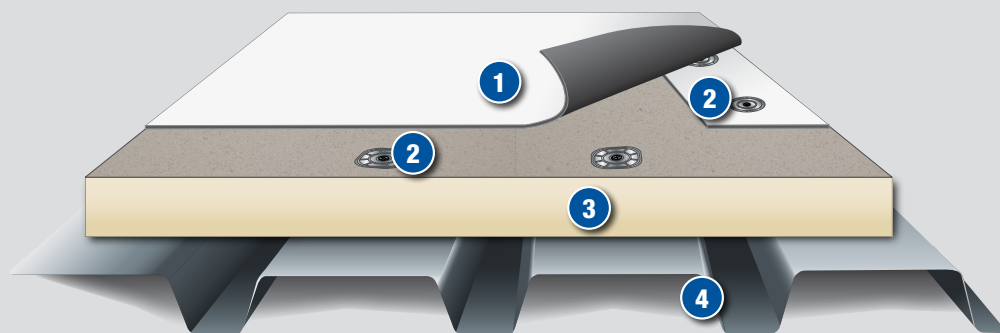


Sure-Weld® TPO

Mechanically Fastened Systems

Warranty Submittal Sheet



Typical Applications

- 1 Sure-Weld TPO Membrane
- 2 Carlisle fasteners and plates
- 3 Carlisle Approved insulation
- 4 Approved roof deck

Sure-Weld 5-, 10-, 15-, and 20-year Total System Warranties*

1. **Membrane** (fastened at 12" on center with maximum 10'-wide field sheets)^{1,2}:
 - 45-mil Sure-Weld TPO (15-year max.)
 - 60-mil Sure-Weld TPO
 - 80-mil Sure-Weld TPO
 - 60-mil Spectro-Weld TPO
 - 80-mil Spectro-Weld TPO
 - 45-mil Sure-Weld HS (15-year max.)
 - 60-mil Sure-Weld HS
 - 80-mil Sure-Weld HS
2. **Membrane Fasteners:**
 - CD-10 Fasteners (concrete)
 - HP Purlin Fasteners (metal retrofit only)
 - HP-Xtra Fasteners (steel/wood)
 - HD 14-10 Fasteners (concrete)
 - HP-X Fasteners™ (steel/wood)
 - GypTec® Fasteners (gypsum/cementitious wood fiber)
3. **Membrane Seam Plates:**
 - Piranha Plates
 - Piranha Xtra Plates (HP-Xtra fasteners only)
 - GypTec Plates (gypsum/cementitious wood fiber)
 - RhinoBond®/isoweld® Plates
4. **Carlisle Insulation Fasteners** (with insulation plates):
 - HP Fasteners (steel/wood)
 - InsulFast™ Fasteners (steel/wood)
 - ASAP Fasteners (steel/wood)
 - HP-X Fasteners (steel/wood)
5. **Cover Board** (optional):
 - CD-10 Fasteners (concrete)
 - HD 14-10 Fasteners (concrete)
 - Lite-Deck Fasteners (gypsum/cementitious wood fiber)
 - GypTec Fasteners (gypsum/cementitious wood fiber)
 - SecurShield® HD
 - SecurShield HD Plus
 - SecurShield HD Composite
 - DensDeck® (15-year max. on re-cover)
 - SECURROCK® (15-year max. on re-cover)
 - R-Tech™ Fanfold Recovery Board (re-cover or over acceptable insulation)
 - HP Recovery Board (with acceptable insulation, 15-year max. on re-cover)
6. **Carlisle Approved Insulation:**
 - InsulBase® Polyisocyanurate
 - SecurShield Polyisocyanurate
 - Insulfoam EPS (Min. 1.25 lb. density)
 - Insulfoam HD Composite
 - Insulfoam SP
 - XPS
7. **Vapor Barrier** (optional for new or tear-off only):
 - VapAir Seal™ 725TR
 - VapAir Seal MD
 - Polyethylene (by others)
 - Other
8. **Thermal Barrier** (optional for new or tear-off only, not for use directly over concrete decks):
 - DensDeck Prime/DensDeck
 - SECURROCK Gypsum Fiber
 - Other
9. **Deck:**
 - 22-gauge or heavier steel
 - Structural concrete
 - Wood plank
 - Minimum 1 5/32" plywood
 - Gypsum
 - Cementitious wood fiber
10. **Metal Edging:**
 - Shop-fabricated metal
 - Carlisle SecurEdge™
 - Metal by others
11. **Applicable Details:**
 - MF-1A, MF-2, MF-8, MF-22, MF-27, U-1, U-2, U-3, U-5, U-6, U-8, U-9, U-12, U-13, U-15, U-16, and U-18.**
12. **Construction Type:**
 - New Construction
 - Complete Tear-off
 - Re-cover
 - Remove and replace wet or damaged insulation prior to installation.
13. **Slope:**
 - 18" per foot maximum.

Notes:

1. Over gypsum or cementitious wood fiber decks, maximum 9" on center fastener spacing is required for 10' sheets.

2. Refer to Carlisle's specifications and details for required perimeter enhancements. For buildings 61'-100' tall, enhance membrane fastening to 6" on center.

*Buildings up to 60' tall with 55-mph wind speed coverage. Projects requiring warranty wind speeds greater than 55-mph should be reviewed by a Carlisle representative. All products must be supplied by Carlisle to be included in the warranty coverage. All roof systems can only be accepted upon inspection by a Carlisle Syntec Field Service Representative. Carlisle reserves the right to change or enhance any of the above components due to specific or unique project conditions. The intent of this document is to verify the proposed roof assembly meets the requested warranty. Carlisle is not responsible for local and state building code requirements, and any discrepancy should be clarified by the design professional of record. Refer to Carlisle's most currently published specifications and details for additional information.

**Includes all iterations of each detail. For example, U-1 encompasses U-1A, U-1B, U-1C, U-1D, and U-1F.

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Warranty Submittal Sheet

Insulation Fastening Rates 5-, 10-, 15-year Warranty		Insulation Fastening Rates 20-year Warranty	
Insulation (top layer)	4' x 8' board	Insulation (top layer)	4' x 8' board
Acceptable coverboard and/or insulation	4 ¹	Acceptable coverboard and/or insulation	6 ¹

¹Recover projects require 8 fasteners and insulation plates per 4' x 8' board.