



CREEK

TECHNICAL SERVICES, LLC

Certificate of Authorization No. 29824

17520 Edinburgh Drive

Tampa, FL 33647

(813) 480-3421

EVALUATION REPORT

FLORIDA BUILDING CODE, 7TH EDITION (2020)

Manufacturer: GENFLEX ROOFING SYSTEMS *Issued September 16, 2020*
A Division of Firestone Building Products Company, LLC
200 4th Avenue South
Nashville, TN 37201
(800) 443-4272
www.genflex.com

Manufacturing Plants: Tusculumbia, AL

Quality Assurance: UL LLC (QUA9625)

SCOPE

Category: Roofing
Subcategory: Single Ply Roof System
Code Edition: Florida Building Code, 7th Edition (2020) including High-Velocity Hurricane Zones (HVHZ)
Code Sections: 1504.3.1, 1504.6, 1504.7, 1507.2.4, 1507.1, 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 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 fabric 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 fabric 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. 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)	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)	797-07749-267	FM 4470 (2016)
FM Approvals (TST1867)	RR205572	FM 4470 (2016)
FM Approvals (TST1867)	RR207314	FM 4470 (2016)
FM Approvals (TST1867)	RR207553	FM 4470 (2016)
PRI Construction Materials Technologies (TST5878)	FBP-044-02-01.9	TAS 114(J) (2011); TAS 114(H) (1995); TAS 117(B) (1995)
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-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 (2013); 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 (2015a)
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 D 3746 [1985(2015)]
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)
GFX15001.2	FL17862-R2	

<u>Entity</u>	<u>Report No.</u>	<u>Standard (Year)</u>
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 (2012)
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 (2012)
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 (2012)
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 (2012)
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 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-230-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-233-02-03	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-235-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-235-02-02	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-238-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-238-02-03	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-239-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-240-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-241-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-242-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
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 (2012)
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 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-276-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-277-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)

<u>Entity</u>	<u>Report No.</u>	<u>Standard (Year)</u>
PRI Construction Materials Technologies (TST5878)	FBP-279-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
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 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-283-02-03	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-291-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-298-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-304-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-313-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
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 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-317-02-02	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
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 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-324-02-02	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-331-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-334-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-334-02-02	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
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 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-339-02-02A	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-339-02-02B	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-340-02-01A.1	UL 1897 (2012)
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 (2012)
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 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-355-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
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 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-359-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-362-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-363-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
PRI Construction Materials Technologies (TST5878)	FBP-367-02-01	FM 4474(D) (2011); TAS 114(J) (2011); UL 1897 (2012)
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 (2012)

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. 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. For perimeter and corner roof zones 2 and 3, the attachment density may be increased by a qualified design professional, as necessary, to meet the design pressure requirements in these areas. In the HVHZ, calculations shall be conducted in compliance with RAS 117 and/or RAS 137. Outside the HVHZ, commonly used standards include RAS 117, FM LPDS 1-29, or ANSI/SPRI WD-1.
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. 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.
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.

COMPLIANCE STATEMENT

The products evaluated by Zachary R. Priest, P.E. herein have demonstrated compliance with the Florida Building Code, 7th Edition (2020) including High-Velocity Hurricane Zones (HVHZ) as evidenced in the referenced documents submitted by the named manufacturer.



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 (6 pages)
- 2) APPENDIX B – Nomenclature and Approved Assemblies (6 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:

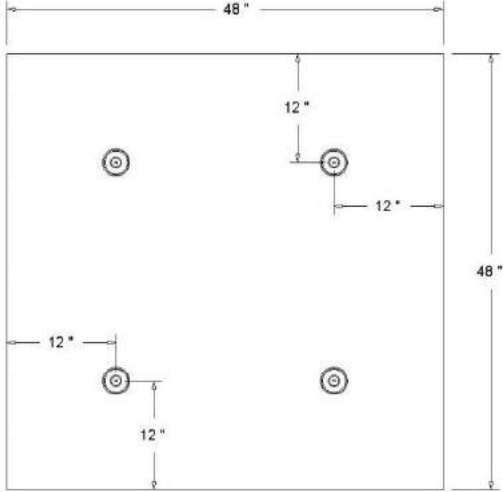
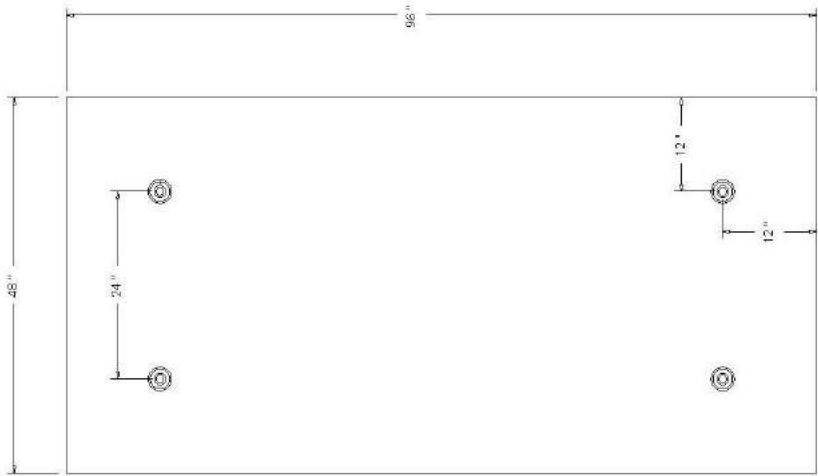
Component	Product	Installation Detail
Fasteners, Batts & Plates	Firestone All-Purpose Fasteners	Min. 0.75-inch penetration through the top rib of the steel deck or wood deck
	GenFast AP Fasteners	
	Trufast #12 DP Fasteners	
	Firestone Concrete Drive	Min. 1.25" embedment into min. 3" thick structural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



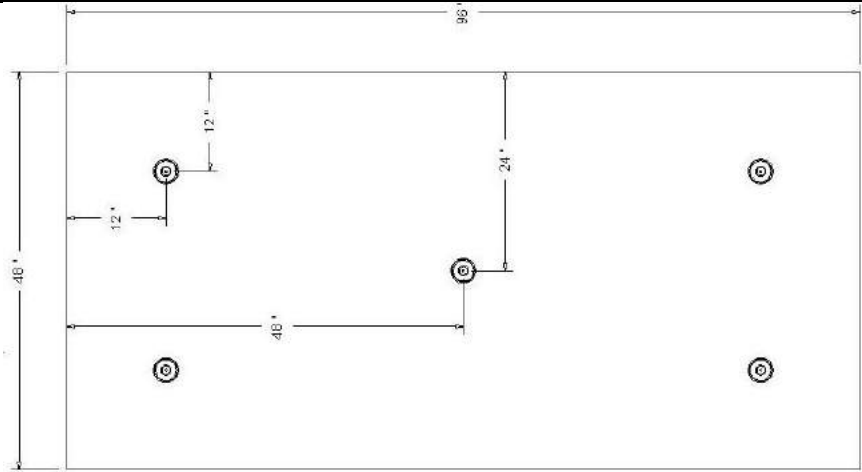
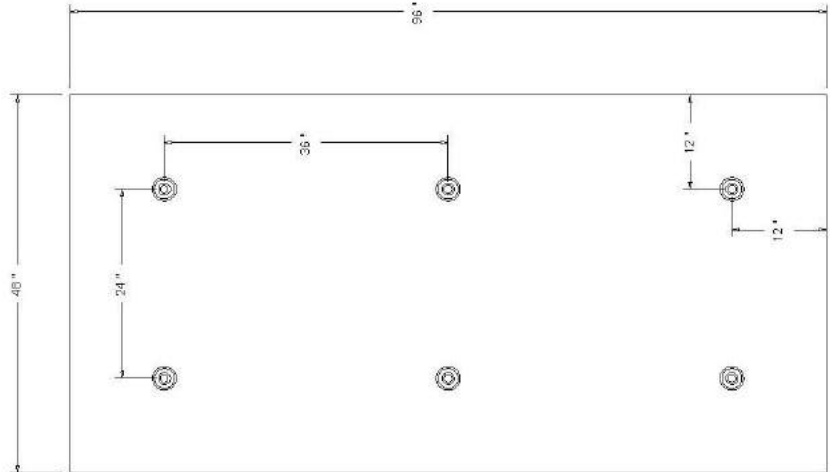
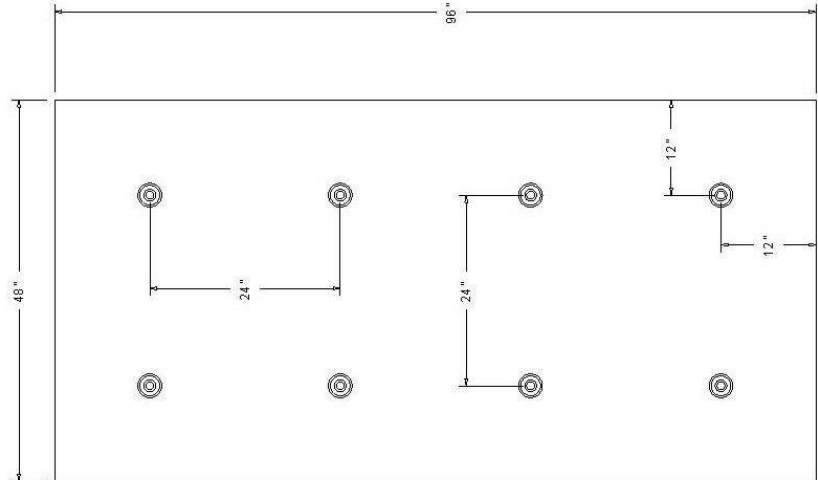
Component	Product	Installation Detail
Insulation Adhesives (Cont'd)	Firestone I.S.O. Twin Pack Insulation Adhesive	Partially adhered in 0.5 to 0.75-inch wide ribbons
	GenFlex One Step Insulation Adhesive	
	Firestone I.S.O. Spray R	Partially adhered in 0.75 to 1-inch wide ribbons
Insulation/Cover Boards	Georgia-Pacific DensDeck or DensDeck Prime	Min. 0.25-inch thick
	Firestone 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	
	Firestone ISO 95+ GL (Tapered)	0.5-inch to start with 0.25-inch per ft taper; Adhered boards shall be a maximum 4 ft x 4 ft
	GenFlex ISO Insulation (Tapered)	
	Firestone ISOGARD HD	Min. 0.5-inch thick; Adhered boards shall be a maximum 4 ft. x 4 ft.
	GenFlex HD ISO	
	Firestone ISOGARD HD Composite	Min. 1.5-inch thick; Adhered boards shall be a maximum 4 ft. x 4 ft.
	GenFlex HD Composite ISO	
	Firestone 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
	Firestone I.S.O. Spray R	Partially adhered in 0.75 to 1-inch wide ribbons
	Firestone XR Stick	Partially adhered in 0.75 to 1-inch wide ribbons
	EZTPO FB Stick Adhesive	
	Firestone XR Bonding Adhesive	Fully adhered at rate of 70-90 ft ² /gal; Applied to substrate only
	GenFlex FB Bonding Adhesive	
	Firestone 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	
	Firestone Single-Ply LVOC Bonding Adhesive	
	GenFlex EPDM Bonding Adhesive LVOC	
	Firestone Single-Ply LVOC 1168 Bonding Adhesive	
	EZ TPO Bonding Adhesive LVOC-1168	Fully adhered at a rate of 100-120 ft ² /gal.
	Firestone Water Based Bonding Adhesive P	
	Owens Corning PermaMop Asphalt	Fully adhered within the EVT range at a rate of 25-40 lbs/100 ft ²
Base Sheets	Firestone 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
	Firestone 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	
	Firestone Ply IV (4)	
	Firestone Ply VI (6)	
	Firestone SBS Base	
	Firestone SBS Base-P	
	Firestone SBS Glass Torch Base	
	Firestone SBS Glass Torch Base 1.5	
	Firestone SBS PolyBase	
	Firestone SBS Poly Torch Base	
	Firestone SBS Premium Base	
	Firestone SBS Premium Poly Base	
	Firestone SBS Smooth	



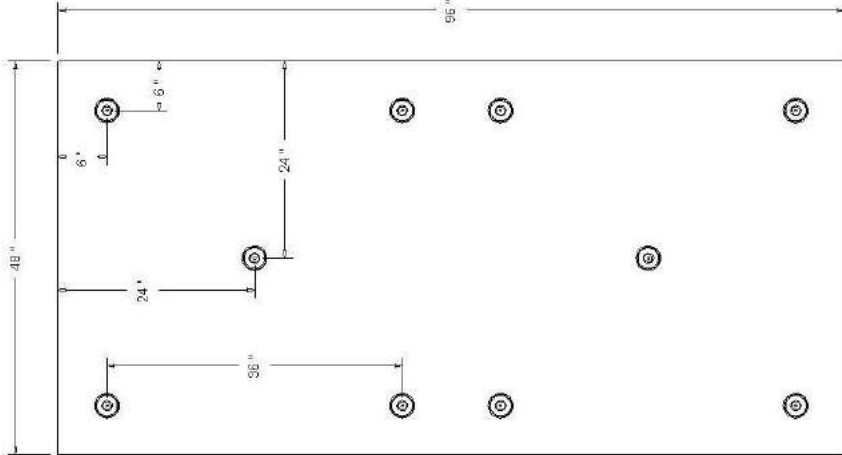
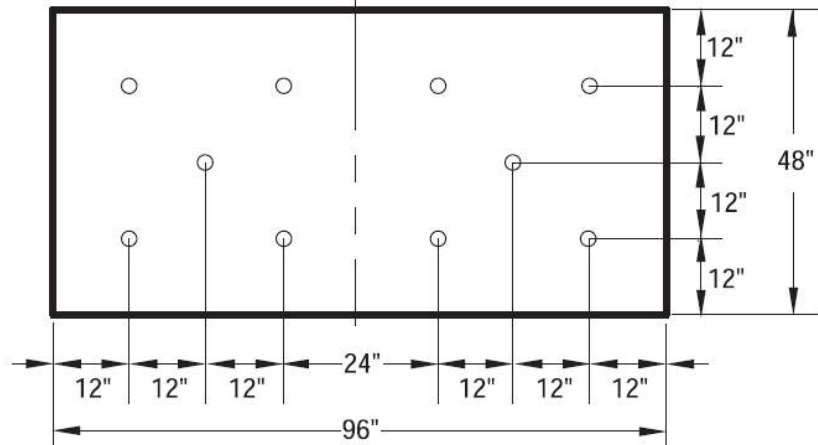
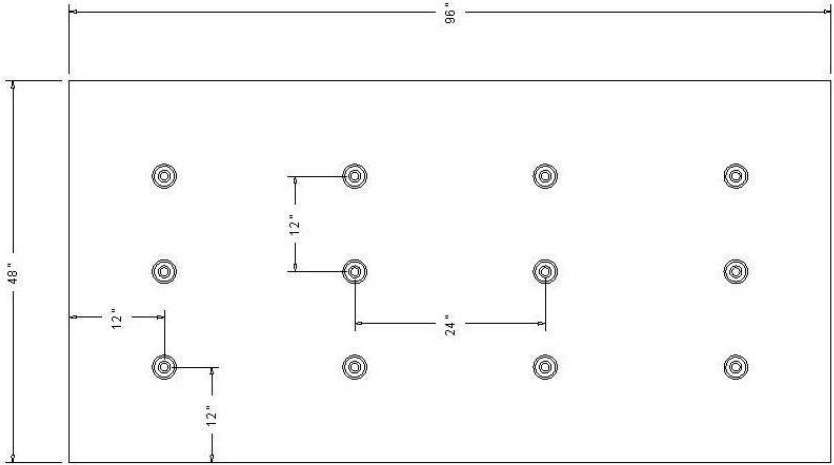
Component	Product	Installation Detail
Single-Ply Membrane	GenFlex EZ TPO	Min. 2-inch wide side-laps with min. 1.5-inch wide heat weld; In-lap fastened systems shall have min. 6-inch wide side-laps with min. 1.5-inch wide heat weld; Side-laps shall be installed perpendicular to the direction of the steel deck ribs for mechanically attached systems
	GenFlex EZ Fleece Backed TPO 45 mil	
	GenFlex EZ Fleece Backed TPO 60 mil	
	GenFlex EZ Fleece Backed TPO 80 mil	
Cellular Lightweight 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 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>
4 per 4 ft. x 8 ft. board	 <p>(Max. 8ft² contributory area per fastener)</p>

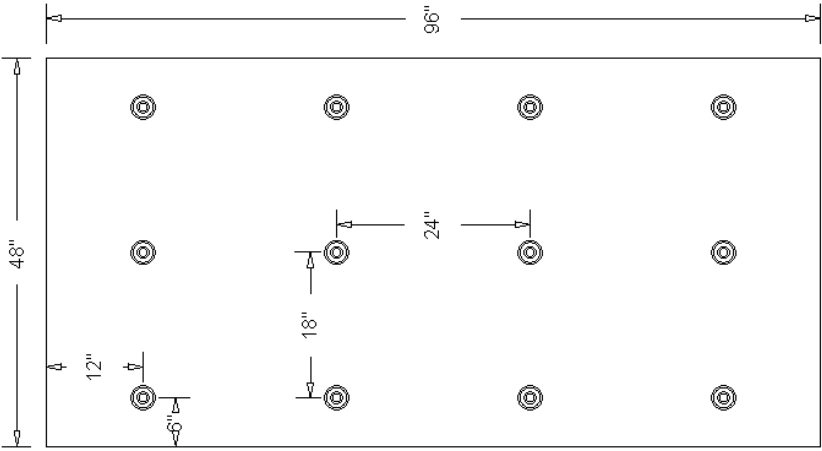
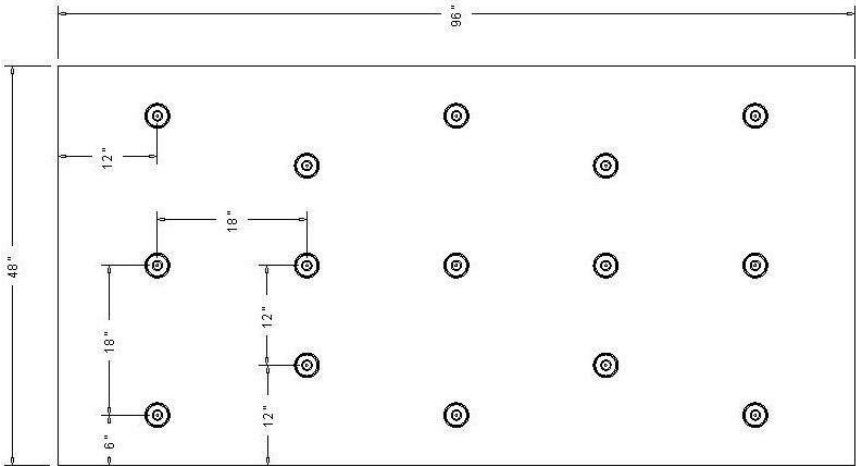
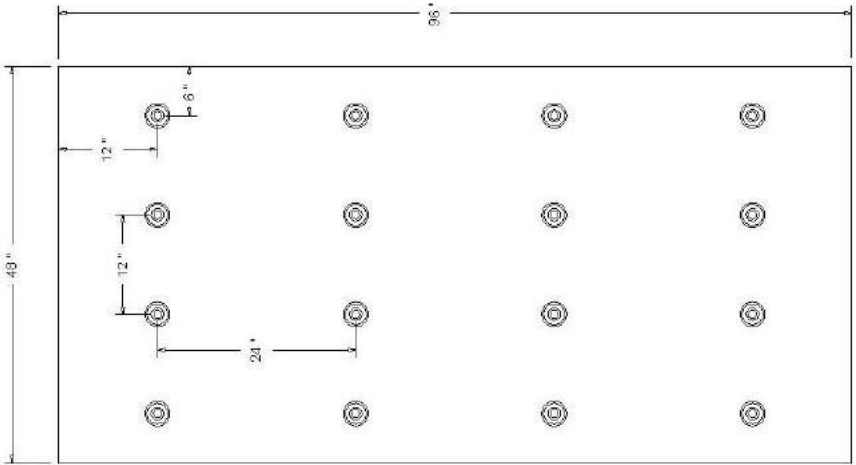


Insulation/Cover Board Fastening Patterns	
Description	Fastening Pattern
5 per 4 ft. x 8 ft. board	 <p>(Max. 6.4ft² contributory area per fastener)</p>
6 per 4 ft. x 8 ft. board	 <p>(Max. 5.33ft² contributory area per fastener)</p>
8 per 4 ft. x 8 ft. board	 <p>(Max. 4.00ft² contributory area per fastener)</p>

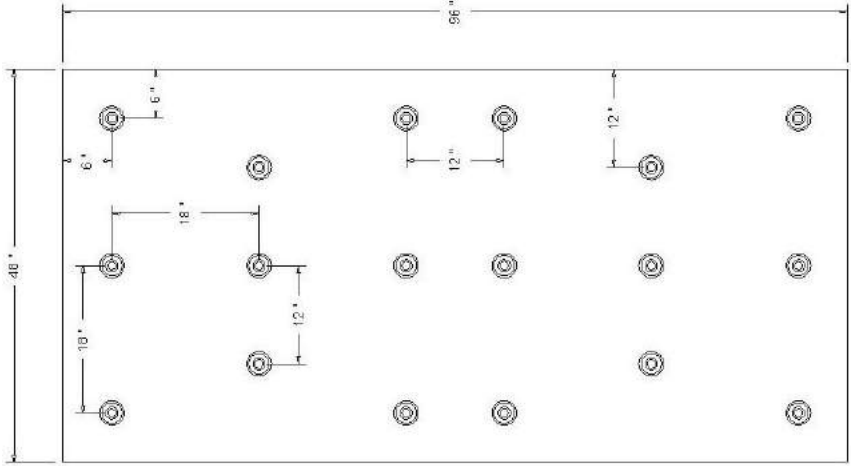
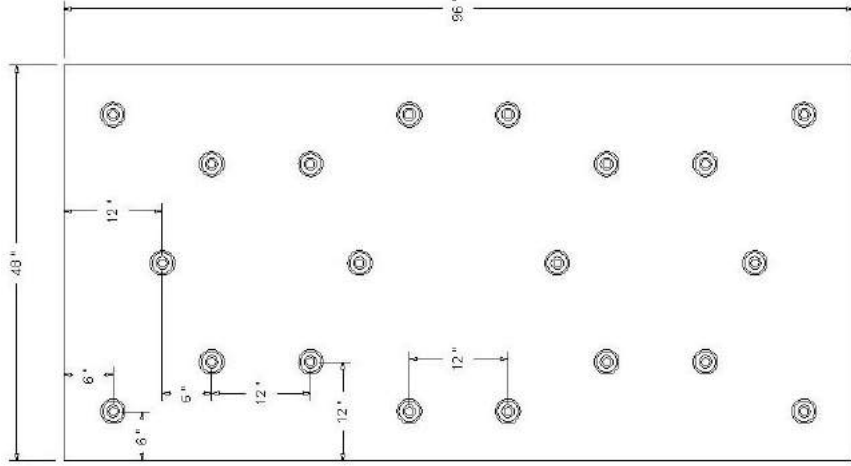
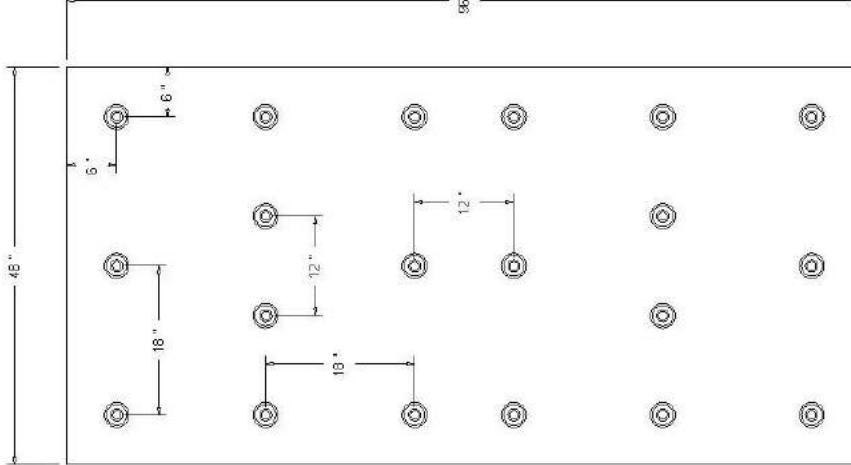


Insulation/Cover Board Fastening Patterns	
Description	Fastening Pattern
10 per 4 ft. x 8 ft. board	 <p>(Max. 3.2ft² contributory area per fastener)</p>
10 per 4 ft. x 8 ft. board (Alt. Pattern)	 <p>(Max. 3.2ft² contributory area per fastener)</p>
12 per 4 ft. x 8 ft. board	 <p>(Max. 2.67ft² contributory area per fastener)</p>

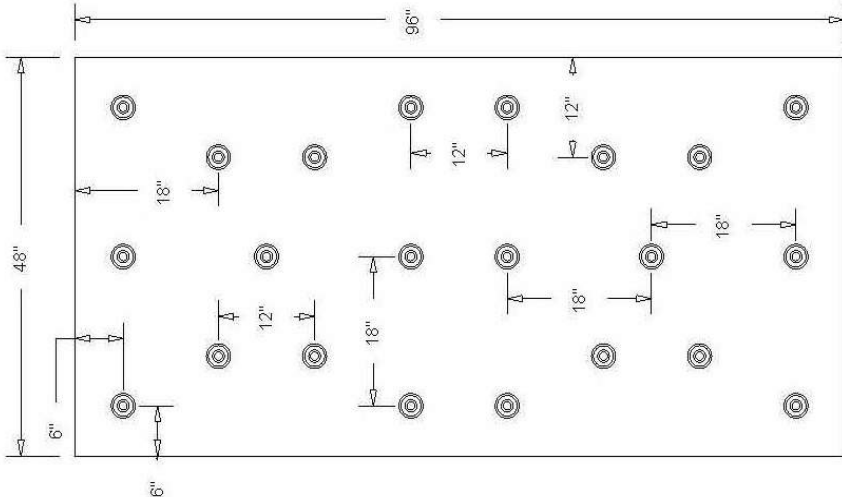
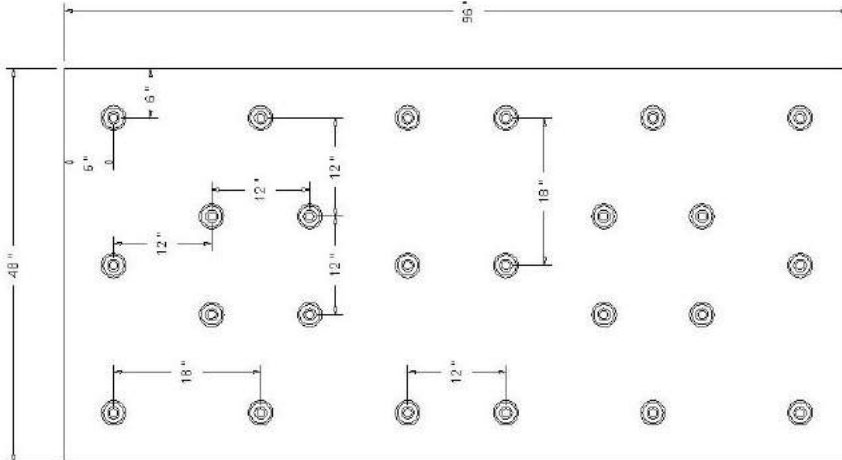


Insulation/Cover Board Fastening Patterns	
Description	Fastening Pattern
12 per 4 ft. x 8 ft. Board (Alt. Pattern)	 <p>(Max. 2.67ft² contributory area per fastener)</p>
15 per 4 ft. x 8 ft. Board	 <p>(Max. 2.13ft² contributory area per fastener)</p>
16 per 4 ft. x 8 ft. board	 <p>(Max. 2.00ft² contributory area per fastener)</p>



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



Insulation/Cover Board Fastening Patterns	
Description	Fastening Pattern
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 C402.4 of the Florida Building Code, Energy Conservation, 5 th Edition (2014)
<i>AP Fasteners & Plates</i>	One of the following: -Firestone All-Purpose Fasteners and Insulation Fastening Plates -GenFast AP Fasteners and GenFast 3" Round Insulation 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: -Firestone Concrete Drive and Insulation Fastening Plates -GenFast Concrete Drive and GenFast 3" Round Insulation Plates
<i>CD Fasteners & Plates</i>	One of the following: -Firestone Concrete Drive and Firestone 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 -Firestone 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
	<i>Steel Deck</i> 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

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>	APA Span-Rated sheathing. 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 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 -Firestone XR Bonding Adhesive		
<i>FB-S</i>	One of the following products: -GenFlex EZ TPO FB Stick Adhesive -Firestone XR Stick Membrane Adhesive		
<i>HA</i>	ASTM D 312, Type IV asphalt		
<i>HD Fasteners & Insulation Plates</i>	One of the following: -Firestone 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: -Firestone Heavy Duty Fasteners and Firestone HD Seam Plates -GenFlex Heavy Duty Fasteners and GenFlex HD Seam Plates		
<i>HD Plus Fasteners & Plates</i>	One of the following: -Firestone Heavy Duty Plus Fasteners and Firestone HD Plus Seam Plates -GenFast #16 Max Fasteners and GenFlex HD Plus Seam Plates		

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 -Firestone ISO 95+ GL -Firestone ISOGARD HD -Firestone ISOGARD HD Composite -Firestone RESISTA -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 -Firestone I.S.O. Fix II -Firestone I.S.O. Stick -Firestone 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 -Firestone I.S.O. Fix II -Firestone I.S.O. Stick -Firestone I.S.O. Twin Pack Insulation Adhesive -Firestone 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 -Firestone I.S.O. Fix II -Firestone I.S.O. Stick -Firestone I.S.O. Spray R
<i>InvisiWeld</i>	One of the following: -Firestone UltraPly InvisiWeld Plates or Invisiweld-S Plates with Firestone Heavy Duty Fasteners or Firestone 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>	Firestone UltraPly Invisiweld-S Plates with SFS inteck Dekfast #15 HS, Firestone Heavy Duty Fasteners or Firestone Concrete Drive fasteners (concrete decks only)
<i>Invisiweld-S II</i>	Firestone 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 Firestone I.S.O. Fix II
<i>I.S.O. IA</i>	Ribbon adhered in either GenFlex One Step Insulation Adhesive or Firestone I.S.O. Twin Pack Insulation Adhesive
<i>I.S.O. Stick</i>	Ribbon adhered in either GenFlex I.S.O. Stick or Firestone I.S.O. Stick
<i>ISO</i>	One or more layers of GenFlex ISO Insulation or Firestone ISO 95+ GL

Name	Definition
<i>ISO HD</i>	One or more layers of GenFlex HD ISO or Firestone ISOGARD HD
<i>ISO HD-C</i>	One or more layers of GenFlex HD Composite ISO or Firestone ISOGARD HD Composite
<i>ISO GF</i>	One or more layers of GenFlex Coated Glass Facer or Firestone RESISTA
<i>LVOC Bonding Adhesive</i>	Adhered in either GenFlex EPDM Bonding Adhesive or Firestone Single-Ply LVOC Bonding Adhesive
<i>LVOC-1168 Bonding Adhesive</i>	Adhered in either GenFlex EZ TPO Bonding Adhesive LVOC-1168 or Firestone Single-Ply LVOC 1168 Bonding Adhesive
<i>LWIC</i>	Poured-in-place Cellular Lightweight 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>	GenFlex EZ TPO 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 -Firestone UltraPly Bonding Adhesive -Firestone Single-Ply LVOC Bonding Adhesive -Firestone Single-Ply LVOC 1168 Bonding Adhesive
<i>Membrane Adhesive II</i>	GenFlex EZ TPO 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 -Firestone UltraPly Bonding Adhesive -Firestone Single-Ply LVOC Bonding Adhesive -Firestone Single-Ply LVOC 1168 Bonding Adhesive -Firestone Water Based Bonding Adhesive P
<i>Membrane Adhesive III</i>	GenFlex EZ TPO adhered in accordance with one of the following options per INSTALLATION section: -GenFlex EPDM Bonding Adhesive LVOC -GenFlex EZ TPO Bonding Adhesive LVOC-1168 -Firestone Single-Ply LVOC Bonding Adhesive -Firestone Single-Ply LVOC 1168 Bonding Adhesive -Firestone Water Based Bonding Adhesive P
<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>TPO Bonding Adhesive</i>	Adhered in either GenFlex EZ TPO Bonding Adhesive or Firestone UltraPly Bonding Adhesive



Name	Definition
<i>VB</i>	One or more plies of the following applied as a vapor barrier: <ul style="list-style-type: none">- Firestone Ply IV (4)- Firestone Ply VI (6)- Firestone MB Base- Firestone SBS Base- Firestone SBS PolyBase- Firestone SBS Premium Base
<i>V-Force</i>	One ply of Firestone V-Force Vapor Barrier Membrane or GenFlex Vapor Shield Membrane self-adhered fully over deck. Non-metal substrates must be primed with Firestone SA-Solvent Based (SB) Primer or Firestone SA-LVOC Primer
<i>WB V-Force</i>	One ply of Firestone 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.

1. Allowable pressures were calculated using a 2:1 margin of safety per FBC Section 1504.9.
2. Refer to [LIMITATIONS](#) and [NOMENCLATURE](#) sections of this evaluation when using the table(s) below.
3. Refer to [INSTALLATION](#) section of this report for installation detail when the information is not explicitly stated for the selected assembly.
4. The on-center (o.c.) spacing given is the maximum allowable attachment spacing for the rated system.
5. 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.
6. 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.

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 Concrete Assemblies with All Layers Adhered over <i>Concrete Deck</i> (New or Existing)
LS-A-#	Lightweight Concrete Assemblies with All Layers Adhered over <i>Steel Deck</i> (New or Existing)
L-AM-#	Lightweight Concrete Assemblies with Adhered Membranes over <i>Steel Deck</i> or <i>Concrete Deck</i> (New or Existing)
L-M-#	Mechanically Fastened Lightweight 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)

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 II	-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 FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.	-57.5 (Lim. 9)
C-A-3	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 II	-97.5 (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 FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.	-97.5 (Lim. 9)
C-A-5	APP 80 Glass Base torched adhered	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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 or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-112.5 (Lim. 9)
C-A-6	APP 80 Glass Base torched adhered	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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 II	-112.5 (Lim. 9)
C-A-7	-	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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 or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-112.5 (Lim. 9)
C-A-8	-	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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 II	-112.5 (Lim. 9)
C-A-9	OPTIONAL APP 80 Glass Base torched adhered	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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	Fully adhered in LVOC Bonding Adhesive	-112.5 (Lim. 9)
C-A-10	-	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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	Fully adhered in LVOC Bonding Adhesive	-112.5 (Lim. 9)
C-A-11	APP 80 Glass Base torched adhered	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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	-135 (Lim. 9)

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	APP 80 Glass Base torched adhered	Min. 1.5-inch ISO or ISO GF; I.S.O. IA ribbon adhered 12-inch o.c.	OPTIONAL Min. 1.5-inch ISO or ISO GF with Taper ISO or ISO GF I.S.O. IA or I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S ribbon adhered 12-inch o.c.	-142.5 (Lim. 9)
C-A-13	-	ISO 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.	-150 (Lim. 9)
C-A-14	-	ISO 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.	-155.5 (Lim. 9)
C-A-15	-	OPTIONAL ISO Insulation Adhesive II ribbon adhered 12-inch o.c.	DensDeck Prime 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.; HA; PermaMop; FB-BA	-163.5 (Lim. 9)
C-A-16	-	OPTIONAL ISO Insulation Adhesive II ribbon adhered 12-inch o.c.	DensDeck Prime Insulation Adhesive II ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-163.5 (Lim. 9)
C-A-17	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 or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-163.5 (Lim. 9)
C-A-18	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 II	-163.5 (Lim. 9)
C-A-19	-	ISO Insulation Adhesive II ribbon adhered 12-inch o.c.	SECUROCK I.S.O. Stick or 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	-175 (Lim. 9)
C-A-20	-	ISO Insulation Adhesive II ribbon adhered 12-inch o.c.	SECUROCK I.S.O. Stick or I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-175 (Lim. 9)
C-A-21	-	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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	Fully adhered in TPO Bonding Adhesive	-187.5 (Lim. 9)
C-A-22	-	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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.	-187.5 (Lim. 9)

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-23	-	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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-24	-	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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-25	-	ISO Insulation Adhesive II 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.	-195 (Lim. 9)
C-A-26	-	ISO Insulation Adhesive II 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-27	-	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-28	-	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 II	-205 (Lim. 9)
C-A-29	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-30	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 II	-205 (Lim. 9)
C-A-31	APP 80 Glass Base torched adhered	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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)
C-A-32	OPTIONAL APP 80 Glass Base torched adhered	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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	Fully adhered in TPO Bonding Adhesive	-247.5 (Lim. 9)
C-A-33	OPTIONAL APP 80 Glass Base torched adhered	Min. 0.5-inch ISO or Min. 1-inch ISO GF installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	OPTIONAL DensDeck Prime installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	EZ TPO	Membrane Adhesive II	-247.5 (Lim. 9)

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-34	-	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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	EZ TPO	Membrane Adhesive II	-247.5 (Lim. 9; Non-HVHZ)
C-A-35	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.	-255 (Lim. 9)
C-A-36	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	Membrane Adhesive II	-255 (Lim. 9)
C-A-37	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 II	-255 (Lim. 9)
C-A-38	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.	-255 (Lim. 9)
C-A-39	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.	-262.5 (Lim. 9)
C-A-40	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-41	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)

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-42	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	Membrane Adhesive II	-262.5 (Lim. 9)
C-A-43	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-44	APP 80 Glass Base torched adhered	Min. 1-inch ISO GF 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	Fully adhered in LVOC Bonding Adhesive or TPO Bonding Adhesive	-277.5 (Lim. 9)
C-A-45	-	-	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.	-285 (Lim. 9)
C-A-46	-	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 II	-347.5 (Lim. 9)
C-A-47	-	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-48	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-49	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	-347.5 (Lim. 9)

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-50	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-51	-	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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-52	-	Min. 1-inch ISO GF installed with I.S.O. IA applied in ribbons spaced 12-inch o.c.	-	EZ TPO	TPO Bonding Adhesive or LVOC Bonding Adhesive	-360 (Lim. 9)
C-A-53	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-54	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-55	-	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-56	-	SECUROCK I.S.O. Spray R ribbon adhered 12-inch o.c.	-	EZ TPO	TPO Bonding Adhesive	-435 (Lim. 9)
C-A-57	-	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-58	-	-	ISO HD Insulation Adhesive II ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-445 (Lim. 9)

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-59	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-60	-	SECUROCK Insulation Adhesive ribbon adhered 12-inch o.c.	-	EZ TPO	TPO Bonding Adhesive	-495 (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 II	-30 (Lim. 7; Non-HVHZ)
C-AM-2	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	-30 (Lim. 7; Non-HVHZ)
C-AM-3	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-4	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-5	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)

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-6	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 II	-45 (Lim. 7)
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 FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-45 (Lim. 7)
C-AM-8	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 II	-45 (Lim. 7; Non-HVHZ)
C-AM-9	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 or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-45 (Lim. 7; Non-HVHZ)
C-AM-10	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 II	-45 (Lim. 7; Non-HVHZ)
C-AM-11	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 or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-45 (Lim. 7; Non-HVHZ)
C-AM-12	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 II	-45 (Lim. 7)
C-AM-13	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 applied in ribbons spaced 12-inch o.c.	EZ TPO	Membrane Adhesive II	-45 (Lim. 7; Non-HVHZ)
C-AM-14	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 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.	-45 (Lim. 7; Non-HVHZ)

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-15	OPTIONAL Insulation	Preliminarily Secured or Secured with Top Layer	Min. 1-inch ISO GF	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	-52.5 (Lim. 7)
C-AM-16	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 II	-52.5 (Lim. 7)
C-AM-17	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	-52.5 (Lim. 7)
C-AM-18	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	-60 (Lim. 7)
C-AM-19	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	-60 (Lim. 7)
C-AM-20	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	-60 (Lim. 7)
C-AM-21	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" ISO HD-C	I.S.O. Stick or I.S.O. Spray R Ribbons spaced 12-inch o.c.	EZ TPO	TPO Bonding Adhesive	-60 (Lim. 7)
C-AM-22	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	-60 (Lim. 7)
C-AM-23	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	-60 (Lim. 7)
C-AM-24	Min. 2-inch ISO or ISO GF	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 GF followed by ISO HD	Insulation Adhesive II Ribbons spaced 6-inch o.c.	EZ TPO	Membrane Adhesive II	-60 (Lim. 7)

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-25	Min. 2-inch ISO or ISO GF	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 GF followed by ISO HD	Insulation Adhesive II Ribbons spaced 6-inch o.c.	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.;	-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 8 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive	-62.5 (Lim. 9)
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 8 per 4 ft. x 8 ft. board	EZ FB TPO	FB-BA, PermaMop; HA	-62.5 (Lim. 9)
C-AM-28	Min. 2-inch ISO or ISO GF	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	ISO HD	Insulation Adhesive II Ribbons spaced 6-inch o.c.	EZ TPO	Membrane Adhesive II	-67.5 (Lim. 7)
C-AM-29	Min. 2-inch ISO or ISO GF	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	ISO HD	Insulation Adhesive II Ribbons spaced 6-inch o.c.	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.	-67.5 (Lim. 7)
C-AM-30	Min. 2-inch ISO	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	SECUROCK	I.S.O. Stick or I.S.O. Spray R Ribbons spaced 6-inch o.c.	EZ TPO	Membrane Adhesive	-67.5 (Lim. 7)
C-AM-31	Min. 2-inch ISO	CD Fasteners & Insulation Plates or HD Fasteners & Insulation Plates secured 18 per 4 ft. x 8 ft. board	SECUROCK	I.S.O. Stick or I.S.O. Spray R Ribbons spaced 6-inch o.c.	EZ FB TPO	FB-BA, PermaMop; HA	-67.5 (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 20 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive	-67.5 (Lim. 7)

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-33	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	-67.5 (Lim. 7)
C-AM-34	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	-67.5 (Lim. 7)
C-AM-35	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-36	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 ribbon adhered 4-inch o.c.	-67.5 (Lim. 7)
C-AM-37	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	-75 (Lim. 7)
C-AM-38	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	-75 (Lim. 7)
C-AM-39	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)
C-AM-40	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 ribbon adhered 4-inch o.c.	-75 (Lim. 7)
C-AM-41	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 or I.S.O. IA adhered 6-inch o.c.	EZ FB TPO	FB-S ribbon adhered 6-inch o.c.	-82.5 (Lim. 7)
C-AM-42	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	-82.5 (Lim. 7)
C-AM-43	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)

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-1	-	OPTIONAL Insulation	<i>Preliminarily Secured or Secured with Top Layer</i>	OPTIONAL Cover Board	<i>Preliminarily Secured</i>	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)
C-M-2	V-Force Vapor Barrier Membrane installed as Air Barrier	OPTIONAL Insulation	<i>Preliminarily Secured or secured with top layer</i>	Min. 2-inch ISO, ISO GF 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.	-37.5 (Lim. 7; Non-HVHZ)
C-M-3	-	Min. 1.5-inch Insulation	<i>Preliminarily Secured or secured with top layer</i>	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 or secured with top layer</i>	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 or secured with top layer</i>	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 or secured with top layer</i>	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 or secured with top layer</i>	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)

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-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)
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 GF or ISO GARD 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 GF or ISO GARD 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)

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-13	V-Force Vapor Barrier Membrane installed as Air Barrier adhered over loose-laid SECURROCK	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 3-inch ISO 95-GL, ISO GF, or ISO HD-C	HD Fasteners & Insulation Plates 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)
C-M-14	-	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)
C-M-15	-	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)
C-M-16	-	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 or CD Fasteners & Plates; Fastener rows 114-inch o.c.	-52.5 (Lim. 7)
C-M-17	-	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 or CD Fasteners & Plates; Fastener rows 54-inch o.c.	-52.5 (Lim. 7)
C-M-18	-	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 or CD Fasteners & Plates; Fastener rows 89-inch o.c.; 7-inch wide side laps	-60 (Lim. 7)
C-M-19	-	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 or CD Fasteners & Plates; 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	CD Fasteners & Insulation Plates or HD Fasteners & Insulation 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. HD Fasteners & Plates or CD Fasteners & Plates; Fastener rows 89-inch o.c.	-67.5 (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	Membrane Attachment	MDP (psf)
C-M-21	-	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)
C-M-22	-	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)
C-M-23	(2) layers of V-Force Vapor Barrier Membrane installed as Air Barrier	OPTIONAL Insulation	<i>Preliminarily Secured</i> or Secured with Top Layer	Min. 3-inch ISO, ISO GF 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</i> or secured with top layer	OPTIONAL Cover Board	Invisiweld-S 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</i> or secured with top layer	OPTIONAL Cover Board	Invisiweld-S II 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</i> or secured with top layer	OPTIONAL Cover Board	Invisiweld-S 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)

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-4	-	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 6 ft ² in a staggered, 2 ft x 3 ft grid	<i>EZ TPO</i>	Induction welded to Invisiweld-S plates	-45 (Lim. 7; Non-HVHZ)
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 GF 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 <i>SECUROCK</i>	OPTIONAL <i>Insulation</i>	<i>Preliminarily Secured</i> or secured with top layer	Min. 2.5-inch ISO 95-GL, ISO GF 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)

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-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 <i>InvisiWeld</i> plates	-60 (Lim. 7)
C-W-12	-	Min. 1.5-inch <i>Insulation</i>	<i>Preliminarily Secured</i> or secured with top layer	OPTIONAL <i>Cover Board</i>	<i>Invisiweld-S</i> 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	<i>EZ TPO</i>	Induction welded to <i>Invisiweld-S</i> plates	-75 (Lim. 7)
C-W-13	-	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 12 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 <i>InvisiWeld</i> plates	-75 (Lim. 7)
C-W-14	-	Min. 0.5-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 12 per 4 ft. x 8 ft. board (Alt. Pattern)	<i>EZ TPO</i>	Induction welded to <i>InvisiWeld</i> plates	-75 (Lim. 7)
C-W-15	-	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 3-ft ² in a staggered 1.5 ft x 2 ft grid	<i>EZ TPO</i>	Induction welded to <i>Invisiweld-S</i> plates	-82.5 (Lim. 7)
C-W-16	-	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 72-inch o.c.	<i>EZ TPO</i>	Induction welded to <i>InvisiWeld</i> plates	-60 (Lim. 7)
C-W-17	-	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 6-inch o.c. in rows 60-inch o.c.	<i>EZ TPO</i>	Induction welded to <i>Invisiweld-S</i> plates	-90 (Lim. 7)
C-W-18	-	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 16 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 <i>InvisiWeld</i> 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	I.S.O. IA or I.S.O. Spray R Insulation Adhesive ribbon adhered 12-inch o.c.	-	-	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.	-75 (Lim. 9)
CW-A-2	Min. 1-inch ISO	I.S.O. IA or I.S.O. Spray R Insulation Adhesive ribbon adhered 12-inch o.c.	-	-	EZ TPO	Membrane Adhesive II	-75 (Lim. 9)
CW-A-3	Min. 0.5-inch ISO	I.S.O. IA or I.S.O. Spray R Insulation Adhesive ribbon adhered 12-inch o.c.	Min. 0.5-inch ISO	I.S.O. IA or I.S.O. Spray R Insulation Adhesive ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.	-92.5 (Lim. 9)
CW-A-4	Min. 0.5-inch ISO	I.S.O. IA or I.S.O. Spray R Insulation Adhesive ribbon adhered 12-inch o.c.	Min. 0.5-inch ISO	I.S.O. IA or I.S.O. Spray R Insulation Adhesive ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-92.5 (Lim. 9)
CW-A-5	Min. 0.5-inch ISO	I.S.O. Fix II or I.S.O. Spray R ribbon adhered 6-inch o.c.	-	-	EZ FB TPO	FB-S ribbon adhered 6-inch o.c. or I.S.O. Spray R ribbon adhered 12-inch o.c.	-142.5 (Lim. 9)
CW-A-6	Min. 0.5-inch ISO	I.S.O. Fix II or I.S.O. Spray R ribbon adhered 6-inch o.c.	-	-	EZ TPO	Membrane Adhesive II	-142.5 (Lim. 9)
CW-A-7	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-8	Min. 300 psi Celcore MF with HS Rheology Admixture; Min. ¼-inch slurry coat	Poured in place	-	-	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-160 (Lim. 9)
CW-A-9	Min. 0.5-inch ISO	I.S.O. Fix II or I.S.O. Spray R ribbon adhered 6-inch o.c.	DensDeck Prime	I.S.O. Fix II, I.S.O. Stick, I.S.O. Spray R ribbon adhered 6-inch o.c.	EZ FB TPO	FB-S ribbon adhered 6-inch o.c.; I.S.O. Spray R ribbon adhered 12-inch o.c.; HA PermaMop; or FB-BA	-160 (Lim. 9)

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-10	Min. 0.5-inch ISO	I.S.O. Fix II or I.S.O. Spray R ribbon adhered 6-inch o.c.	DensDeck Prime	I.S.O. Fix II, I.S.O. Stick, I.S.O. Spray R ribbon adhered 6-inch o.c.	EZ TPO	Membrane Adhesive II	-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)

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 GF	I.S.O. Spray R Insulation Adhesive ribbon adhered 12-inch o.c.	-	-	EZ FB TPO	FB-S ribbon adhered 6-inch o.c. or I.S.O. Spray R ribbon adhered 12-inch o.c.	-135 (Lim. 9)

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-2	Min. 1-inch ISO 95+ GL or ISO GF	I.S.O. Spray R Insulation Adhesive ribbon adhered 12-inch o.c.	-	-	EZ TPO	Membrane Adhesive II	-135 (Lim. 9)
G-A-3	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-4	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 or I.S.O. Spray R ribbon adhered 6-inch o.c.	-230 (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 GF	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)
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 GF	I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-37.5 (Lim. 7; Non-HVHZ)

Lightweight 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	-75 (Lim. 9)

Lightweight 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-2	-	Min. 200 psi Cellular Lightweight 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 or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-122.5 (Lim. 9)
LC-A-5	-	Min. 200 psi Cellular Lightweight Concrete (MCRF ≥ 80 lbf using 1.7" LWC Base-Ply Fastener)	-	-	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-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	I.S.O. IA or I.S.O. Spray R Insulation Adhesive ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.	-133.5 (Lim. 9)
LC-A-8	OPTIONAL SBS TA	Min. 300 psi Celcore MF with HS Rheology Admixture	ISO HD	I.S.O. IA or I.S.O. Spray R Insulation Adhesive ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-133.5 (Lim. 9)
LC-A-9	-	Min. 300 psi Celcore MF with HS Rheology Admixture	DensDeck Prime	I.S.O. Stick or 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	-133.5 (Lim. 9)
LC-A-10	-	Min. 300 psi Celcore MF with HS Rheology Admixture	DensDeck Prime	I.S.O. Stick or I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-133.5 (Lim. 9)
LC-A-11	-	Min. 350 psi Celcore MF with HS Rheology Admixture	Optional layer of Tapered ISO or ISO GF with Min. 2-inch ISO HD-C	I.S.O. IA, I.S.O. Spray R or I.S.O. Stick ribbon adhered 12-inch o.c.	EZ TPO	Water Based Bonding Adhesive P	-135 (Lim. 9)
LC-A-12	-	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 1.5-inch ISO or ISO GF followed by optional layer of Tapered ISO or ISO GF with ISO HD or DensDeck Prime	I.S.O. IA, I.S.O. Spray R or I.S.O. Stick ribbon adhered 12-inch o.c.	EZ TPO	Water Based Bonding Adhesive P	-135 (Lim. 9)

Lightweight 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-13	-	Min. 300 psi Elastizell with Zell-Crete Fibers	-	-	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-136 (Lim. 9)
LC-A-14	-	Min. 300 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	-144.5 (Lim. 9)
LC-A-15	-	Min. 200 psi Cellular Lightweight Concrete (MCRF ≥ 80 lbf using 1.7" LWC Base-Ply Fastener)	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 or I.S.O. Spray R ribbon adhered 12-inch o.c.	-150 (Lim. 9)
LC-A-16	-	Min. 200 psi Cellular Lightweight Concrete (MCRF ≥ 80 lbf using 1.7" LWC Base-Ply Fastener)	ISO HD	I.S.O. IA or I.S.O. Spray R Insulation Adhesive ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-150 (Lim. 9)
LC-A-17	-	Min. 200 psi Cellular Lightweight Concrete (MCRF ≥ 80 lbf using 1.7" LWC Base-Ply Fastener)	DensDeck Prime	I.S.O. Stick ribbon or I.S.O. Spray R 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	-150 (Lim. 9)
LC-A-18	-	Min. 200 psi Cellular Lightweight Concrete (MCRF ≥ 80 lbf using 1.7" LWC Base-Ply Fastener)	DensDeck Prime	I.S.O. Stick ribbon or I.S.O. Spray R adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-150 (Lim. 9)
LC-A-19	-	Min. 200 psi Elastizell with Zell-Crete Fibers	-	-	EZ TPO	LVOC Bonding Adhesive	-157.5 (Lim. 9)
LC-A-20	-	Min. 300 psi Elastizell with Zell-Crete Fibers	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 or I.S.O. Spray R ribbon adhered 12-inch o.c.	-157.5 (Lim. 9)
LC-A-21	-	Min. 300 psi Elastizell with Zell-Crete Fibers	ISO HD	I.S.O. IA or I.S.O. Spray R Insulation Adhesive ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-157.5 (Lim. 9)
LC-A-22	-	Min. 300 psi Elastizell with Zell-Crete Fibers	DensDeck Prime	I.S.O. Stick or 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	-157.5 (Lim. 9)
LC-A-23	-	Min. 300 psi Elastizell with Zell-Crete Fibers	DensDeck Prime	I.S.O. Stick or I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-157.5 (Lim. 9)

Lightweight 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-24	-	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 1-inch ISO with optional layer of Tapered ISO	I.S.O. Stick ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive	-187.5 (Lim. 9)
LC-A-25	-	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 1.5-inch ISO GF with optional layer of Tapered ISO GF	I.S.O. Stick ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-187.5 (Lim. 9)
LC-A-26	-	Min. 350 psi Celcore MF with HS Rheology Admixture	Optional layer of Tapered ISO or ISO GF with Min. 2-inch ISO HD-C	I.S.O. Stick ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive	-187.5 (Lim. 9)
LC-A-27	-	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 1.5-inch ISO or ISO GF followed by optional layer of Tapered ISO or ISO GF with ISO HD or DensDeck Prime	I.S.O. Stick ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive	-187.5 (Lim. 9)
LC-A-28	-	Min. 350 psi Celcore MF with HS Rheology Admixture	DensDeck Prime	I.S.O. Stick ribbon adhered 12-inch o.c.	EZ FB TPO	FB-BA	-187.5 (Lim. 9)
LC-A-29	-	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	-217.5 (Lim. 9)
LC-A-30	-	Min. 350 psi Celcore MF with HS Rheology Admixture	Optional layer of Tapered ISO or ISO GF 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-31	-	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 1.5-inch ISO or ISO GF followed by optional layer of Tapered ISO or ISO GF with ISO HD or DensDeck Prime	I.S.O. IA ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive	-217.5 (Lim. 9)
LC-A-32	-	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-33	-	Min. 350 psi Celcore MF with HS Rheology Admixture	Min. 1-inch ISO GF with optional layer of Tapered ISO GF	I.S.O. IA ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-217.5 (Lim. 9)
LC-A-34	-	Min. 150 psi Cellular Lightweight Concrete (MCRF ≥ 123 lbf using 1.7" LWC Base-Ply Fastener)	-	-	EZ TPO	TPO Bonding Adhesive	-222.5 (Lim. 9; HVHZ Only)
LC-A-35	-	Min. 350 psi Celcore MF with HS Rheology Admixture	-	-	EZ TPO	TPO Bonding Adhesive	-247.5 (Lim. 9)

Lightweight 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-36	-	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-37	-	Min. 280 psi Celcore MF with HS Rheology Admixture	-	-	EZ TPO	TPO Bonding Adhesive	-322.5 (Lim. 9 HVHZ Only)
LC-A-38	-	Min. 360 psi Celcore MF with HS Rheology Admixture and Celcore S-1	-	-	EZ TPO	TPO Bonding Adhesive	-335 (Lim. 9)
LC-A-39	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	-350 (Lim. 9)
LC-A-40	-	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	-397.5 (Lim. 9)
LC-A-41	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 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-1	G40, F1, L6, S12	Min. 300 psi Celcore MF with HS Rheology	-	-	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-45 (Lim. 9)
LS-A-2	G40, F1, L6, S12	Min. 300 psi Celcore MF with HS Rheology	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 or I.S.O. Spray R ribbon adhered 12-inch o.c.	-45 (Lim. 9)
LS-A-3	G40, F1, L6, S12	Min. 300 psi Celcore MF with HS Rheology	ISO HD	I.S.O. IA or I.S.O. Spray R Insulation Adhesive ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-45 (Lim. 9)

Lightweight 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-4	G40, F1, L6, S12	Min. 300 psi Celcore MF with HS Rheology	DensDeck Prime	I.S.O. Stick ribbon or I.S.O. Spray R 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	-45 (Lim. 9)
LS-A-5	G40, F1, L6, S12	Min. 300 psi Celcore MF with HS Rheology	DensDeck Prime	I.S.O. Stick ribbon or I.S.O. Spray R adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-45 (Lim. 9)
LS-A-6	G40, F1, L6	Min. 300 psi Celcore MF with HS Rheology	-	-	EZ TPO	TPO Bonding Adhesive or LVOC Bonding Adhesive	-45 (Lim. 9)
LS-A-7	G40, 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 or I.S.O. Spray R	-45 (Lim. 9)
LS-A-8	G40, 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 or I.S.O. Spray R ribbon adhered 6-inch o.c.; HA; PermaMop; FB-BA	-60 (Lim. 9)
LS-A-9	G40, P, L5, S12	Min. 350 psi Elastizell with Zell-Crete Fibers	-	-	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 6-inch o.c.; HA; PermaMop; FB-BA	-60 (Lim. 9)
LS-A-10	G40, P, L6, S18	Min. 360 psi Celcore MF with HS Rheology and Celcore S-1	-	-	EZ FB TPO	FB-S or I.S.O. Spray R ribbons adhered 12-inch o.c.; HA; PermaMop; FB-BA	-60 (Lim. 9)
LS-A-11	G40, F1, L5	Min. 300 psi Elastizell with Zell-Crete Fibers	-	-	EZ TPO	TPO Bonding Adhesive or LVOC Bonding Adhesive	-67.5 (Lim. 9)
LS-A-12	G40, F1, L5, S6	Min. 300 psi Elastizell with Zell-Crete Fibers	-	-	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-67.5 (Lim. 9)
LS-A-13	G40, F1, L5, S6	Min. 300 psi Elastizell with Zell-Crete Fibers	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 or I.S.O. Spray R ribbon adhered 12-inch o.c.	-67.5 (Lim. 9)
LS-A-14	G40, F1, L5, S6	Min. 300 psi Elastizell with Zell-Crete Fibers	ISO HD	I.S.O. IA or I.S.O. Spray R Insulation Adhesive ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-67.5 (Lim. 9)

Lightweight 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-15	G40, F1, L5, S6	Min. 300 psi Elastizell with Zell-Crete Fibers	DensDeck Prime	I.S.O. Stick or 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	-67.5 (Lim. 9)
LS-A-16	G40, F1, L5, S6	Min. 300 psi Elastizell with Zell-Crete Fibers	DensDeck Prime	I.S.O. Stick or I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-67.5 (Lim. 9)
LS-A-17	G40, P, L5, S18	Min. 300 psi Celcore MF with HS Rheology and Celcore S-1 coated with Celcore SBS	-	-	EZ FB TPO	I.S.O. Spray R ribbon adhered 12-inch o.c.;	-67.5 (Lim. 9)
LS-A-18	G40, P, L6, S18	Min. 350 psi Celcore MF with HS Rheology and Celcore S-1	-	-	EZ TPO	TPO Bonding Adhesive	-67.5 (Lim. 9)
LS-A-19	G40, F1W, L6, S12	Min. 300 psi Celcore MF with HS Rheology Admixture; Polymer Batten Strip spaced 18-inch o.c. through fastened to <i>Steel Deck</i> 12-inch o.c. with Heavy Duty Fasteners	-	-	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 4-inch o.c.; HA; PermaMop; FB-BA	-75 (Lim. 9)
LS-A-20	G40, 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)
LS-A-21	G40, F1, L6, S12	Min. 300 psi Celcore MF with HS Rheology Admixture HD Fasteners & Plates through-fastened to <i>Steel Deck</i> at a rate of one per 2 ft ²	-	-	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-90 (Lim. 9)
LS-A-22	G40, F1, L6, S12	Min. 300 psi Celcore MF with HS Rheology HD Fasteners & Plates through-fastened to <i>Steel Deck</i> at a rate of one per 2 ft ²	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 or I.S.O. Spray R ribbon adhered 12-inch o.c.	-90 (Lim. 9)
LS-A-23	G40, F1, L6, S12	Min. 300 psi Celcore MF with HS Rheology HD Fasteners & Plates through-fastened to <i>Steel Deck</i> at a rate of one per 2 ft ²	ISO HD	I.S.O. IA or I.S.O. Spray R Insulation Adhesive ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-90 (Lim. 9)
LS-A-24	G40, F1, L6, S12	Min. 300 psi Celcore MF with HS Rheology HD Fasteners & Plates through-fastened to <i>Steel Deck</i> at a rate of one per 2 ft ²	DensDeck Prime	I.S.O. Stick or 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	-90 (Lim. 9)
LS-A-25	G40, F1, L6, S12	Min. 300 psi Celcore MF with HS Rheology HD Fasteners & Plates through-fastened to <i>Steel Deck</i> at a rate of one per 2 ft ²	DensDeck Prime	I.S.O. Stick or I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-90 (Lim. 9)
LS-A-26	G40, P, L6, S18	Min. 380 psi Celcore MF with HS Rheology and Celcore S-1	-	-	EZ FB TPO	FB-S or I.S.O. Spray R ribbons spaced 4-inch o.c.	-90 (Lim. 9)

Lightweight 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-27	G40, 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-28	G40, 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.	-90 (Lim. 9)
LS-A-29	G40, F1, L6	Min. 300 psi Elastizell <i>HD Fasteners & Plates</i> through-fastened to Steel Deck at a rate of one per 2 ft ²	-	-	EZ TPO	TPO Bonding Adhesive	-115 (Lim. 9)
LS-A-30	G40, F1, L6, S12	Min. 300 psi Elastizell <i>HD Fasteners & Plates</i> through-fastened to Steel Deck at a rate of one per 2 ft ²	-	-	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-135 (Lim. 9)
LS-A-31	G40, F1, L6	Min. 300 psi Elastizell <i>HD Fasteners & Plates</i> through-fastened to Steel Deck at a rate of one per 2 ft ²	-	-	EZ TPO	LVOC Bonding Adhesive	-135 (Lim. 9)
LS-A-32	G40, F1, L6, S12	Min. 300 psi Elastizell <i>HD Fasteners & Plates</i> through-fastened to Steel Deck at a rate of one per 2 ft ²	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 or I.S.O. Spray R ribbon adhered 12-inch o.c.	-135 (Lim. 9)
LS-A-33	G40, F1, L6, S12	Min. 300 psi Elastizell <i>HD Fasteners & Plates</i> through-fastened to Steel Deck at a rate of one per 2 ft ²	ISO HD	I.S.O. IA or I.S.O. Spray R Insulation Adhesive ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-135 (Lim. 9)
LS-A-34	G40, F1, L6, S12	Min. 300 psi Elastizell <i>HD Fasteners & Plates</i> through-fastened to Steel Deck at a rate of one per 2 ft ²	DensDeck Prime	I.S.O. Stick or 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	-135 (Lim. 9)
LS-A-35	G40, F1, L6, S12	Min. 300 psi Elastizell <i>HD Fasteners & Plates</i> through-fastened to Steel Deck at a rate of one per 2 ft ²	DensDeck Prime	I.S.O. Stick or I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-135 (Lim. 9)
LS-A-36	G40, L5	Min. 390 psi Celcore MF with HS Rheology over deck treated with Celcore S-1	-	-	EZ FB TPO	I.S.O. Spray R or FB-S ribbon adhered 12-inch o.c.; FB-BA	-135 (Lim. 9)
LS-A-37	G40, 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-38	G40, L5	Min. 150 psi Cellular Lightweight Concrete (MCRF ≥ 123 lbf using 1.7" LWC Base-Ply Fastener)	-	-	EZ TPO	TPO Bonding Adhesive	-225 (Lim. 9; HVHZ Only)

Lightweight 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-39	G40, L5	Min. 150 psi Cellular Lightweight 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.;	-265 (Lim. 9; HVHZ Only)
LS-A-40	G40, L5	Min. 280 psi Celcore MF with HS Rheology Admixture	-	-	EZ TPO	TPO Bonding Adhesive	-272.5 (Lim. 9 HVHZ Only)
LS-A-41	G40, L5	Min. 280 psi Celcore MF with HS Rheology Admixture	-	-	EZ FB TPO	I.S.O. Spray R ribbon adhered 6-inch o.c.;	-460 (Lim. 9 HVHZ Only)

Lightweight 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 (G40, 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 GF	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)
L-AM-2	Steel Deck (G40, 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 GF	I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-37.5 (Lim. 7; Non-HVHZ)

Lightweight 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 (G40) 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 GF installed followed by OPTIONAL Tapered ISO or Tapered ISO GF followed by OPTIONAL ISO HD or DensDeck Prime	Insulation Adhesive applied in ribbons spaced 12-inch o.c.	EZ TPO	Membrane Adhesive II	-45 (Lim. 7)
L-AM-4	Steel Deck (G40, 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 (G40, 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 or I.S.O. Spray R ribbons spaced 12-inch o.c.	-45 (Lim. 7)
L-AM-6	Steel Deck (G40, 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 II	-45 (Lim. 7)
L-AM-7	Steel Deck (G40, P, L5, S18) or Concrete Deck	Min. 300 psi Celcore MF with HS Rheology and Celcore S-1 (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)

Lightweight 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 (G40, PW, L6, S18) Or Concrete Deck	Min. 420 psi Celcore MF with HS Rheology over deck treated with Celcore S-1 (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-9	Steel Deck (G40, P, L5, S18) or Concrete Deck	Min. 300 psi Celcore MF with HS Rheology and Celcore S-1 (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-10	Steel Deck (G40, P, L6, S18) or Concrete Deck	Min. 382 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 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)
L-AM-11	Steel Deck (G40, P, L6, S18) or Concrete Deck	Min. 382 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 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 II	-67.5 (Lim. 7)
L-AM-12	Steel Deck (G40, P, L6, S18) or Concrete Deck	Min. 400 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	1.7" 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-13	Steel Deck (G40, 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 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 (G40, 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 (G40, 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 (G40, 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 (G40, 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)
L-M-5	Steel Deck (G40, 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 (G40, 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 (G40, 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)

Mechanically Fastened Lightweight 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-8	Steel Deck (G40, 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 (G40, 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 (G40, 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)
L-M-11	Steel Deck (G40, 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 (G40, 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 (G40, HXE1, L6, HS12)	Min. 200 psi Celcore MF with HS Rheology	-	-	-	-	EZ TPO	Induction Welded to <i>InvisiWeld</i> installed 18-inch o.c. in rows spaced 60-inch o.c.	-30 (Lim. 7; Non-HVHZ)
L-W-2	Steel Deck (G40, HXE1, L6, HS12)	Min. 200 psi Celcore MF with HS Rheology	-	-	-	-	EZ TPO	Induction Welded to <i>InvisiWeld</i> installed at a rate of 1 fastener per 5.33-ft ²	-45 (Lim. 7; Non-HVHZ)
L-W-3	Steel Deck (G40, HXE1, L6, HS12)	Min. 200 psi Celcore MF with HS Rheology	-	-	-	-	EZ TPO	Induction Welded to <i>InvisiWeld</i> installed at a rate of 1 fastener per 4-ft ²	-60 (Lim. 7)
L-W-4	Steel Deck (G40, HXE1, L6, HS12)	Min. 200 psi Celcore MF with HS Rheology	-	-	-	-	EZ TPO	Induction Welded to <i>InvisiWeld</i> installed at a rate of 1 fastener per 2.7-ft ²	-75 (Lim. 7)
L-W-5	Steel Deck (G40, HXE1, L6, HS12)	Min. 200 psi Celcore MF with HS Rheology	-	-	-	-	EZ TPO	In Induction Welded to <i>InvisiWeld</i> installed 6-inch o.c. in rows spaced 60-inch o.c.	-75 (Lim. 7)

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 GF 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 II	-112.5 (Lim. 9)
R-A-3	Smooth or Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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 II	-112.5 (Lim. 9)
R-A-4	Granule Surfaced SBS Modified Roofing	-	-	EZ FB TPO	FB-S ribbon adhered 12-inch o.c.	-125.5 (Lim. 9)

Recover Assemblies with All Layers Adhered						
System No.	Existing Roof	Base Insulation	Top Insulation	Membrane	Membrane Attachment	MDP (psf)
R-A-5	Smooth Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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 II	-135 (Lim. 9)
R-A-6	Smooth Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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 II	-135 (Lim. 9)
R-A-7	Smooth or Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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	-135 (Lim. 9)
R-A-8	Smooth or Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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 II	-135 (Lim. 9)
R-A-9	Smooth Surfaced BUR	Min. 1-inch ISO GF installed with I.S.O. IA applied in ribbons spaced 12-inch o.c	-	EZ TPO	Membrane Adhesive II	-202.5 (Lim. 9)
R-A-10	Smooth Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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)
R-A-11	Smooth Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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	-202.5 (Lim. 9)
R-A-12	Smooth Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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-13	Smooth or Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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-14	Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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-15	Smooth Surfaced BUR	Min. 1-inch ISO GF installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	-	EZ TPO	Membrane Adhesive II	-247.5 (Lim. 9)
R-A-16	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	-247.5 (Lim. 9)

Recover Assemblies with All Layers Adhered						
System No.	Existing Roof	Base Insulation	Top Insulation	Membrane	Membrane Attachment	MDP (psf)
R-A-17	Mineral Surfaced BUR	Min. 1-inch ISO GF installed with I.S.O. IA or I.S.O. Stick applied in ribbons spaced 12-inch o.c	-	EZ TPO	Membrane Adhesive II	-247.5 (Lim. 9)
R-A-18	Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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 LVO Bonding Adhesive	-247.5 (Lim. 9)
R-A-19	Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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	Fully adhered in TPO Bonding Adhesive or LVOC Bonding Adhesive	-247.5 (Lim. 9)
R-A-20	Smooth Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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	-247.5 (Lim. 9)
R-A-21	Smooth Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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	Fully adhered in TPO Bonding Adhesive or LVOC Bonding Adhesive	-247.5 (Lim. 9)
R-A-22	Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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-23	Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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-24	Mineral Surfaced BUR	Min. 1.0-inch ISO GF installed with I.S.O. IA or I.S.O. Stick applied in ribbons spaced 12-inch o.c	-	EZ TPO	Membrane Adhesive	-255 (Lim. 9)
R-A-25	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	-255 (Lim. 9)
R-A-26	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	-255 (Lim. 9)
R-A-27	Mineral Surfaced BUR	Min. 1-inch ISO GF 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	Fully adhered in LVOC Bonding Adhesive or TPO Bonding Adhesive	-262.5 (Lim. 9)
R-A-28	Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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	Fully adhered in LVOC-1168 Bonding Adhesive	-262.5 (Lim. 9)

Recover Assemblies with All Layers Adhered						
System No.	Existing Roof	Base Insulation	Top Insulation	Membrane	Membrane Attachment	MDP (psf)
R-A-29	Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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 LVOC-1168 Bonding Adhesive	-262.5 (Lim. 9)
R-A-30	Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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	Fully adhered in TPO Bonding Adhesive or LVOC Bonding Adhesive	-262.5 (Lim. 9)
R-A-31	Mineral Surfaced BUR	Min. 0.5-inch ISO or Min. 1-inch ISO GF 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	Fully adhered in TPO Bonding Adhesive	-300 (Lim. 9)
R-A-32	Built-Up Roofing	-	-	EZ FB TPO	I.S.O. Spray R ribbon adhered 4-inch o.c.	-360 (Lim. 9)
R-A-33	Mineral Surfaced BUR	Min. 1-inch ISO GF 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	Fully adhered in LVOC Bonding Adhesive or TPO Bonding Adhesive	-352.5 (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	Min 0.5-inch ISO HD installed with I.S.O. Stick applied in ribbons spaced 12-inch o.c	EZ TPO	Fully adhered in LVOC Bonding Adhesive or TPO Bonding Adhesive	-352.5 (Lim. 9)
R-A-35	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)
R-A-36	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 Steel Deck (G33, PW, L6, S18) or Concrete Deck	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 GF	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)
R-AM-3	Min. 420 psi Celcore MF with HS Rheology LWIC over Steel Deck (G33, PW, L6, S18) or Concrete Deck	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 GF	I.S.O. Spray R ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive II	-37.5 (Lim. 7; Non-HVHZ)
R-AM-4	Min. 310 psi Celcore MF with HS Rheology LWIC over Steel Deck (G33, P, L6, S18) or Concrete Deck	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 or I.S.O. Spray R ribbons spaced 12-inch o.c.	-45 (Lim. 7)

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-5	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 II	-45 (Lim. 7)
R-AM-6	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-7	Min. 382 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 FB TPO	I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-67.5 (Lim. 7)
R-AM-8	Min. 382 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	Membrane Adhesive II	-67.5 (Lim. 7)
R-AM-9	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	Wood Deck (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	Steel Deck (G33, L6, S24) or Concrete Deck	OPTIONAL Insulation	Preliminarily Secured	-	-	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)
R-M-3	Steel Deck (G33, P, L6)	OPTIONAL Insulation	Preliminarily Secured	-	-	EZ TPO (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)
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 <i>HD Plus Fasteners & Plates</i> ; 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 <i>HD Fasteners & Plates</i> ; 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 <i>HD Fasteners & Plates</i> ; 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 <i>HD Fasteners & Plates</i> ; 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 <i>HD Fasteners & Plates</i> ; 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 <i>HD Fasteners & Plates</i> ; 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 <i>HD Plus Fasteners & Plates</i> ; 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 <i>HD Fasteners & Plates</i> ; 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 <i>HD Fasteners & Plates</i> ; 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 <i>HD Plus Fasteners & Plates</i> ; Fastener rows 114-inch o.c.	-67.5 (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-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 <i>HD Plus Fasteners & Plates</i> ; 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)
R-M-16	Min. 300 psi LWIC over Steel Deck (G33, P, L5, S18) or Concrete Deck	OPTIONAL Insulation	Preliminarily Secured	-	-	EZ FB TPO	<i>HD Fasteners & Plates</i> 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)	

Induction Welded Recover Assemblies						
System No.	Existing Roof	Insulation	Insulation Attachment	Membrane	Membrane Attachment	MDP (psf)
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 <i>Insulation</i> 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	<i>EZ TPO</i>	Induction welded to InvisiWeld plates	-52.5 (Lim. 7)
R-W-5	<i>Wood Deck (T19/32, L24)</i>	<i>DensDeck or SECUROCK</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	-52.5 (Lim. 9)
R-W-6	<i>Wood Deck (T19/32, L24, N6)</i>	<i>DensDeck or SECUROCK</i>	<i>InvisiWeld</i> fastened at a rate of 12 per 4 ft. x 8 ft. board	<i>EZ TPO</i>	Induction welded to InvisiWeld plates	-52.5 (Lim. 7)
R-W-7	<i>Steel Deck (G33, F1, L6, S30) or Concrete Deck</i>	Max. 1-inch <i>Insulation</i> (length shall be perpendicular to deck ribs)	<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)
R-W-8	<i>Steel Deck (G33, F1, L6, S30) or Concrete Deck</i>	Max. 1-inch <i>Insulation</i> (length shall be perpendicular to deck ribs)	<i>InvisiWeld</i> 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	<i>EZ TPO</i>	Induction welded to InvisiWeld plates	-75 (Lim. 7)
R-W-9	<i>Steel Deck (G33, P, L6, S24) or Concrete Deck</i>	Min. 0.5-inch <i>Insulation</i>	<i>InvisiWeld</i> fastened at a rate of 12 per 4 ft. x 8 ft. board (Alt. Pattern)	<i>EZ TPO</i>	Induction welded to InvisiWeld plates	-75 (Lim. 7)
R-W-10	<i>Wood Deck (T7/16, L24, N6)</i> (OSB or plywood for existing construction and new construction in Non-HVHZ)	<i>DensDeck</i>	<i>Preliminarily Secured</i>	<i>EZ TPO</i>	<i>Invisiweld</i> -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.	<i>Insulation</i>	SFS Purlin Fastener and EZ TPO Invisiweld-S Plates fastened 6-inch o.c. in rows 5-ft o.c.	<i>EZ TPO</i>	Induction welded to Invisiweld-S plates	-90 (Lim. 7)
R-W-12	<i>Steel Deck (G33, F2, L6, S30) or Concrete Deck</i>	Max. 1-inch <i>Insulation</i> (length shall be perpendicular to deck ribs)	<i>InvisiWeld</i> 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	<i>EZ TPO</i>	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	G40, L6	V-Force Vapor Barrier Membrane	Min. 1.5-inch ISO	I.S.O. Stick, I.S.O. Spray R or I.S.O. IA; Ribbons spaced 12-inch o.c.	-	-	EZ TPO	Membrane Adhesive II	-37.5 (Lim. 9; Non-HVHZ)
S-A-2	G40, L5	V-Force Vapor Barrier Membrane	Min. 1.5-inch ISO	I.S.O. Stick, I.S.O. Spray R or I.S.O. IA; Ribbons spaced 12-inch o.c.	-	-	EZ TPO	Membrane Adhesive	-45 (Lim. 9; Non-HVHZ)
S-A-3	G40, 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	-45 (Lim. 9; Non-HVHZ)
S-A-4	G40, L5	-	Min. 1.5-inch ISO	I.S.O. Stick, I.S.O. Spray R or I.S.O. IA; Ribbons spaced 12-inch o.c.	-	-	EZ TPO	Membrane Adhesive	-45 (Lim. 9; Non-HVHZ)
S-A-5	G40, 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 spaced 12-inch o.c.	DensDeck Prime	I.S.O. Spray R spaced 12-inch o.c.	EZ TPO	Membrane Adhesive II	-45 (Lim. 9; Non-HVHZ)
S-A-6	G40, 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 spaced 12-inch o.c.	DensDeck Prime	I.S.O. Spray R spaced 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	-45 (Lim. 9; Non-HVHZ)

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-7	G40, 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	-60 (Lim. 9; Non-HVHZ)
S-A-8	G40, 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	-75 (Lim. 9; Non-HVHZ)

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	G40	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	-30 (Lim. 7; Non-HVHZ)
S-AM-2	G40	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 or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-30 (Lim. 7; Non-HVHZ)
S-AM-3	G40	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	3/8-inch SECURROCK	HD Fasteners & Plates secured 8 per 4 ft x 8 ft board	EZ TPO	Membrane Adhesive II	-30 (Lim. 7; Non-HVHZ)
S-AM-4	G40	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	3/8-inch SECURROCK	HD Fasteners & Plates secured 8 per 4 ft x 8 ft board	EZ FB TPO	HA; PermaMop; FB-BA	-30 (Lim. 7; Non-HVHZ))
S-AM-5	G40	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	-37.5 (Lim. 7; Non-HVHZ)

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	G40, 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)
S-AM-7	G40	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 Membranes self-adhered under Min. 1.5-inch ISO	I.S.O. Stick; Ribbons spaced 12-inch o.c.	EZ TPO	Membrane Adhesive	-45 (Lim. 7; Non-HVHZ)
S-AM-8	G40	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	-45 (Lim. 7; Non-HVHZ)
S-AM-9	G40, 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	G40, 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	G40, 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 II	-45 (Lim. 7)
S-AM-12	G40	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 II	-45 (Lim. 7; Non-HVHZ)
S-AM-13	G40	Min. 0.5-inch Insulation	Preliminarily Secured or secured with top layer	Min. 0.375-inch DensDeck Prime	AP Fasteners & Plates secured 12 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	-45 (Lim. 7; Non-HVHZ)
S-AM-14	G40	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 II	-45 (Lim. 7; Non-HVHZ)

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-15	G40	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 or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-45 (Lim. 7; Non-HVHZ)
S-AM-16	G40	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 II	-45 (Lim. 7; Non-HVHZ)
S-AM-17	G40	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	-45 (Lim. 7; Non-HVHZ)
S-AM-18	G40	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-19	G40	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 ribbon adhered 4-inch o.c.	-45 (Lim. 7; Non-HVHZ)
S-AM-20	G40	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 ribbon adhered 12-inch o.c.	EZ TPO	Membrane Adhesive III	-45 (Lim. 7; Non-HVHZ)
S-AM-21	G40	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 ribbon adhered 12-inch o.c.	EZ FB TPO	FB-S ribbon adhered 6-inch o.c.	-45 (Lim. 7; Non-HVHZ)
S-AM-22	G40	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 applied in ribbons spaced 12-inch o.c.	EZ TPO	Membrane Adhesive II	-45 (Lim. 7; Non-HVHZ)

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	G40	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 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.	-45 (Lim. 7; Non-HVHZ)
S-AM-24	Min. 24 ga. form deck	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 2-inch ISO or ISO GF	AP Fasteners & Plates secured 15 per 4 ft. x 8 ft. board	EZ TPO	Membrane Adhesive II	-45 (Lim. 7; Non-HVHZ)
S-AM-25	G40, 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 or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-45 (Lim. 7)
S-AM-26	G40, 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 II	-45 (Lim. 7)
S-AM-27	G40, F1, L6, S24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1-inch ISO GF	AP Fasteners & Plates secured 20 per 4 ft. x 8 ft. board (Alt. Pattern)	EZ TPO	TPO Bonding Adhesive	-52.5 (Lim. 7)
S-AM-28	G40, 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 II	-52.5 (Lim. 7)
S-AM-29	G40, 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	-52.5 (Lim. 7)
S-AM-30	G40, 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	-60 (Lim. 7)
S-AM-31	G40, 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	-60 (Lim. 7)
S-AM-32	G40, 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	-60 (Lim. 7)
S-AM-33	G40, P, L6, S24	Min. 2-inch ISO or ISO GF	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	Min. 0.5-inch ISO or ISO GF followed by ISO HD	Insulation Adhesive II Ribbons spaced 6-inch o.c.	EZ TPO	Membrane Adhesive II	-60 (Lim. 7)

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	G40, P, L6, S24	Min. 2-inch ISO or ISO GF	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	Min. 0.5-inch ISO or ISO GF followed by ISO HD	Insulation Adhesive II Ribbons spaced 6-inch o.c.	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.;	-60 (Lim. 7)
S-AM-35	G40, 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	-60 (Lim. 7)
S-AM-36	G40, 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	-60 (Lim. 7)
S-AM-37	G40, 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	I.S.O. Stick or I.S.O. Spray R ribbons spaced 12-inch o.c.	EZ TPO	TPO Bonding Adhesive	-60 (Lim. 7)
S-AM-38	G40, 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	-62.5 (Lim. 9)
S-AM-39	G40, P, L6, S24	Min. 2-inch ISO or ISO GF	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	ISO HD	Insulation Adhesive II Ribbons spaced 6-inch o.c.	EZ TPO	Membrane Adhesive II	-67.5 (Lim. 7)
S-AM-40	G40, P, L6, S24	Min. 2-inch ISO or ISO GF	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	ISO HD	Insulation Adhesive II Ribbons spaced 6-inch o.c.	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.;	-67.5 (Lim. 7)
S-AM-41	G40, P, L6, S24	Min. 2-inch ISO	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	SECUROCK	I.S.O. Stick or I.S.O. Spray R ribbons spaced 6-inch o.c.	EZ TPO	Membrane Adhesive	-67.5 (Lim. 7)
S-AM-42	G40, P, L6, S24	Min. 2-inch ISO	AP Fasteners & Plates secured 18 per 4 ft. x 8 ft. board	SECUROCK	I.S.O. Stick or I.S.O. Spray R ribbons spaced 6-inch o.c.	EZ FB TPO	FB-BA, PermaMop; HA	-67.5 (Lim. 7)
S-AM-43	G40, 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	-67.5 (Lim. 7)
S-AM-44	G40, 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	-67.5 (Lim. 7)
S-AM-45	G40, 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	-67.5 (Lim. 7)
S-AM-46	G40, 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)

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-47	G40, 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 ribbon adhered 4-inch o.c.	-67.5 (Lim. 7)
S-AM-48	G40, 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	-75 (Lim. 7)
S-AM-49	G40, 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 at a rate 60 ft ² /gal	-75 (Lim. 7)
S-AM-50	G40, 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-51	G40, 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 ribbon adhered 4-inch o.c.	-75 (Lim. 7)
S-AM-52	G40, 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 ribbon adhered 6-inch o.c.	-82.5 (Lim. 7)
S-AM-53	G40, 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	-82.5 (Lim. 7)
S-AM-54	G40, F1, L6, S24	Min. 2-inch ISO or ISO GF	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.	-82.5 (Lim. 7)
S-AM-55	G40, 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-56	G40, 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 ribbon adhered 4-inch o.c.	-82.5 (Lim. 7)
S-AM-57	G40, 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-58	G80, F1, L6, S24	Min. 2-inch ISO or ISO GF	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-59	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)

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-60	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 ribbon adhered 4-inch o.c.	-127.5 (Lim. 7)

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-1	G40, L6	-	OPTIONAL 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 Fasteners & Plates; Side laps spaced 114-inch o.c.	-30 (Lim. 7; Non-HVHZ)
S-M-2	G40, L6	V-Force Vapor Barrier Membrane installed as Air Barrier over loose-laid DensDeck Prime	OPTIONAL Insulation	Preliminarily Secured or Secured with Top Layer	Min. 2-inch ISO or ISO GF	AP Fasteners and Plates secured min. 8 per 4-ft x 8-ft board	EZ 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)
S-M-3	G40, L6	V-Force Vapor Barrier Membrane installed as Air Barrier over loose-laid DensDeck Prime	OPTIONAL Insulation	Preliminarily Secured or Secured with Top Layer	Min. 1.5-inch ISO or ISO GF	AP Fasteners and Plates secured min. 6 per 4-ft x 8-ft board	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)
S-M-4	G40, 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 Polymer Batten Strip and Heavy-Duty fasteners spaced 12-inch o.c. along the batten	-37.5 (Lim. 7; Non-HVHZ)

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-5	G80, 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 (120-inch wide)	Attached in-lap 12-inch o.c. with HD Fasteners & Plates; 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	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 Fasteners & Plates spaced 12-inch o.c.	-37.5 (Lim. 7; Non-HVHZ)
S-M-7	G40	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	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)
S-M-8	G40	-	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 48-inch o.c. and secured with HD Fasteners & Plates spaced 24-inch o.c.	-45 (Lim. 7; Non-HVHZ)
S-M-9	G40	-	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 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	G40, 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 Fasteners & Plates; 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)

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-11	G40, P, L6, S24	DensDeck Prime loose-laid with V-Force Vapor Barrier Membrane installed as Air Barrier	OPTIONAL Insulation	Preliminarily Secured or Secured with Top Layer	Min. 2-inch ISO, ISO GF or ISOGARD HD Composite	AP Fasteners and Plates secured min. 8 per 4-ft x 8-ft board	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)
S-M-12	G40, P, L6	-	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 12-inch o.c. with HD Plus Fasteners & Plates; Fastener rows 90-inch o.c.	-45 (Lim. 7)
S-M-13	G40, 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 GF or ISOGARD HD Composite	Insulation Fastening Plates and Firestone 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	G40, 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 GF or ISOGARD HD Composite	Insulation Fastening Plates and Firestone 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	G40, 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)

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-18	G40, 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	G40, 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)
S-M-21	G40, 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 GF, 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	G40, 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	G40, 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	G40, 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)

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-26	G40, 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	G40, 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	G40, 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	G40, 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)
S-M-30	G40, 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	G40, 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	G40, 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	G40, 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	G40, 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)

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-35	G40, 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	G40, 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	G40, 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)
S-M-38	G40, F1, 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 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	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 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	G40, F1, L6, S24	(2) layers of V-Force Vapor Barrier Membrane installed as Air Barrier	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 3-inch ISO, ISO GF or ISO GARD HD Composite	Insulation Fastening Plates and Firestone 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 HD Fasteners & Plates; Side laps spaced 142-inch o.c.	-82.5 (Lim. 7)

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-41	G80, F2, L6, S24	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	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)
S-M-42	G80, 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 Plus Fasteners & Plates; Fastener rows 90-inch o.c.; Min. 5-inch wide heat weld encapsulating plates and fasteners	-82.5 (Lim. 7)
S-M-43	G80, 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 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	G40, F1, 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 Plus Fasteners & Plates; Fastener rows 90-inch o.c.; Min. 5-inch wide heat weld encapsulating plates and fasteners	-112.5 (Lim. 7)

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-45	G80, F2, L6, S24	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	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 Assemblies over Steel Deck (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	G40	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Invisiweld-S II 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	G40, L6, F1 or P	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	Invisiweld-S II 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	G40, L6, P, S24	-	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	-37.5 (Lim. 7; Non-HVHZ)

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-4	G40, L6, F1, S30	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	InvisiWeld-S II 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	G40, 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 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	G40, L5	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	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; Boards set with length perpendicular to deck ribs	EZ TPO	Induction welded to InvisiWeld plates	-45 (Lim. 7 ; Non-HVHZ)
S-W-7	G40, P, L6, S24	-	Min. 1-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	InvisiWeld fastened at a rate of 8 per 4 ft. x 8 ft. board	EZ TPO	Induction welded to InvisiWeld plates	-45 (Lim. 7)
S-W-8	G80, F2, L7, S24	-	Min. 1-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	InvisiWeld fastened 12" o.c. in rows 6-ft o.c. over Preliminarily Secured board	Min. 60 mil EZ TPO	Induction welded to InvisiWeld plates	-45 (Lim. 7)
S-W-9	G40, F1, L6, S24	V-Force Vapor Barrier Membrane installed as Air Barrier	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 2.5-inch/ISO, ISO GF or ISO HD-C	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)
S-W-10	G40, F1, L6, S24	V-Force Vapor Barrier Membrane installed as Air Barrier adhered over loose-laid SECUROCK	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 2.5-inch/ISO, ISO GF or ISO HD-C	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)

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-11	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 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 InvisiWeld plates	-52.5 (Lim. 7)
S-W-12	G40, F1, L6, S30	-	Min. 1.5-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	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; Boards set with length perpendicular to deck ribs	EZ TPO	Induction welded to InvisiWeld plates	-60 (Lim. 7)
S-W-13	G40, 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 4 ft ² in a staggered 2 ft x 2 ft grid	EZ TPO	Induction welded to Invisiweld-S plates	-60 (Lim. 7)
S-W-14	G80, F2, L7, S24	-	Min. 1-inch Insulation	Preliminarily Secured or secured with top layer	OPTIONAL Cover Board	InvisiWeld fastened at a rate of 8 per 4 ft. x 8 ft. board	Min. 60 mil EZ TPO	Induction welded to InvisiWeld plates	-60 (Lim. 7)
S-W-15	G40, 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	G40, 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	G40, 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)

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-18	G40, 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	G40, 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	G40, 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)
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 GF or ISO	I.S.O. Stick; ribbons 12-inch o.c.	EZ TPO	Membrane Adhesive	-45 (Lim. 9; Non-HVHZ)

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-3	T7/16O or T15/32P, L24	DensDeck Prime	I.S.O. IA; ribbons 12-inch o.c.	-	-	EZ TPO	Membrane Adhesive	-45 (Lim. 9; Non-HVHZ)
W-A-5	T7/16O or T15/32P, L24	DensDeck Prime	I.S.O. IA; ribbons 12-inch o.c.	-	-	EZ FB TPO	FB-BA, PermaMop; HA	-45 (Lim. 9; Non-HVHZ)
W-A-7	T19/32O, L24, N6/6	DensDeck Prime or SECUROCK	I.S.O. Fix II; ribbons 6-inch o.c.	-	-	EZ TPO	Membrane Adhesive II	-67.5 (Lim. 9; Non-HVHZ)
W-A-8	T19/32O, L24, N6/6	DensDeck Prime or SECUROCK	I.S.O. Fix II; ribbons 6-inch o.c.	-	-	EZ FB TPO	PermaMop; HA	-67.5 (Lim. 9; Non-HVHZ)
W-A-9	T7/16O, L24, N6/6	DensDeck Prime	I.S.O. Spray R ribbons spaced 12-inch o.c.	-	-	EZ FB TPO	I.S.O. Spray R ribbons spaced 12-inch o.c.	-75 (Lim. 9; Non-HVHZ)
W-A-11	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	-75 (Lim. 9; Non-HVHZ)
W-A-12	T15/32P, L24, N6/6	0.5-inch DensDeck Prime	I.S.O. Fix II; ribbons 6-inch o.c.	-	-	EZ TPO	Membrane Adhesive II	-75 (Lim. 9; Non-HVHZ)
W-A-14	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	-90 (Lim. 9; Non-HVHZ)
W-A-15	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-16	T7/16O, L24, N6/6	SECUROCK	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.	-90 (Lim. 9; Non-HVHZ)

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-1	T7/160	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	SECUROCK	HD Fasteners & Plates secured at a rate of 10 per 4-ft x 8-ft board (Alt. Pattern)	EZ TPO	Membrane Adhesive II	-30 (Lim. 7; Non-HVHZ)
W-AM-2	T7/160	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	SECUROCK	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	-30 (Lim. 7; Non-HVHZ)
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 II	-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	-37.5 (Lim. 7; Non-HVHZ)
W-AM-5	T7/160 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 or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-37.5 (Lim. 7; Non-HVHZ)
W-AM-6	T7/160 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 II	-37.5 (Lim. 7; Non-HVHZ)
W-AM-7	T7/160 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.	-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 II	-37.5 (Lim. 7; Non-HVHZ)

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-9	T7/16O, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1-inch ISO GF	AP Fasteners & Plates secured at a rate of 18 per 4-ft x 8-ft board	EZ FB TPO	FB-S ribbon adhered 6-inch o.c. or I.S.O. Spray R ribbon adhered 12-inch o.c.	-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 GF	AP Fasteners & Plates secured at a rate of 18 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive II	-37.5 (Lim. 7; Non-HVHZ)
W-AM-11	T19/32P, L24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	2-inch ISO GF	AP Fasteners & Plates secured at a rate of 8 per 4-ft x 8-ft board	Min. 60 mil EZ TPO	Membrane Adhesive II	-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 FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-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	Membrane Adhesive II	-45 (Lim. 7)
W-AM-14	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 or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-45 (Lim. 7; Non-HVHZ)
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 II	-45 (Lim. 7; Non-HVHZ)
W-AM-16	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 II	-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 FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-45 (Lim. 7; Non-HVHZ)

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-18	T19/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1-inch ISO GF	AP Fasteners & Plates secured at a rate of 20 per 4-ft x 8-ft board	EZ TPO	TPO Bonding Adhesive	-45 (Lim. 7)
W-AM-19	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 FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-45 (Lim. 7)
W-AM-20	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	Membrane Adhesive II	-45 (Lim. 7)
W-AM-21	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-22	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 or I.S.O. Spray R ribbon adhered 12-inch o.c	-45 (Lim. 7)
W-AM-23	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 II	-45 (Lim. 7)
W-AM-24	T7/16O, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck Prime, SECURACK, Min. 1-inch ISO GF 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 ribbon adhered 6-inch o.c. or I.S.O. Spray R ribbon adhered 12-inch o.c.	-45 (Lim. 7; Non-HVHZ)
W-AM-25	T7/16O, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	SECURACK, 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	-45 (Lim. 7; Non-HVHZ)
W-AM-26	T7/16O, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	DensDeck Prime, SECURACK, Min. 1-inch ISO GF 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 II	-45 (Lim. 7; Non-HVHZ)

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-27	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 GF 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 ribbon adhered 6-inch o.c. or I.S.O. Spray R ribbon adhered 12-inch o.c.	-45 (Lim. 7; Non-HVHZ)
W-AM-28	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	-45 (Lim. 7; Non-HVHZ)
W-AM-29	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 GF 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 II	-45 (Lim. 7; Non-HVHZ)
W-AM-30	T15/32P, L24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 2-inch ISO GF or ISO	HD Fasteners and Plates secured at a rate of 8 per 4-ft x 8-ft board	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.	-45 (Lim. 7; Non-HVHZ)
W-AM-31	T15/32P, L24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 2-inch ISO GF or ISO	HD Fasteners and Plates secured at a rate of 8 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive II	-45 (Lim. 7; Non-HVHZ)
W-AM-32	T15/32P, L24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISO GF or ISO	HD Fasteners and Plates secured at a rate of 12 per 4-ft x 8-ft board	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.	-45 (Lim. 7; Non-HVHZ)
W-AM-33	T15/32P, L24	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISO GF or ISO	HD Fasteners and Plates secured at a rate of 12 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive II	-45 (Lim. 7; Non-HVHZ)

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-34	T7/160, 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 II	-45 (Lim. 7; Non-HVHZ)
W-AM-35	T7/160, 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 or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-45 (Lim. 7; Non-HVHZ)
W-AM-36	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 or I.S.O. Spray R ribbon adhered 12-inch o.c.; HA; PermaMop; FB-BA	-52.5 (Lim. 7)
W-AM-37	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 II	-52.5 (Lim. 7)
W-AM-38	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 II	-52.5 (Lim. 9)
W-AM-39	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	-52.5 (Lim. 7)
W-AM-40	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	-52.5 (Lim. 7)
W-AM-41	T7/160, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1-inch ISO GF	AP Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft board	EZ FB TPO	FB-S ribbon adhered 6-inch o.c. or I.S.O. Spray R ribbon adhered 12-inch o.c.	-52.5 (Lim. 7; Non-HVHZ)
W-AM-42	T7/160, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1-inch ISO GF	AP Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive II	-52.5 (Lim. 7; Non-HVHZ)
W-AM-43	T7/160, L24, N6/6	Min. 1.5-inch ISO or ISO GF	AP Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft board	SECUROCK, DensDeck Prime, or ISO HD	Insulation Adhesive II	EZ TPO	Membrane Adhesive II	-52.5 (Lim. 7; Non-HVHZ)

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-44	T7/160, L24, N6/6	Min. 1.5-inch ISO or ISO GF	AP Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft board	SECUROCK or DensDeck Prime	Insulation Adhesive II	EZ FB TPO	FB-BA, PermaMop; HA	-52.5 (Lim. 7; Non-HVHZ)
W-AM-45	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 II	-55.0 (Lim. 9)
W-AM-46	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISO GF	AP Fasteners & Plates secured at a rate of 18 per 4-ft x 8-ft board	EZ FB TPO	FB-S or I.S.O. Spray R ribbon adhered 12-inch o.c.	-60 (Lim. 7)
W-AM-47	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 1.5-inch ISO GF	AP Fasteners & Plates secured at a rate of 18 per 4-ft x 8-ft board	EZ TPO	Membrane Adhesive II	-60 (Lim. 7)
W-AM-48	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 ribbon adhered 6-inch o.c. or I.S.O. Spray R ribbon adhered 12-inch o.c.; FB-BA, PermaMop or HA	-60 (Lim. 7; Non-HVHZ)
W-AM-49	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 ribbon adhered 6-inch o.c. or I.S.O. Spray R ribbon adhered 12-inch o.c.	-60 (Lim. 7; Non-HVHZ)
W-AM-50	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 II	-60 (Lim. 7; Non-HVHZ)
W-AM-51	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	-67.5 (Lim. 7)
W-AM-52	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	-67.5 (Lim. 7)
W-AM-53	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 II	-75 (Lim. 7)
W-AM-54	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 adhered 4-inch o.c.; FB-BA, PermaMop; HA	-75 (Lim. 7)

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	T15/32P, L24, N6/6	OPTIONAL Insulation	Preliminarily Secured or secured with top layer	Min. 2-inch ISO GF, 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	-75 (Lim. 7)
W-AM-56	T15/32P, L24, N6/6	Min. 1.5-inch ISO or ISO GF	AP Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft board	SECUROCK, DensDeck Prime, or ISO HD	Insulation Adhesive II	EZ TPO	Membrane Adhesive II	-75 (Lim. 7)
W-AM-57	T15/32P, L24, N6/6	Min. 1.5-inch ISO or ISO GF	AP Fasteners & Plates secured at a rate of 24 per 4-ft x 8-ft board	SECUROCK or DensDeck Prime	Insulation Adhesive II	EZ FB TPO	FB-BA, PermaMop; HA	-75 (Lim. 7)
W-AM-58	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 II	-82.5 (Lim. 7)
W-AM-59	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	-82.5 (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	T7/160 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	T7/160 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	T7/160 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)

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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-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)

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 GF, 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)

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