Fasteners & Plates secured 32 per 4 ft x 8 ft board	Min. 0.5-inch DensDeck Prime	I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ FB TPO	I.S.O. Spray R ribbon adhered 12-inch o.c.	-97.5 (Lim. 7)
S-AM-80	G80, F2, L6, S12	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	AP Fasteners & Plates secured 32 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive III	-127.5 (Lim. 7)
S-AM-81	G80, F2, L6, S12	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	AP Fasteners & Plates secured 32 per 4 ft. x 8 ft. board	EZ TPO P&S HW (HVHZ ONLY)	Self-adhered	-127.5 (Lim. 7)
S-AM-82	G80, F2, L6, S12	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	AP Fasteners & Plates secured 32 per 4 ft. x 8 ft. board	EZ FB TPO	FB-S or TJ-R ribbon adhered 4-inch o.c.; or TJ-S	-127.5 (Lim. 7)
S-AM-83	G80, F2, L6, S12	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 2-inch ISO	AP Fasteners & Plates secured 32 per 4 ft x 8 ft board	EZ TPO	UltraPly Bonding Adhesive	-142.5 (Lim. 7)

APPENDIX B

Mechanically Fastened Assemblies over <i>Steel Deck</i> (New or Existing)									
System No.	Deck Detail	Air/Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
S-M-1	G33, L6	-	OPTIONAL Insulation	<i>Preliminarily Secured</i> or Secured with Top Layer	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	EZ TPO (120-inch wide)	Attached in-lap 12-inch o.c. with <i>HD Fasteners & Plates</i> ; Side laps spaced 114-inch o.c.	-30 (Lim. 7; Non-HVHZ)
S-M-2	G33, L6	V-Force Vapor Barrier Membrane installed as <i>Air Barrier</i> over loose-laid <i>DensDeck Prime</i>	OPTIONAL Insulation	<i>Preliminarily Secured</i> or Secured with Top Layer	Min. 2-inch ISO or ISO CG	<i>AP Fasteners and Plates</i> secured min. 8 per 4-ft x 8-ft board	EZ TPO (120-inch wide)	Attached in-lap 12-inch o.c. with <i>HD Fasteners & Plates</i> ; Fastener rows 114-inch o.c.	-30 (Lim. 7; Non-HVHZ)
S-M-3	G33, L6	V-Force Vapor Barrier Membrane installed as <i>Air Barrier</i> over loose-laid <i>DensDeck Prime</i>	OPTIONAL Insulation	<i>Preliminarily Secured</i> or Secured with Top Layer	Min. 1.5-inch ISO or ISO CG	<i>AP Fasteners and Plates</i> secured min. 6 per 4-ft x 8-ft board	EZ TPO (120-inch wide)	Attached in-lap 6-inch o.c. with <i>HD Fasteners & Plates</i> ; Fastener rows 114-inch o.c.	-37.5 (Lim. 7; Non-HVHZ)
S-M-4	G33, F1, L6, S24	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	EZ TPO	UltraPly QuickSeam R.M.A Strip attached 72-inch o.c. and secured with Polymer Batten Strip and Heavy-Duty fasteners spaced 12-inch o.c. along the batten	-37.5 (Lim. 7; Non-HVHZ)
S-M-5	G80, F1, L6, S24	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	Min. 60 mil EZ TPO (120-inch wide)	Attached in-lap 12-inch o.c. with <i>HD Fasteners & Plates</i> ; Side laps spaced 114-inch o.c.	-37.5 (Lim. 7; Non-HVHZ)
S-M-6	G80, F1, L6, S24	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	EZ TPO	UltraPly QuickSeam R.M.A Strip attached 114-inch o.c. and secured with <i>HD Fasteners & Plates</i> spaced 12-inch o.c.	-37.5 (Lim. 7; Non-HVHZ)

APPENDIX B

Mechanically Fastened Assemblies over <i>Steel Deck</i> (New or Existing)									
System No.	Deck Detail	Air/Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
S-M-7	G33	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	<i>EZ TPO</i> (48-inch wide)	Attached in-lap 24-inch o.c. with <i>HD Fasteners & Plates</i> ; Fastener rows 42-inch o.c.	-45 (Lim. 7; Non-HVHZ)
S-M-8	G33	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	<i>EZ TPO</i>	UltraPly QuickSeam R.M.A Strip attached 48-inch o.c. and secured with <i>HD Fasteners & Plates</i> spaced 24-inch o.c.	-45 (Lim. 7; Non-HVHZ)
S-M-9	G33	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	<i>EZ TPO</i>	UltraPly QuickSeam R.M.A Strip attached 48-inch o.c. and secured with Polymer Batten Strip and Heavy-Duty fasteners spaced 24-inch o.c. along the batten	-45 (Lim. 7; Non-HVHZ)
S-M-10	G33, F1, L6, S24	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	<i>EZ TPO</i> (120-inch wide)	Attached in-lap 12-inch o.c. with <i>HD Fasteners & Plates</i> ; Fastener rows spaced 114-inch o.c.; UltraPly QuickSeam R.M.A Strip attached evenly spaced between side laps and secured with Polymer Batten Strip and Heavy-Duty fasteners spaced 12-inch o.c. along the batten	-45 (Lim. 7)
S-M-11	G33, P, L6, S24	<i>DensDeck Prime</i> loose-laid with V-Force Vapor Barrier Membrane installed as <i>Air Barrier</i>	OPTIONAL Insulation	<i>Preliminarily Secured</i> or Secured with Top Layer	Min. 2-inch ISO, ISO CG or ISO GARD HD Composite	<i>AP Fasteners and Plates</i> secured min. 8 per 4-ft x 8-ft board	<i>EZ TPO</i> (120-inch wide)	Attached in-lap 12-inch o.c. with <i>HD Fasteners & Plates</i> ; Fastener rows 114-inch o.c.	-45 (Lim. 7)
S-M-12	G33, P, L6	-	Min. 0.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	<i>EZ TPO</i> (96-inch wide)	Attached in-lap 12-inch o.c. with <i>HD Plus Fasteners & Plates</i> ; Fastener rows 90-inch o.c.	-45 (Lim. 7)

APPENDIX B

Mechanically Fastened Assemblies over Steel Deck (New or Existing)									
System No.	Deck Detail	Air/Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
S-M-13	G33, F1, L6, S24	V-Force Vapor Barrier Membrane installed as Air Barrier	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch ISO, ISO CG or ISOGARD HD Composite	Insulation Fastening Plates and Elevate Heavy Duty fasteners secured min. 4 per 4-ft x 8-ft board	EZ TPO (120-inch wide)	Attached in-lap 12-inch o.c. with HD Fasteners & Plates; Side laps spaced 114-inch o.c.	-45 (Lim. 7)
S-M-14	G33, F1, L6, S24	V-Force Vapor Barrier Membrane installed as Air Barrier	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch ISO, ISO CG or ISOGARD HD Composite	Insulation Fastening Plates and Elevate Heavy Duty fasteners secured min. 6 per 4-ft x 8-ft board	EZ TPO (148-inch wide)	Attached in-lap 12-inch o.c. with HD Fasteners & Plates; Side laps spaced 142-inch o.c.	-45 (Lim. 7)
S-M-15	G80, F1, L6, S24	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	EZ TPO (120-inch wide)	Attached in-lap 12-inch o.c. with HD Plus Fasteners & Plates; Fastener rows 114-inch o.c.	-45 (Lim. 7)
S-M-16	G80, F1, L6, S24	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	EZ TPO (96-inch wide)	Attached in-lap 12-inch o.c. with HD Fasteners & Plates; Fastener rows 90-inch o.c.	-45 (Lim. 7)
S-M-17	G33, F1, L6, S24	-	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	EZ TPO (96-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 90-inch o.c.	-45 (Lim. 7)
S-M-18	G33, F1 or P, L6, S24	-	Min. 1-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	EZ TPO (148-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 142-inch o.c.	-45 (Lim. 7)
S-M-19	G33, F1, L6, S24	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	EZ TPO	UltraPly QuickSeam R.M.A Strip attached 72-inch o.c. and secured with HD Fasteners & Plates spaced 12-inch o.c.	-45 (Lim. 7)
S-M-20	G80, F1, L6, S24	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	EZ TPO	UltraPly QuickSeam R.M.A Strip attached 114-inch o.c. and secured with HD Plus Fasteners & Plates spaced 12-inch o.c.	-45 (Lim. 7)

APPENDIX B

Mechanically Fastened Assemblies over Steel Deck (New or Existing)									
System No.	Deck Detail	Air/Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
S-M-21	G33, F1, L6, S24	V-Force Vapor Barrier Membrane installed as Air Barrier over loose-laid SECUROCK	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 3-inch ISO 95-GL, ISO CG, or ISO HD-C	Insulation fastening plates and Heavy Duty fasteners secured 8 per 4 ft. x 8 ft. board	EZ TPO (120-inch wide)	Attached in-lap 12-inch o.c. with HD Fasteners & Plates; Side laps spaced 114-inch o.c.	-52.5 (Lim. 7)
S-M-22	G80, F1, L6, S24	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	EZ TPO (148-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 142-inch o.c.	-52.5 (Lim. 7)
S-M-23	G33, P, L6, S24	-	Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	EZ TPO (96-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 90-inch o.c.	-52.5 (Lim. 7)
S-M-24	G33, P, L6, S24	-	Min. 1-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	Min. 60 mil EZ TPO (148-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 142-inch o.c.	-52.5 (Lim. 7)
S-M-25	G33, L6, HXH1, HS24	-	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	Min. 60 mil EZ TPO (148-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 142-inch o.c.	-52.2 (Lim. 7)
S-M-26	G33, P, L6, S24	-	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	EZ TPO (120-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 114-inch o.c.	-52.5 (Lim. 7)
S-M-27	G33, F1, L6, S24	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	Min. 60 mil EZ TPO (60-inch wide)	Attached in-lap 12-inch o.c. with HD Fasteners & Plates; Fastener rows 54-inch o.c.	-52.5 (Lim. 7)
S-M-28	G33, P, L6, S24	-	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	Min. 60 mil EZ TPO (120-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 114-inch o.c.	-60 (Lim. 7)
S-M-29	G33, L6, HXH1, HS24	-	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	Min. 60 mil EZ TPO (120-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 114-inch o.c.	-60 (Lim. 7)

APPENDIX B

Mechanically Fastened Assemblies over Steel Deck (New or Existing)									
System No.	Deck Detail	Air/Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
S-M-30	G33, F1, L6, S24	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	EZ TPO (148-inch wide)	Attached in-lap 6-inch o.c. with HD Plus Fasteners & Plates; Fastener rows 142-inch o.c.	-60 (Lim. 7)
S-M-31	G33, P, L6, S24	-	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	EZ TPO (96-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 89-inch o.c.; 7-inch wide side lap	-60 (Lim. 7)
S-M-32	G33, F1, L6, S12	-	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	Min. 60 mil EZ TPO (120-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 114-inch o.c.	-60 (Lim. 7)
S-M-33	G33, P, L6, S24	-	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	Min. 60 mil EZ TPO (96-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 89-inch o.c.	-60 (Lim. 7)
S-M-34	G33, F, L6, S24	-	Min. 2-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	EZ TPO (60-inch wide)	Attached in-lap 12-inch o.c. with HD Plus Fasteners & Plates; Fastener rows 54-inch o.c.	-60 (Lim. 7)
S-M-35	G33, F1, L6, S24	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	EZ TPO (120-inch wide)	Attached in-lap 6-inch o.c. with HD Plus Fasteners & Plates; Fastener rows 114-inch o.c.	-67.5 (Lim. 7)
S-M-36	G33, P, L6, S24	6 mil polyethylene sheet; 6-inch wide laps sealed with duct tape	Min. 2-inch Insulation	AP Fasteners & Plates secured 8 per 4 ft. x 8 ft. board	OPTIONAL Cover Board	Preliminarily Secured	EZ TPO (96-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 89-inch o.c.	-67.5 (Lim. 7)
S-M-37	G33, P, L6	-	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Preliminarily Secured	EZ TPO (120-inch wide)	Attached in-lap 6-inch o.c. with HD Plus Fasteners & Plates; Fastener rows 114-inch o.c.	-67.5 (Lim. 7)

APPENDIX B

Mechanically Fastened Assemblies over <i>Steel Deck</i> (New or Existing)									
System No.	Deck Detail	Air/Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
S-M-38	G33, F1, L6, S24	-	Min. 0.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	EZ TPO (120-inch wide)	Attached in-lap 6-inch o.c. with Heavy-Duty Plus Fasteners and Polymer Batten Strips; Fastener rows 114-inch o.c.; Min. 5-inch wide heat weld encapsulating batten and fasteners	-75 (Lim. 7)
S-M-39	G80, F1, L6, S24	-	Min. 0.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	EZ TPO (120-inch wide)	Attached in-lap 6-inch o.c. with Heavy-Duty Fasteners and Coiled Metal Batten Bar; Fastener rows 114-inch o.c.; Min. 5-inch wide heat weld encapsulating batten and fasteners	-75 (Lim. 7)
S-M-40	G33, F1, L6, S24	(2) layers of V-Force Vapor Barrier Membrane installed as <i>Air Barrier</i>	OPTIONAL Insulation	<i>Preliminarily Secured</i> or secured with top layer	Min. 3-inch ISO, ISO CG or ISOGARD HD Composite	Insulation Fastening Plates and Elevate Heavy Duty fasteners secured 6 per 4-ft x 8-ft board	EZ TPO (148-inch wide)	Attached in-lap 12-inch o.c. with <i>HD Fasteners & Plates</i> ; Side laps spaced 142-inch o.c.	-82.5 (Lim. 7)
S-M-41	G80, F2, L6, S24	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	EZ TPO (74-inch wide)	Heavy Duty Fasteners and 0.75" Polymer Batten Strips centered in-lap and fastened 6-inch o.c.; Fastener rows 68-inch o.c.; Min. 5-inch wide heat weld encapsulating plates and fasteners	-82.5 (Lim. 7)
S-M-42	G80, F1, L6, S24	-	Min. 0.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	EZ TPO (96-inch wide)	Attached in-lap 6-inch o.c. with <i>HD Plus Fasteners & Plates</i> ; Fastener rows 90-inch o.c.; Min. 5-inch wide heat weld encapsulating plates and fasteners	-82.5 (Lim. 7)

APPENDIX B

Mechanically Fastened Assemblies over <i>Steel Deck</i> (New or Existing)									
System No.	Deck Detail	Air/Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
S-M-43	G80, F1, L6, S24	-	Min. 0.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	EZ TPO (96-inch wide)	Attached in-lap 6-inch o.c. with Heavy-Duty Plus Fasteners and Coiled Metal Batten Bar;; Fastener rows 90-inch o.c.; Min. 5-inch wide heat weld encapsulating batten and fasteners	-97.5 (Lim. 7)
S-M-44	G33, F1, L6, S24	-	Min. 0.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	Min. 60 mil EZ TPO (96-inch wide)	Attached in-lap 6-inch o.c. with <i>HD Plus Fasteners & Plates</i> ; Fastener rows 90-inch o.c.; Min. 5-inch wide heat weld encapsulating plates and fasteners	-112.5 (Lim. 7)
S-M-45	G80, F2, L6, S24	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	EZ TPO (148-inch wide)	Heavy Duty Plus Fasteners and 0.75" Polymer Batten Strips centered in-lap and fastened 6-inch o.c.; Intermediate row in field of sheet with fasteners 6-inch o.c.; Fastener rows spaced 71-inch o.c.; Min. 5-inch wide heat weld encapsulating plates and fasteners in-lap; 5-inch wide EZ TPO cover strip heat welded 1.5-inch wide on either side of battens in field row	-135 (Lim. 7)

APPENDIX B

Induction Welded Assemblies over <i>Steel Deck</i> (New or Existing)									
System No.	Deck Detail	Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
S-W-1	G33	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	<i>Invisiweld-S II</i> fastened at a rate of 6 per 4 ft. x 8 ft. board; Plate pattern offset 12-inches from each adjacent row of insulation boards; Boards set with length perpendicular to deck ribs	EZ TPO	Induction welded to Invisiweld-S plates	-37.5 (Lim. 7 Non-HVHZ)
S-W-2	G33, L6, F1 or P	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	<i>Invisiweld-S II</i> fastened 12-inch o.c. in rows 5-ft o.c.	EZ TPO	Induction welded to Invisiweld-S plates	-37.5 (Lim. 7 Non-HVHZ)
S-W-3	G33, L6, P, S24	-	Min. 1-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	<i>InvisiWeld</i> fastened 6-inch o.c. in rows spaced 144-inch o.c.	EZ TPO	Induction welded to InvisiWeld plates	-37.5 (Lim. 7; Non-HVHZ)
S-W-4	G33, L6, F1, S30	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	<i>Invisiweld-S II</i> fastened at a rate of 8 per 4 ft. x 8 ft. board; Plate pattern offset 12-inches from each adjacent row of insulation boards; Boards set with length perpendicular to deck ribs	EZ TPO	Induction welded to Invisiweld-S plates	-45 (Lim. 7)
S-W-5	G33, L6, F1 or P	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	<i>Invisiweld-S II</i> fastened at a rate of 1 fastener per 6 ft ² in a staggered, 2 ft. x 3 ft. grid	EZ TPO	Induction welded to Invisiweld-S plates	-45 (Lim. 7)
S-W-6	G33, L5	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	<i>InvisiWeld</i> fastened at a rate of 6 per 4 ft. x 8 ft. board; Plate pattern offset 12-inches from each adjacent row of insulation boards; Boards set with length perpendicular to deck ribs	EZ TPO	Induction welded to InvisiWeld plates	-45 (Lim. 7; Non-HVHZ)
S-W-7	G33, P, L6, S24	-	Min. 1-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	<i>InvisiWeld</i> fastened at a rate of 8 per 4 ft. x 8 ft. board	EZ TPO	Induction welded to InvisiWeld plates	-45 (Lim. 7)

APPENDIX B

Induction Welded Assemblies over <i>Steel Deck</i> (New or Existing)									
System No.	Deck Detail	Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
S-W-8	G80, F2, L7, S24	-	Min. 1-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>InvisiWeld</i> fastened 12" o.c. in rows 6-ft o.c. over <i>Preliminarily Secured</i> board	Min. 60 mil EZ TPO	Induction welded to <i>InvisiWeld</i> plates	-45 (Lim. 7)
S-W-9	G33, F1, L6, S24	V-Force Vapor Barrier Membrane installed as <i>Air Barrier</i>	OPTIONAL Insulation	<i>Preliminarily Secured</i> or secured with top layer	Min. 2.5-inch/ISO, ISO CG or ISO HD-C	<i>InvisiWeld</i> fastened at a rate of 8 per 4 ft. x 8 ft. board	EZ TPO	Induction welded to <i>InvisiWeld</i> plates	-52.5 (Lim. 7)
S-W-10	G33, F1, L6, S24	V-Force Vapor Barrier Membrane installed as <i>Air Barrier</i> adhered over loose-laid <i>SECUROCK</i>	OPTIONAL Insulation	<i>Preliminarily Secured</i> or secured with top layer	Min. 2.5-inch/ISO, ISO CG or ISO HD-C	<i>InvisiWeld</i> fastened at a rate of 8 per 4 ft. x 8 ft. board	EZ TPO	Induction welded to <i>InvisiWeld</i> plates	-52.5 (Lim. 7)
S-W-11	22 GA Type N; G80, HXH1, L12, HS24	-	Min. 1-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Invisiweld-S</i> fastened at a rate of 8 per 4 ft. x 8 ft. board; Plate pattern offset 8-inches from each adjacent row of insulation boards; Boards set with length perpendicular to deck ribs	EZ TPO	Induction welded to <i>InvisiWeld</i> plates	-52.5 (Lim. 7)
S-W-12	G33, F1, L6, S30	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>InvisiWeld</i> fastened at a rate of 8 per 4 ft. x 8 ft. board; Plate pattern offset 12-inches from each adjacent row of insulation boards; Boards set with length perpendicular to deck ribs	EZ TPO	Induction welded to <i>InvisiWeld</i> plates	-60 (Lim. 7)
S-W-13	G33, L6, F1 or P	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>Invisiweld-S II</i> fastened at a rate of 1 fastener per 4 ft ² in a staggered 2 ft x 2 ft grid	EZ TPO	Induction welded to <i>Invisiweld-S</i> plates	-60 (Lim. 7)
S-W-14	G80, F2, L7, S24	-	Min. 1-inch Insulation	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL Cover Board	<i>InvisiWeld</i> fastened at a rate of 8 per 4 ft. x 8 ft. board	Min. 60 mil EZ TPO	Induction welded to <i>InvisiWeld</i> plates	-60 (Lim. 7)

APPENDIX B

Induction Welded Assemblies over <i>Steel Deck</i> (New or Existing)									
System No.	Deck Detail	Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
S-W-15	G33, L6, HXE1, HS24	-	Min. 1-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	InvisiWeld fastened 6-inch o.c. in rows spaced 144-inch o.c.	EZ TPO	Induction welded to InvisiWeld plates	-60 (Lim. 7)
S-W-16	G33, L6, F1, S30	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Invisiweld-S fastened at a rate of 10 per 4 ft. x 8 ft. board; Plate pattern offset 12-inches from each adjacent row of insulation boards; Boards set with length perpendicular to deck ribs	EZ TPO	Induction welded to Invisiweld-S plates	-75 (Lim. 7)
S-W-17	G33, F1, L6, S30	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	InvisiWeld fastened at a rate of 12 per 4 ft. x 8 ft. board; Plate pattern offset 12-inches from each adjacent row of insulation boards; Boards set with length perpendicular to deck ribs	EZ TPO	Induction welded to InvisiWeld plates	-75 (Lim. 7)
S-W-18	G33, P, L6, S24	-	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	InvisiWeld fastened at a rate of 12 per 4 ft. x 8 ft. board (Alt. Pattern)	EZ TPO	Induction welded to InvisiWeld plates	-75 (Lim. 7)
S-W-19	22 GA Type N; G80, HXH1, L12, HS24	-	Min. 1-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Invisiweld-S fastened at a rate of 12 per 4 ft. x 8 ft. board; Plate pattern offset 8-inches from each adjacent row of insulation boards; Boards set with length perpendicular to deck ribs	Min. 60 mil EZ TPO	Induction welded to InvisiWeld plates	-75 (Lim. 7)
S-W-20	G33, L6, F1 or P	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Invisiweld-S II fastened at a rate of 1 fastener per 3-ft ² in a staggered 1.5 ft x 2 ft grid	EZ TPO	Induction welded to Invisiweld-S plates	-82.5 (Lim. 7)
S-W-21	G33, L6, HXE1, HS24	-	Min. 1-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	InvisiWeld fastened 6-inch o.c. in rows spaced 72-inch o.c.	EZ TPO	Induction welded to InvisiWeld plates	-82.5 (Lim. 7)

APPENDIX B

Induction Welded Assemblies over <i>Steel Deck</i> (New or Existing)									
System No.	Deck Detail	Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
S-W-22	G80, L6, F1 or P	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Invisiweld-S II fastened 6-inch o.c. in rows 60-inch o.c.	EZ TPO	Induction welded to Invisiweld-S plates	-90 (Lim. 7)
S-W-23	G3, F2, L6, S12	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	InvisiWeld fastened at a rate of 16 per 4 ft. x 8 ft. board; Plate pattern offset 12-inches from each adjacent row of insulation boards; Boards set with length perpendicular to deck ribs	EZ TPO	Induction welded to InvisiWeld plates	-105 (Lim. 7)

Assemblies with All Layers Adhered over <i>Wood Deck</i> (New or Existing)								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
W-A-1	T15/32P	OPTIONAL DensDeck Prime	I.S.O. Stick; ribbons 12-inch o.c.	Min. 1-inch ISO CG or ISO	I.S.O. Stick; ribbons 12-inch o.c.	EZ TPO	Membrane Adhesive IV	-45 (Lim. 9; Non-HVHZ)
W-A-2	T7/16O or T15/32P, L24	DensDeck Prime	I.S.O. IA; ribbons 12-inch o.c.	-	-	EZ TPO	Membrane Adhesive IV	-45 (Lim. 9; Non-HVHZ)
W-A-3	T7/16O or T15/32P, L24	DensDeck Prime	I.S.O. IA; ribbons 12-inch o.c.	-	-	EZ FB TPO	FB-BA, PermaMop; HA or TJ-S	-45 (Lim. 9; Non-HVHZ)
W-A-4	T19/32O, L24, N6/6	DensDeck Prime or SECURROCK	I.S.O. Fix II; ribbons 6-inch o.c.	-	-	EZ TPO	Membrane Adhesive V	-67.5 (Lim. 9; Non-HVHZ)
W-A-5	T19/32O, L24, N6/6	DensDeck Prime or SECURROCK	I.S.O. Fix II; ribbons 6-inch o.c.	-	-	EZ FB TPO	PermaMop; HA	-67.5 (Lim. 9; Non-HVHZ)

APPENDIX B

Assemblies with All Layers Adhered over <i>Wood Deck (New or Existing)</i>								
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
W-A-6	T7/160, L24, N6/6	DensDeck Prime	I.S.O. Spray R ribbons spaced 12-inch o.c.	-	-	EZ FB TPO	TJ-R or I.S.O. Spray R ribbons spaced 12-inch o.c. or TJ-S	-75 (Lim. 9; Non-HVHZ)
W-A-7	T15/32P, L24, N6/6	0.5-inch DensDeck Prime	I.S.O. Fix II; ribbons 6-inch o.c.	-	-	EZ TPO	Membrane Adhesive V	-75 (Lim. 9; Non-HVHZ)
W-A-8	T15/32P, L24, N6/6	0.5-inch DensDeck Prime	I.S.O. Fix II; ribbons 6-inch o.c.	-	-	EZ FB TPO	FB-BA, PermaMop; HA or TJ-S	-75 (Lim. 9; Non-HVHZ)
W-A-9	T15/32P, L24, N6/6	0.5-inch DensDeck Prime	I.S.O. Spray R ribbons spaced 6-inch o.c.	-	-	EZ TPO	Membrane Adhesive II	-90 (Lim. 9; Non-HVHZ)
W-A-10	T15/32P, L24, N6/6	0.5-inch DensDeck Prime	I.S.O. Spray R ribbons spaced 6-inch o.c.	-	-	EZ FB TPO	FB-BA, PermaMop; HA or TJ-S	-90 (Lim. 9; Non-HVHZ)
W-A-11	T7/160, L24, N6/6	SECURROCK	I.S.O. Spray R ribbons spaced 6-inch o.c.	-	-	EZ FB TPO	I.S.O. Spray R ribbons spaced 6-inch o.c. or TJ-S	-90 (Lim. 9; Non-HVHZ)

Assemblies with Adhered Membranes over Insulated <i>Wood Deck (New, Existing or Recover)</i>								
System No.	Deck Detail	Base Insulation or Base Sheet	Base Insulation or Base Sheet Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
W-AM-1	T7/160	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	SECURROCK	HD Fasteners & Plates secured at a rate of 10 per 4-ft x 8-ft board (Alt. Pattern)	EZ TPO	Membrane Adhesive V	-30 (Lim. 7; Non-HVHZ)
W-AM-2	T7/160	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	SECURROCK	HD Fasteners & Plates secured at a rate of 10 per 4-ft x 8-ft board (Alt. Pattern)	EZ FB TPO	FB-BA, PermaMop; HA or TJ-S	-30 (Lim. 7; Non-HVHZ)

APPENDIX B

Assemblies with Adhered Membranes over Insulated Wood Deck (New, Existing or Recover)								
System No.	Deck Detail	Base Insulation or Base Sheet	Base Insulation or Base Sheet Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
W-AM-3	T15/32P, L24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured at a rate of 8 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive V	-37.5 (Lim. 7; Non-HVHZ)
W-AM-4	T15/32P, L24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured at a rate of 8 per 4-ft x 8-ft board	EZ FB TPO	FB-BA, PermaMop; HA or TJ-S	-37.5 (Lim. 7; Non-HVHZ)
W-AM-5	T7/16O or T15/32P, L24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck	AP Fasteners & Plates secured at a rate of 12 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive V	-37.5 (Lim. 7; Non-HVHZ)
W-AM-6	T7/16O or T15/32P, L24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck	AP Fasteners & Plates secured at a rate of 12 per 4-ft x 8-ft board	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JBSA	-37.5 (Lim. 7; Non-HVHZ)
W-AM-7	T7/16O or T15/32P, L24	SBS Base	32 ga. x 1-5/8" tin tabs and 12 ga. x 1.25" ring shank nails 6-inch o.c. in 3-inch lap and 6-inch o.c. in three (3) staggered rows equally spaced between laps	-	-	EZ FB TPO	FB-S or I.S.O. Spray R; ribbons spaced 12-inch o.c. or TJ-S	-37.5 (Lim. 7; Non-HVHZ)
W-AM-8	T19/32P, L24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	ISO HD	AP Fasteners & Plates secured at a rate of 12 per 4-ft x 8-ft board	Min. 60 mil EZ TPO	Membrane Adhesive V	-37.5 (Lim. 7; Non-HVHZ)
W-AM-9	T7/16O, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1-inch ISO CG	AP Fasteners & Plates secured at a rate of 18 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive V	-37.5 (Lim. 7; Non-HVHZ)
W-AM-10	T7/16O, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1-inch ISO CG	AP Fasteners & Plates secured at a rate of 18 per 4-ft x 8-ft board	EZ FB TPO	FB-S or TJ-R ribbon adhered 6-inch o.c. or I.S.O. Spray R ribbon adhered 12-inch o.c., TJ-S or JBSA	-37.5 (Lim. 7; Non-HVHZ)

APPENDIX B

Assemblies with Adhered Membranes over Insulated Wood Deck (New, Existing or Recover)								
System No.	Deck Detail	Base Insulation or Base Sheet	Base Insulation or Base Sheet Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
W-AM-11	T19/32P, L24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	2-inch ISO CG	AP Fasteners & Plates secured at a rate of 8 per 4-ft x 8-ft board	Min. 60 mil EZ TPO	Membrane Adhesive V	-42.5 (Lim. 7; Non-HVHZ)
W-AM-12	T15/32P, L24, N12/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	SECUROCK	AP Fasteners & Plates secured at a rate of 20 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive V	-45 (Lim. 7)
W-AM-13	T15/32P, L24, N12/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	SECUROCK	AP Fasteners & Plates secured at a rate of 20 per 4-ft x 8-ft board	EZ TPO P&S HW (HVHZ ONLY)	Self-Adhered	-45 (Lim. 7)
W-AM-14	T15/32P, L24, N12/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	SECUROCK	AP Fasteners & Plates secured at a rate of 20 per 4-ft x 8-ft board	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JBSA	-45 (Lim. 7)
W-AM-15	T7/16O or T15/32P, L24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck Prime or SECUROCK	AP Fasteners & Plates secured at a rate of 12 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive V	-45 (Lim. 7; Non-HVHZ)
W-AM-16	T7/16O or T15/32P, L24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck Prime or SECUROCK	AP Fasteners & Plates secured at a rate of 12 per 4-ft x 8-ft board	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JBSA	-45 (Lim. 7; Non-HVHZ)
W-AM-17	T15/32P, L24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured 8 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive V	-45 (Lim. 7; Non-HVHZ)
W-AM-18	T15/32P, L24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured 8 per 4 ft. x 8 ft. board	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JBSA	-45 (Lim. 7; Non-HVHZ)
W-AM-19	T19/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1-inch ISO CG	AP Fasteners & Plates secured at a rate of 20 per 4-ft x 8-ft board	EZ TPO	TPO Bonding Adhesive or JBSA	-45 (Lim. 7)
W-AM-20	T19/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1-inch ISO CG	AP Fasteners & Plates secured at a rate of 20 per 4-ft x 8-ft board	EZ TPO P&S HW (HVHZ ONLY)	Self-Adhered	-45 (Lim. 7)

APPENDIX B

Assemblies with Adhered Membranes over Insulated Wood Deck (New, Existing or Recover)								
System No.	Deck Detail	Base Insulation or Base Sheet	Base Insulation or Base Sheet Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
W-AM-21	T15/32, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck Prime	AP Fasteners & Plates secured at a rate of 18 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive V	-45 (Lim. 7)
W-AM-22	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck Prime	AP Fasteners & Plates secured at a rate of 18 per 4-ft x 8-ft board	EZ TPO P&S HW (HVHZ ONLY)	Self-Adhered	-45 (Lim. 7)
W-AM-23	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck Prime	AP Fasteners & Plates secured at a rate of 18 per 4-ft x 8-ft board	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JBSA	-45 (Lim. 7)
W-AM-24	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	SBS Base-P	AP Fasteners & Plates 12-inch o.c. in 3-3/8" lap and 12-inch o.c. in two (2) evenly spaced staggered rows	EZ FB TPO	I.S.O. Spray R ribbon adhered 12-inch o.c.	-45 (Lim. 7)
W-AM-25	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISOGARD HD Composite	AP Fasteners & Plates secured at a rate of 12 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive V	-45 (Lim. 7)
W-AM-26	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISOGARD HD Composite	AP Fasteners & Plates secured at a rate of 12 per 4-ft x 8-ft board	EZ TPO P&S HW (HVHZ ONLY)	Self-Adhered	-45 (Lim. 7)
W-AM-27	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISOGARD HD Composite	AP Fasteners & Plates secured at a rate of 12 per 4-ft x 8-ft board	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; TJ-S or JBSA	-45 (Lim. 7)
W-AM-28	T7/160, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	SECUROCK, DensDeck Prime	AP Fasteners & Plates secured at a rate of 20 per 4-ft x 8-ft board	EZ FB TPO	HA; PermaMop; FB-BA or TJ-S	-45 (Lim. 7; Non-HVHZ)
W-AM-29	T7/160, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck Prime, SECUROCK, Min. 1-inch ISO CG or Min. 1.5-inch ISOGARD HD Composite	AP Fasteners & Plates secured at a rate of 20 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive V	-45 (Lim. 7; Non-HVHZ)

APPENDIX B

Assemblies with Adhered Membranes over Insulated Wood Deck (New, Existing or Recover)								
System No.	Deck Detail	Base Insulation or Base Sheet	Base Insulation or Base Sheet Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
W-AM-30	T7/160, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck Prime, SECUROCK, Min. 1-inch ISO CG or Min. 1.5-inch ISOGARD HD Composite	AP Fasteners & Plates secured at a rate of 20 per 4-ft x 8-ft board	EZ FB TPO	FB-S, TJ-R ribbon adhered 6-inch o.c. or I.S.O. Spray R ribbon adhered 12-inch o.c. or TJ-S	-45 (Lim. 7; Non-HVHZ)
W-AM-31	T7/160, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime or Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured at a rate of 18 per 4-ft x 8-ft board	EZ FB TPO	HA; PermaMop; FB-BA or TJ-S	-45 (Lim. 7; Non-HVHZ)
W-AM-32	T7/160, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime, Min. 0.5-inch SECUROCK, Min. 2-inch ISO CG or Min. 1.5-inch ISOGARD HD Composite	AP Fasteners & Plates secured at a rate of 18 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive V	-45 (Lim. 7; Non-HVHZ)
W-AM-33	T7/160, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime, Min. 0.5-inch SECUROCK, Min. 2-inch ISO CG or Min. 1.5-inch ISOGARD HD Composite	AP Fasteners & Plates secured at a rate of 18 per 4-ft x 8-ft board	EZ FB TPO	FB-S, TJ-R ribbon adhered 6-inch o.c. or I.S.O. Spray R ribbon adhered 12-inch o.c.; TJ-S or JBSA	-45 (Lim. 7; Non-HVHZ)
W-AM-34	T15/32P, L24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 2-inch ISO CG or ISO	HD Fasteners and Plates secured at a rate of 8 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive V	-45 (Lim. 7; Non-HVHZ)
W-AM-35	T15/32P, L24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 2-inch ISO CG or ISO	HD Fasteners and Plates secured at a rate of 8 per 4-ft x 8-ft board	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; TJ-S or JBSA	-45 (Lim. 7; Non-HVHZ)

APPENDIX B

Assemblies with Adhered Membranes over Insulated Wood Deck (New, Existing or Recover)								
System No.	Deck Detail	Base Insulation or Base Sheet	Base Insulation or Base Sheet Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
W-AM-36	T15/32P, L24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISO CG or ISO	HD Fasteners and Plates secured at a rate of 12 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive V	-45 (Lim. 7; Non-HVHZ)
W-AM-37	T15/32P, L24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISO CG or ISO	HD Fasteners and Plates secured at a rate of 12 per 4-ft x 8-ft board	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; TJ-S or JBSA	-45 (Lim. 7; Non-HVHZ)
W-AM-38	T7/16O, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DenDeck or SECUROCK	AP Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive V	-45 (Lim. 7; Non-HVHZ)
W-AM-39	T7/16O, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DenDeck or SECUROCK	AP Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft board	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JBSA	-45 (Lim. 7; Non-HVHZ)
W-AM-40	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	AP Fasteners & Plates secured at a rate of 18 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive V	-52.5 (Lim. 7)
W-AM-41	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	AP Fasteners & Plates secured at a rate of 18 per 4-ft x 8-ft board	EZ TPO P&S HW (HVHZ ONLY)	Self-Adhered	-52.5 (Lim. 7)
W-AM-42	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	AP Fasteners & Plates secured at a rate of 18 per 4-ft x 8-ft board	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA, TJ-S or JBSA	-52.5 (Lim. 7)
W-AM-43	T19/32P, L24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	AP Fasteners & Plates secured at a rate of 12 per 4-ft x 8-ft board	Min. 60 mil EZ TPO	Membrane Adhesive V	-52.5 (Lim. 9)
W-AM-44	T19/32P, L24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DensDeck Prime	AP Fasteners & Plates secured at a rate of 12 per 4-ft x 8-ft board	60 mil EZ TPO Peel and Stick HW (HVHZ ONLY)	Self-Adhered	-52.5 (Lim. 9)
W-AM-45	T15/32P, L24, N12/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured at a rate of 15 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive IV	-52.5 (Lim. 7)

APPENDIX B

Assemblies with Adhered Membranes over Insulated Wood Deck (New, Existing or Recover)								
System No.	Deck Detail	Base Insulation or Base Sheet	Base Insulation or Base Sheet Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
W-AM-46	T15/32P, L24, N12/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured at a rate of 15 per 4-ft x 8-ft board	EZ TPO P&S HW (HVHZ ONLY)	Self-Adhered	-52.5 (Lim. 7)
W-AM-47	T15/32P, L24, N12/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured at a rate of 15 per 4-ft x 8-ft board	EZ FB TPO	FB-BA, PermaMop; HA or TJ-S	-52.5 (Lim. 7)
W-AM-48	T7/16O, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1-inch ISO CG	AP Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive V	-52.5 (Lim. 7; Non-HVHZ)
W-AM-49	T7/16O, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1-inch ISO CG	AP Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft board	EZ FB TPO	FB-S, TJ-R ribbon adhered 6-inch o.c. or I.S.O. Spray R ribbon adhered 12-inch o.c.; TJ-S or JB-SA	-52.5 (Lim. 7; Non-HVHZ)
W-AM-50	T7/16O, L24, N6/6	Min. 1.5-inch ISO or ISO CG	AP Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft board	SECUROCK, DensDeck Prime, or ISO HD	Insulation Adhesive VI	EZ TPO	Membrane Adhesive II	-52.5 (Lim. 7; Non-HVHZ)
W-AM-51	T7/16O, L24, N6/6	Min. 1.5-inch ISO or ISO CG	AP Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft board	SECUROCK or DensDeck Prime	Insulation Adhesive VI	EZ FB TPO	FB-BA, PermaMop; HA or TJ-S	-52.5 (Lim. 7; Non-HVHZ)
W-AM-52	T7/16O, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	All-Purpose S Fasteners and Insulation Fastening Plates secured at a rate of 22 per 4-ft x 8-ft board	EZ FB TPO	FB-S or TJ-R ribbon adhered 6-inch o.c. or I.S.O. Spray R ribbon adhered 12-inch o.c.; FB-BA, PermaMop or HA; JB-SA or TJ-S	-52.5 (Lim. 7; Non-HVHZ)
W-AM-53	T7/16O, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISO HD-C	All-Purpose S Fasteners and Insulation Fastening Plates secured at a rate of 22 per 4-ft x 8-ft board	EZ FB TPO	FB-S or TJ-R ribbon adhered 6-inch o.c. or I.S.O. Spray R ribbon adhered 12-inch o.c.; JB-SA or TJ-S	-52.5 (Lim. 7; Non-HVHZ)
W-AM-54	T7/16O, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK or Min. 1.5-inch ISO HD-C	All-Purpose S Fasteners and Insulation Fastening Plates secured at a rate of 22 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive V	-52.5 (Lim. 7; Non-HVHZ)

APPENDIX B

Assemblies with Adhered Membranes over Insulated Wood Deck (New, Existing or Recover)								
System No.	Deck Detail	Base Insulation or Base Sheet	Base Insulation or Base Sheet Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
W-AM-55	T19/32P, L24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	ISO HD	AP Fasteners & Plates secured at a rate of 15 per 4-ft x 8-ft board	Min. 60 mil EZ TPO	Membrane Adhesive V	-55.0 (Lim. 9)
W-AM-56	T19/32P, L24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	ISO HD	AP Fasteners & Plates secured at a rate of 15 per 4-ft x 8-ft board	60 mil EZ TPO Peel and Stick HW (HVHZ ONLY)	Self-Adhered	-55.0 (Lim. 9)
W-AM-57	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISO CG	AP Fasteners & Plates secured at a rate of 18 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive V	-60 (Lim. 7)
W-AM-58	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISO CG	AP Fasteners & Plates secured at a rate of 18 per 4-ft x 8-ft board	EZ TPO P&S HW (HVHZ ONLY)	Self-Adhered	-60 (Lim. 7)
W-AM-59	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISO CG	AP Fasteners & Plates secured at a rate of 18 per 4-ft x 8-ft board	EZ FB TPO	FB-S, TJ-R or I.S.O. Spray R ribbon adhered 12-inch o.c.; TJ-S or JBSA	-60 (Lim. 7)
W-AM-60	T7/160, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured at a rate of 22 per 4-ft x 8-ft board	EZ FB TPO	FB-S or TJ-R ribbon adhered 6-inch o.c. or I.S.O. Spray R ribbon adhered 12-inch o.c.; FB-BA, PermaMop or HA; TJ-S or JBSA	-60 (Lim. 7; Non-HVHZ)
W-AM-61	T7/160, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISO HD-C	AP Fasteners & Plates secured at a rate of 22 per 4-ft x 8-ft board	EZ FB TPO	FB-S or TJ-R ribbon adhered 6-inch o.c. or I.S.O. Spray R ribbon adhered 12-inch o.c.; TJ-S or JBSA	-60 (Lim. 7; Non-HVHZ)
W-AM-62	T7/160, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK or Min. 1.5-inch ISO HD-C	AP Fasteners & Plates secured at a rate of 22 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive V	-60 (Lim. 7; Non-HVHZ)
W-AM-63	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured at a rate of 18 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive IV	-67.5 (Lim. 7)
W-AM-64	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured at a rate of 18 per 4-ft x 8-ft board	EZ TPO P&S HW (HVHZ ONLY)	Self-Adhered	-67.5 (Lim. 7)

APPENDIX B

Assemblies with Adhered Membranes over Insulated Wood Deck (New, Existing or Recover)								
System No.	Deck Detail	Base Insulation or Base Sheet	Base Insulation or Base Sheet Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
W-AM-65	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured at a rate of 18 per 4-ft x 8-ft board	EZ FB TPO	FB-BA, PermaMop; HA or TJ-S	-67.5 (Lim. 7)
W-AM-66	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DenDeck, min. 2-inch ISO CG, min. 1.5-inch ISO HD-C	AP Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft board	Min. 60 mil EZ TPO P&S HW (HVHZ ONLY)	Self-Adhered	-75 (Lim. 7)
W-AM-67	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DenDeck Prime	AP Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft board	Min. 60 mil EZ TPO	Membrane Adhesive V	-75 (Lim. 7)
W-AM-68	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch DenDeck Prime	AP Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft board	EZ FB TPO	FB-S or TJ-R adhered 4-inch o.c.; FB-BA, PermaMop; HA or TJ-S	-75 (Lim. 7)
W-AM-69	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 2-inch ISO CG, min. 1.5-inch ISO HD-C	AP Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft board	Min. 60 mil EZ TPO	TPO Bonding Adhesive or JB-SA	-75 (Lim. 7)
W-AM-70	T15/32P, L24, N6/6	Min. 1.5-inch ISO or ISO CG	AP Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft board	SECUROCK, DensDeck Prime, or ISO HD	Insulation Adhesive VI	EZ TPO	Membrane Adhesive V	-75 (Lim. 7)
W-AM-71	T15/32P, L24, N6/6	Min. 1.5-inch ISO or ISO CG	AP Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft board	SECUROCK, DensDeck Prime, or ISO HD	Insulation Adhesive VI	EZ TPO P&S HW (HVHZ ONLY)	Self-Adhered	-75 (Lim. 7)
W-AM-72	T15/32P, L24, N6/6	Min. 1.5-inch ISO or ISO CG	AP Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft board	SECUROCK or DensDeck Prime	Insulation Adhesive VI	EZ FB TPO	FB-BA, PermaMop; HA or TJ-S	-75 (Lim. 7)
W-AM-73	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive V	-82.5 (Lim. 7)
W-AM-74	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft board	EZ TPO P&S HW (HVHZ ONLY)	Self-Adhered	-82.5 (Lim. 7)
W-AM-75	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	AP Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft board	EZ FB TPO	FB-BA, PermaMop; HA or TJ-S	-82.5 (Lim. 7)

APPENDIX B

Assemblies with Adhered Membranes over Insulated Wood Deck (New, Existing or Recover)								
System No.	Deck Detail	Base Insulation or Base Sheet	Base Insulation or Base Sheet Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
W-AM-76	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	All-Purpose S Fasteners and Insulation Fastening Plates secured at a rate of 24 per 4-ft x 8-ft board	EZ TPO	TPO Bonding Adhesive or LVOC-1168 Bonding Adhesive	-90 (Lim. 7)
W-AM-77	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	All-Purpose S Fasteners and Insulation Fastening Plates secured at a rate of 24 per 4-ft x 8-ft board	EZ TPO P&S HW (HVHZ ONLY)	Self-Adhered	-90 (Lim. 7)
W-AM-78	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch SECUROCK	All-Purpose S Fasteners and Insulation Fastening Plates secured at a rate of 24 per 4-ft x 8-ft board	EZ FB TPO	FB-BA, PermaMop; HA or TJ-S	-90 (Lim. 7)

Mechanically Fastened Assemblies over Wood Deck (New or Existing)									
System No.	Deck Detail	Thermal Barrier or Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
W-M-1	T15/32P, L24	As required	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.5-inch Insulation	Preliminarily Secured	EZ TPO	UltraPly QuickSeam R.M.A Strip attached 8-ft o.c. and secured with All Purpose Fasteners 6-inch o.c. through the Polymer Batten Strip	-30 (Lim. 7; Non-HVHZ)
W-M-2	T7/16O or T15/32P, L24, N6	As required	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 0.25-inch Insulation	Preliminarily Secured	EZ TPO	UltraPly QuickSeam R.M.A Strip attached 5-ft o.c. and secured with HD Fasteners and Plates 6-inch o.c.	-30 (Lim. 7; Non-HVHZ)
W-M-3	T7/16O or T15/32P, L24, N6/6	OPTIONAL V-Force Vapor Barrier Membrane	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck or SECUROCK	Preliminarily Secured	EZ TPO (60-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 54-inch o.c.	-30 (Lim. 7; Non-HVHZ)
W-M-4	T7/16O or T15/32P, L24	As required	OPTIONAL Insulation	Preliminarily Secured	-	-	EZ TPO	UltraPly QuickSeam R.M.A Strip attached 4-ft o.c. and secured with All-Purpose Fasteners and HD Seam Plates 12-inch o.c.	-30 (Lim. 7; Non-HVHZ)

APPENDIX B

Mechanically Fastened Assemblies over <i>Wood Deck (New or Existing)</i>									
System No.	Deck Detail	Thermal Barrier or Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
W-M-5	T19/32O, L24, N6/6	As required	OPTIONAL Insulation	Preliminarily Secured	-	-	Min. 60 mil EZ TPO (96-inch wide)	Attached in-lap 9-inch o.c. with HD Fasteners & Plates; Fastener rows 90-inch o.c.	-30 (Lim. 7; Non-HVHZ)
W-M-6	T7/16O or T15/32P, L24, N6/6	As required	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck or SECUROCK	Preliminarily Secured	EZ TPO (48-inch wide)	Attached in-lap 18-inch o.c. with HD Fasteners & Plates; Fastener rows 42-inch o.c.	-37.5 (Lim. 7; Non-HVHZ)
W-M-7	T19/32O, L24, N6/6	As required	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Insulation	Preliminarily Secured	Min. 60 mil EZ TPO (120-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 114-inch o.c.	-37.5 (Lim. 7; Non-HVHZ)
W-M-8	T7/16O or T15/32P, L24,	As required	OPTIONAL Insulation	Preliminarily Secured	-	-	EZ TPO	UltraPly QuickSeam R.M.A Strip attached 4-ft o.c. and secured with All-Purpose Fasteners and HD Seam Plates 6-inch o.c.	-45 (Lim. 7; Non-HVHZ)
W-M-9	T19/32P, L24	As required	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck or SECUROCK	Preliminarily Secured	EZ TPO (48-inch wide)	Attached in-lap 12-inch o.c. with HD Fasteners & Plates; Fastener rows 42-inch o.c.	-45 (Lim. 7; Non-HVHZ)
W-M-10	T7/16O or T15/32P, L24	As required	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck or SECUROCK	Preliminarily Secured	EZ TPO (48-inch wide)	Attached in-lap 6-inch o.c. with HD Fasteners & Plates; Fastener rows 42-inch o.c.	-45 (Lim. 7; Non-HVHZ)
W-M-11	T19/32O, L24	As required	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck, SECUROCK	Preliminarily Secured	EZ TPO (48-inch wide)	Attached in-lap 24-inch o.c. with HD Fasteners & Plates; Fastener rows 42-inch o.c.	-45 (Lim. 7; Non-HVHZ)
W-M-12	T19/32P, L24, N6/6	As required	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck or SECUROCK	Preliminarily Secured	Min. 60 mil EZ TPO (120-inch wide)	Attached in-lap 5-inch o.c. with HD Fasteners & Plates; Fastener rows 114-inch o.c.	-45 (Lim. 7)
W-M-13	T19/32O, L24, N6/6	As required	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Insulation	Preliminarily Secured	Min. 60 mil EZ TPO (120-inch wide)	Attached in-lap 4-inch o.c. with HD Fasteners & Plates; Fastener rows 114-inch o.c.	-45 (Lim. 7; Non-HVHZ)

APPENDIX B

Mechanically Fastened Assemblies over <i>Wood Deck (New or Existing)</i>									
System No.	Deck Detail	Thermal Barrier or Vapor Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
W-M-14	T19/32O, L24, N6/6	As required	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Insulation	Preliminarily Secured	Min. 60 mil EZ TPO (96-inch wide)	Attached in-lap 5-inch o.c. with HD Fasteners & Plates; Fastener rows 90-inch o.c.	-52.5 (Lim. 7; Non-HVHZ)

Induction Welded Assemblies over <i>Wood Deck (New or Existing)</i>									
System No.	Deck Detail	Thermal Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
W-W-1	T15/32P, L24	As required	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck or SECUROCK	InvisiWeld fastened at a rate of 6 per 4 ft. x 8 ft. board	EZ TPO	Induction welded to InvisiWeld plates	-30 (Lim. 7; Non-HVHZ)
W-W-2	T19/32O, L24	As required	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck or SECUROCK	InvisiWeld fastened at a rate of 6 per 4 ft. x 8 ft. board	EZ TPO	Induction welded to InvisiWeld plates	-45 (Lim. 7; Non-HVHZ)
W-W-3	T7/16O or T15/32P, L24	As required	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck or SECUROCK	Preliminarily Secured	EZ TPO	Invisiweld secured 24-inch o.c. through deck into wood rafters/trusses in rows spaced 48-inch o.c.; Membrane welded to InvisiWeld plates	-45 (Lim. 7; Non-HVHZ)
W-W-4	T15/32P, L24	As required	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck or SECUROCK	InvisiWeld fastened at a rate of 8 per 4 ft. x 8 ft. board	EZ TPO	Induction welded to InvisiWeld plates	-52.5 (Lim. 7)
W-W-5	T19/32P, L24, N6/6	As required	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck or SECUROCK	InvisiWeld fastened at a rate of 12 per 4 ft. x 8 ft. board	EZ TPO	Induction welded to InvisiWeld plates	-52.5 (Lim. 7)
W-W-6	T15/32P, L24, N6/6	As required	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1-inch ISO, ISO CG, or ISO HD-C; DensDeck or SECUROCK	InvisiWeld fastened at a rate of 16 per 4 ft. x 8 ft. board	EZ TPO	Induction welded to InvisiWeld plates	-67.5 (Lim. 7; Non-HVHZ)

APPENDIX B

Induction Welded Assemblies over <i>Wood Deck</i> (New or Existing)									
System No.	Deck Detail	Thermal Barrier	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
W-W-7	T7/160 or T15/32P, L24, N6/6	As required	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck	Preliminarily Secured	EZ TPO	Invisiweld secured 6-inch o.c. through deck into wood rafters/trusses in rows spaced 96-inch o.c.;; Membrane Induction welded to InvisiWeld plates	-75 (Lim. 7)

END OF REPORT