



# UL Solutions Evaluation Report

## UL ER14751-01

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**UL Solutions Category Code: ULEZ – Steep-slope Roofing**

### **CSI MasterFormat®**

DIVISION: 07 00 00 THERMAL AND MOISTURE PROTECTION

Sub-level 2: 07 30 00 - Steep Slope Roofing

Sub-level 3: 07 41 00 – Roof Panels

Sub-level 4: 07 41 13 – Metal Roof Panels

### **Company:**

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# UL Solutions Evaluation Report

## 1. Subject:

UNA-CLAD® Standing Seam Metal Roof Panels

UC-3, UC-4, UC-6, UC-6HD, UC-6NT, UC-14, GenFlex UC-3, GenFlex UC-4, GenFlex UC-6, GenFlex UC-6 HD, GenFlex UC-6NT, GenFlex UC-14, DefendEX-SL1750, DefendEX-SS1500, DefendEX-SL1500, DefendEX-SS2000 HD, DefendEX-SS2000, and DefendEX SS2000 NT

## 2. Scope of evaluation

- 2024, 2021, 2018, 2015, 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2024, 2021, 2018, 2015, 2012, 2009 and 2006 *International Residential Code*® (IRC)
- ICC ES Acceptance Criteria for Metal Roof Coverings (AC166)
- ICC ES Acceptance Criteria for Quality Documentation (AC10)

The products underwent evaluation for the following properties:

- Roofing Systems for Exterior Fire Exposure (UL 790)
- Roofing Systems, Wind Uplift Resistance (UL 1897)
- Roof Deck Construction (UL 580)
- Wind and Wind Driven Rain Resistance (TAS 100-95)

## 3. Reference documents

- UL 790, Standard Test Methods for Fire Tests of Roof Coverings
- UL 1897, Standard for Uplift Tests for Roof Covering Systems
- UL 580, Standard for Tests for Uplift Resistance of Roof Assemblies
- TAS 100 Standard Test Method for Wind and Wind Driven Rain Resistance of Discontinuous Roof Systems
- ICC ES Acceptance Criteria for Metal Roof Coverings (AC166)
- ICC ES Acceptance Criteria for Quality Documentation (AC10)

## 4. Uses

UNA-CLAD® Metal Roof Panels are used as roof coverings in Class A or B roof covering systems on combustible and noncombustible decks for new and existing roofs when installed in accordance with this report and the manufacturer's published installation instructions.

## 5. Product description

### 5.1 General:

UNA-CLAD® Metal Roof Panels are metal roof coverings complying with Section 1507.4 of the IBC and Section R905.10 of the IRC.

UNA-CLAD® Metal Roof Panels are formed from one of the following:

- Minimum 0.032 aluminum complying with ASTM B209 and having a minimum yield strength of 20 ksi,
- Minimum 24 gauge galvanized steel complying with ASTM A653 G90 and having a minimum yield strength of 50 ksi,
- Minimum 24 gauge galvalume (Aluminum-zinc alloy coated) steel complying with ASTM A792 AZ50 and having a minimum yield strength of 50 ksi,
- Minimum 16 oz. copper complying with ASTM B370 and having minimum yield strength of 38 ksi.

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### 5.2 UC-3, GenFlex UC-3, DefendEX-SS1500:

Panels are formed into 8-inch to 20-inch-wide (203 mm to 508 mm) panels, with 1.5-inch-high (25 mm or 38 mm) mechanically locking seams. See Figure 1 for additional details.

### 5.3 UC-4, GenFlex UC-4, DefendEX-SL1500:

Panels are formed into 9.75-inch to 17.75-inch-wide (248 mm to 451 mm) panels, with 1.5-inch-high (38 mm) snap-locking seams. See Figure 2 for additional details.

### 5.4 UC-6, GenFlex UC-6, DefendEX-SS2000:

Panels are formed into 8-inch to 24-inch-wide (203 mm to 610 mm) panels, with 2.0-inch-high (38 mm or 51 mm) mechanically locking seams. See Figure 3 for further details.

### 5.5 UC-6 HD, GenFlex UC-6 HD, DefendEX-SS2000 HD:

Panels are formed into 12-inch to 22-inch-wide (305 mm to 559 mm) panels, with 2.0-inch-high (38 mm or 51 mm) mechanically locking seams. See Figure 4 for further details.

### 5.6 UC-6 NT, GenFlex UC-6 NT, DefendEX SS2000 NT:

Panels are formed into 12-inch to 22-inch-wide (305 mm to 559 mm) panels, with 2.0-inch-high (38 mm or 51 mm) mechanically locking seams. See Figure 5 for further details.

### 5.7 UC-14, GenFlex UC-14, DefendEX-SL1750:

Panels are formed into 8-inch to 18-inch-wide (203 mm to 457 mm) panels, with 1.75-inch-high (44 mm) mechanically locking seams. See Figure 6 for further details.

**Fire Classification:** The UNA-CLAD® Metal Roof Panels covered under this Report have been tested for fire classification in accordance with UL 790 complying with Section 1505.1 of the IBC and Section R902.1 of the IRC.

**Wind Resistance:** The UNA-CLAD® Metal Roof Panels covered under this Report have been tested for wind resistance in accordance with UL 580 and UL 1897 complying with Section 1504.4.1 of the 2024 and 2021 IBC and Section 1504.3.1 of the 2018, 2015, 2012, 2009 and 2006 IBC.

The roofing assemblies shall be designed to resist the design wind load pressures for components and cladding in accordance with Chapter 16 and Section 1504.4 of the 2024, and 2021 IBC, Section 1504.3 of the 2018, 2015, 2012, 2009 and 2006 IBC and Section R905.1 of the IRC.

**Wind-Driven Rain Resistance:** The UNA-CLAD® Metal Roof Panels covered under this Report have been tested for wind-driven rain resistance in accordance with Section 4.2 of AC 166.

## 6. Installation

### 6.1 General:

The UNA-CLAD® Metal Roof Panels must be installed in accordance with the applicable code, this report and the manufacturer's published installation instructions. Installation must be in accordance with Section 1507.4 of the IBC or Section R905.10 of the IRC, as applicable, except as noted in this report.

The manufacturer's published installation instructions must be available at all times on the jobsite during installation.

The UNA-CLAD® Metal Roof Panels must be installed on solid or closely fitted decking or steel decking as specified in Section 7.1 on roofs with minimum slopes of 3:12 (25-percent slope).

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Penetrations and terminations of the panels must be flashed and made weather tight in accordance with the manufacturer's published installation instructions and Section 1503.2 of the IBC or Section R903.2 of the IRC as applicable.

### 7. Components

#### 7.1 Roof Deck:

The roof deck must be code-compliant, minimum 15/32 inch-thick (11.9 mm) exterior plywood sheathing or minimum 7/16 inch-thick (11.1 mm) oriented strand board (OSB) complying with Section 2304.8.2 of the 2024, 2021, 2018, and 2015 IBC, Section 2304.7.2 of the 2012 and 2009 IBC or Section R803 of the IRC, or steel designed and constructed in accordance with AISI S310 as referenced in Section 2208.1 of the 2024 IBC, ANSI/SDI-RD1.0 referenced in Section 2210.1.1.2 of the 2021, 2018, 2015 and 2012 IBC, and Section 2209.2.3 of the 2009 IBC.

Refer to Section 8 for specific construction requirements for Uplift Resistance assemblies.

#### 7.2 Clips

The clips used to fasten the panels, flashing and accessories to the sheathing are formed as described below.

**7.2.1 UC-3 Fixed Clip/DefendEX SS1500 Fixed Clip:** ASTM A653 G90, minimum 24 gauge [0.024 inch thick (0.61 mm)]; or 300 series stainless steel, minimum No. 26 gauge [0.018 inch thick (0.46 mm)].

**7.2.2 UC-3 Expansion Clip/GenFlex UC-3 Expansion Clip/DefendEX-SS1500 - Expansion Clip:** 300 series stainless steel, minimum No. 28 gauge [0.016 inch thick (0.41 mm)].

**7.2.3 UC-3 Super Clip/GenFlex UC-3 Super Clip/DefendEX SS1500 Super Clip:** ASTM A653 G90 or 300 series stainless steel; G90, minimum No. 22 gauge [0.031 inch thick (0.79 mm)] base with 24 gauge [0.025 (0.64 mm)] tab. Stainless steel, minimum No. 24 gauge [0.024 inch thick (0.61 mm)] base with 26 gauge [0.018 inch thick (0.46 mm)] tab.

**7.2.4 UC-6 Fixed Clip/DefendEX SS2000 Fixed Clip:** ASTM 653 G90 steel, minimum No. 24 gauge [0.023 inch thick (0.58 mm)].

**7.2.5 UC-6 Low-Float Clip/GenFlex UC-6 Low-Float Clip/DefendEX-SS2000-LowFloatClip:** ASTM 653 G90 or 300 series stainless steel; G90, minimum No. 16 gauge [0.058 inch thick (1.47 mm)] base with No. 22 gauge [0.031 inch thick (0.79 mm)] tab. Stainless steel, minimum No. 22 gauge [0.031 inch thick (0.79 mm)] tab.

**7.2.6 UC-6 Super Clip/GenFlex UC-6 Super Clip/DefendEX-SS2000-SuperClip:** ASTM A653 G90 or 300 series stainless steel; G90, minimum No. 22 gauge [0.031 inch thick (0.79 mm)] base with No. 24 gauge [0.025 inch (0.64 mm)] tab. Stainless steel, minimum No. 24 gauge [0.024 inch thick (0.61 mm)] base with 26 gauge [0.018 inch thick (0.46 mm)] tab.

**7.2.7 UC-6NT Clip/GenFlex UC-6 NT:** ASTM A653 G90 or 300 series stainless steel; G90, minimum No. 22 gauge [0.031 inch thick (0.79 mm)] base with No. 22 gauge [0.031 inch (0.79 mm)] tab. Stainless steel, minimum No. 22 gauge [0.031 inch thick (0.79 mm)] base with 22 gauge [0.031 inch thick (0.79 mm)] tab.

**7.2.8 UC-14 Clip/GenFlex UC-14 Clip:** ASTM A653 G90 or 30 series stainless steel minimum No. 18 gauge [0.050 inch thick (1.27 mm)].

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**7.2.9 UC Bearing Plate/GenFlex UC Bearing Plate:** ASTM A653 G90 or 300 series stainless steel; minimum No. 20 gauge [0.037 inch thick (0.94 mm)] and No. 22 gauge [0.032 inch thick (0.82 mm)], respectively.

Refer to Section 8 for specific steel clips requirements for Uplift Resistance assemblies.

### 7.3 Fasteners:

**7.3.1 Tru-Fast Corp T-17:** # 10-12 by min. 1-inch self-drilling fasteners with a 0.435-inch-diameter (11 mm) pancake head are available in galvanized and stainless steel.

**7.3.2 Firestone Drill Point Fasteners:** # 12-13 self-drilling fasteners with 0.435-inch-diameter (11 mm) pancake head. Firestone Drill Point Fasteners, as specified in the manufacturer's published installation instructions, are made from carbon steel and have a red epoxy coating.

Refer to Section 8 for specific construction requirements for Uplift Resistance assemblies.

### 7.4 Underlayment and Flashing:

Where specified in Tables 1-14, CLAD-GARD SA-FR is an acceptable alternate to the underlayment specified in Section 1507.4.5 of the 2024, 2021, 2018, 2015, and 2012 IBC, Section 1507.5.3 of the 2009 and 2006 IBC, and Section R905.10.6 of the 2024 IBC, Section R905.10.5 of the 2021, 2018, 2015, 2012, and 2009 IRC. Flashing must be installed in accordance with Section 1503.2 of the IBC or Section R903.2 of the IRC, as applicable.

### 7.5 Insulation:

Foam plastic insulation, where used, must have a flame-spread index of not more than 75 in accordance with ASTM E84 or UL 723 when tested at the maximum thickness and density intended for use. Polyisocyanurate foam plastic insulation must comply with ASTM C1289. See Tables 1-14 for insulations used with specific roof systems.

## 8. Wind Resistance:

Roofing assemblies shall be designed to resist the design wind load pressures for components and cladding in accordance with Section 1609, Section 1504.1 of the 2024 and 2021 IBC, Section 1504.3 of the 2018, 2015, 2012, 2009 and 2006 IBC and Section R905.1 of the IRC.

## 9. Fire Classification:

### 9.1 New Construction – Installation as Class A, and B Prepared Roof Coverings:

The UNA-CLAD® Metal Roof Panels covered by this report are components of roof assemblies classified as Class A roof assemblies in accordance with ASTM E108 or UL 790 when installed as specified in Tables 1-14.

Refer to the UL Certification Category for Roofing Systems (TGFU) (UL 790), and Roof Deck Constructions (TJPV) (UL 580), File R14751 for applicable coverage and details of the roof assembly.

Under the IBC, or 2012 IRC, copper and steel roof panels are considered Class A roof coverings when installed without insulation as described in Section 6 of this report on steel roof decks in accordance with IBC Section 1505.2 and IRC Section R902.1. The copper roof panels are considered Class A roof coverings when installed without insulation described in section 6 of this report in accordance with Exception 3 to IBC Section 1505.2 and Exception 3 to IRC Section R902.1.

### 9.2 Reroofing – Installation as Class A Prepared Roof Coverings:

The existing roof shall be inspected in accordance with the provisions and limitations of Section 1512 of the 2024 and 2021 IBC, Section 1511 of the 2018 and 2015 IBC, Section 1510 of the 2012, 2009 and 2006 IBC, Section R908 of the 2024, 2021, 2018, and 2015 IBC, and Section R907 of the 2012, 2009 and 2006 IRC, as applicable. Prior to the reroofing, hip and ridge coverings must be removed.

Flashing and edging must comply with Section 7.2 and with Sections 1512.4 and 1512.5 of the 2024 and 2021 IBC, Sections 1511.5 and 1511.6 of the 2018 and 2015 IBC, Sections 1510.5 and 1510.6 of the 2012, 2009 and 2006 IBC, Sections R908.5 and R908.6 of the 2024, 2021, 2018, and 2015 IRC, and Sections R907.5 and R907.6 of the 2012, 2009 and 2006 IRC, as applicable.

## 10. Condition of use

### 10.1 General:

The UNA-CLAD® Metal Roof Panels described in this Report comply with, or are suitable alternatives to, what is specified in those codes listed in Section 2 of this Report, subject to the following conditions:

- 10.2** Materials and methods of installation shall comply with this Report and the manufacturer's published installation instructions. In the event of a conflict between the installation instructions and this Report, this Report governs.
- 10.3** Only UNA-CLAD® metal accessories and specified fasteners shall be used in the installation of the roof covering system.
- 10.4** See Product iQ® for products evaluated for uplift resistance in accordance with UL 580, Tests for Uplift Resistance of Roof Assemblies ([TJPV](#)).
- 10.5** See Product iQ® for products evaluated for roof coverings in roof-ceiling designs in accordance with UL 263, Fire Tests of Building Constructions and Materials ([CETW](#)).
- 10.6** See Product iQ® for products evaluated for impact resistance in accordance with UL 2218, Impact Resistance of Prepared Roof-covering Materials ([TGAM](#)).
- 10.7** See Product iQ® for products evaluated for exterior fire exposure in accordance with UL 790, Fire Resistance of Roof Covering Materials ([TGFU](#)).
- 10.8** See Product iQ® for products evaluated for uplift resistance in accordance with UL 1897, Tests for Uplift Resistance of Roof Assemblies ([TGIK](#)).
- 10.9** Wind uplift pressures on any roof area, including edges and corner zones shall not exceed the allowable wind pressure for the roof covering installed in that particular area. The allowable wind uplift pressure for the roof assembly shall be based on a minimum factor of safety of 2.0 as shown in the Classification for uplift resistance (TGIK). The allowable wind uplift pressure is for the roof system only. The deck and framing to which the roofing system is attached shall be designed for the applicable component and cladding, wind loads in accordance with the applicable code.
- 10.10** When application is over an existing roof, documentation of the wind uplift resistance of the composite roof construction shall be submitted to the code official.
- 10.11** The UNA-CLAD® Metal Roof Panels covered under this report are produced by Firestone Metal Products, LLC. in Anoka, MN under the UL LLC Listing/Classification and Follow-Up Service

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Program, which includes audits in accordance with quality elements of ICC-ES Acceptance Criteria for Quality Documentation, AC 10.

- 10.12** UNA-CLAD® Standing Seam Metal Roof Panels are manufactured by Amrize Building Envelope, LLC, located at the manufacturing location named below, under the UL LLC Listing/Classification and Follow-Up Service Program, which includes inspections in accordance with the quality elements of ICC-ES Acceptance Criteria for Quality Documentation, AC 10.

Location	Plant ID (if applicable)
Anoka, MN	N/A

### 12. Supporting evidence

- 12.1** Data in accordance with ICC-ES Acceptance Criteria for Metal Roof Coverings, AC166.
- 12.2** Manufacturer's descriptive product literature, including installation instructions.
- 12.3** UL Listing Reports in accordance with UL 790. See UL Product Certification Category for Roofing Systems Certified for Fire Resistance (TGFU), File R14751.
- 12.4** UL Classification Reports in accordance with UL 580. See UL Product Certification Category for Roof Deck Constructions, Metal Roof Deck Panels (TJPV), File R14751.
- 12.5** Documentation of quality system elements described in ICC-ES Acceptance Criteria for Quality Documentation, AC10.

### 13. Identification

The **UNA-CLAD® Standing Seam Metal Roof Panels** described in this evaluation report are identified by a marking bearing the report holder's name, Amrize Building Envelope, LLC; the plant identification; the UL Solutions Listing/Classification Mark; and the evaluation report number UL Solutions **ER14751-01**. The validity of the evaluation report is contingent upon this identification appearing on the product or UL Solutions Listing/Classification Mark certificate.

### 14. Use of UL Solutions Evaluation Reports

- 14.1** The approval of building products, materials or systems is under the responsibility of the applicable code authorities.
- 14.2** UL Solutions Evaluation Reports shall not be used in any manner that implies an endorsement of the product, material or system by UL Solutions.
- 14.3** The current status of this report, as well as a complete directory of UL Solutions Evaluation Reports, may be found at [UL.com/Solutions](http://UL.com/Solutions) via Product iQ®.

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## Assemblies

(GenFlex and DefendEX roof panels and clips are acceptable alternates where corresponding UNA CLAD products are specified)

<b>Table</b>	<b>Profile</b>	<b>Material</b>	<b>Thickness</b>
<a href="#">1</a>	UC-3	Steel	24 Gauge
<a href="#">2</a>	UC-3	Aluminum	.032 inches
<a href="#">3</a>	UC-3	Aluminum	.040 inches
<a href="#">4</a>	UC-3	Copper	16 ounce
<a href="#">5</a>	UC-4	Steel	24 Gauge
<a href="#">6</a>	UC-4	Aluminum	.032 inches
<a href="#">7</a>	UC-4	Aluminum	.040 inches
<a href="#">8</a>	UC-4	Copper	16 ounce
<a href="#">9</a>	UC-6	Steel	24 Gauge
<a href="#">10</a>	UC-6	Aluminum	.032 inches
<a href="#">11</a>	UC-14	Steel	24 Gauge
<a href="#">12</a>	UC-14	Aluminum	.032 inches
<a href="#">13</a>	UC-6NT	Steel	22, 24 Gauge
<a href="#">14</a>	UC-6NT	Aluminum	.032 inches

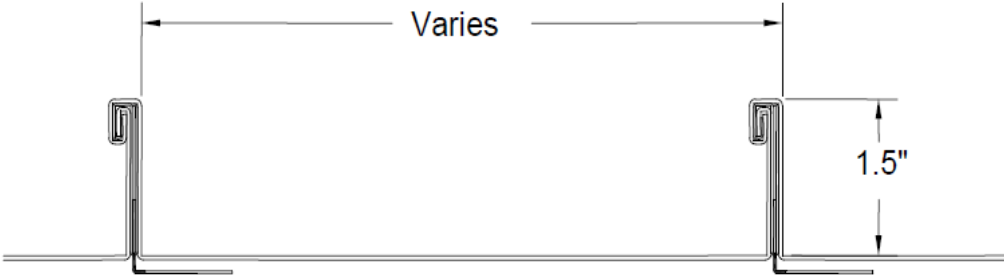


Figure 1 – UC-3 Panel Profile

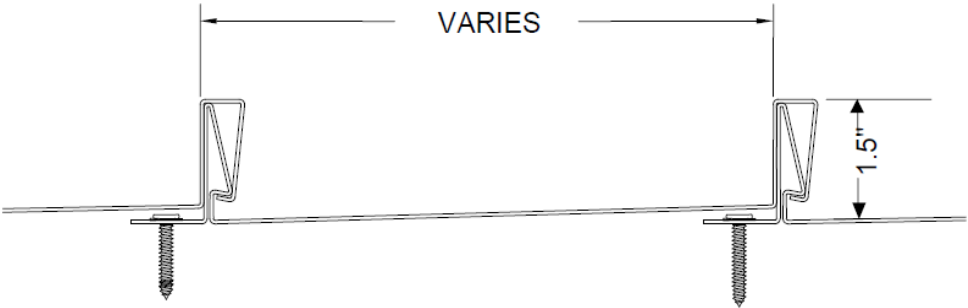


Figure 2 – UC-4 Panel Profile

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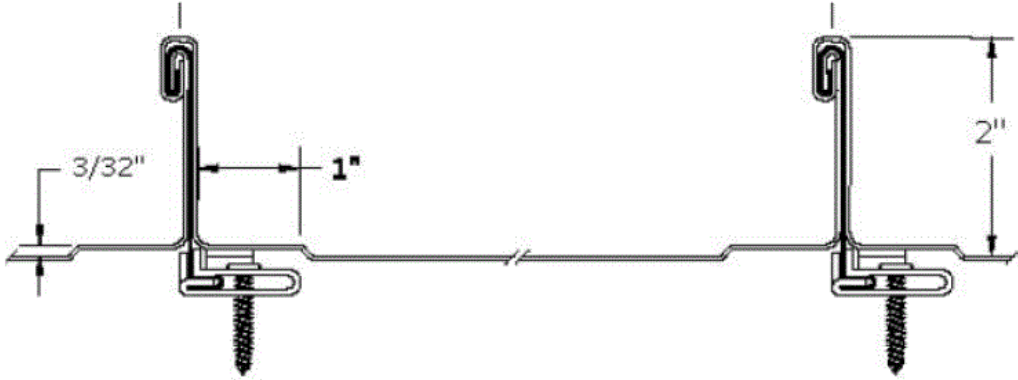


Figure 3 – UC-6 Panel Profile

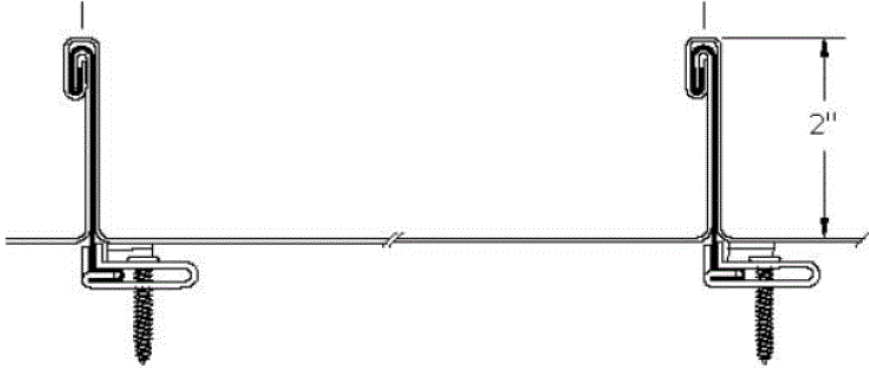


Figure 4 – UC-6 HD Panel Profile



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<a href="#">Table 1</a>						
Panel - UC-3 24 gauge steel 16 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Barrier Product <sup>5</sup>	Ply Sheet	Allowable Uplift Pressure
1	Plywood	UC-3 Expansion clip at 18 inches o.c. attached with two #10-12 Pancake Head wood screws	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD or ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, Clad-GARD SA-S, Clad-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-79
2			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-79
3		UC-3 Expansion clip at 12 inches o.c. attached with two #10-12 Pancake Head wood screws	Optional: Any thickness ISO 95+ GL, RESISTA, ISOAGATD HD or ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, Clad-GARD SA-S, Clad-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-86
4			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-86
5		UC-3 Expansion clip at 8 inches o.c. attached with two #10-12 Pancake Head wood screws	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGDARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, Clad-GARD SA-S, Clad-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-101
6			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-101

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<a href="#">Table 1</a> (continued)						
Panel - UC-3 24 gauge steel 16 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Barrier Product <sup>5</sup>	Ply Sheet	Allowable Uplift Pressure
7	Plywood	UC-3 Super Clip at 6 inches o.c. attached with two #10-12 Pancake Head wood screws	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD or ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, Clad-GARD SA-S, Clad-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-129
8			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-129

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<a href="#">Table 1</a> (continued)						
Panel - UC-3 24 gauge steel 16 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Barrier Product <sup>5</sup>	Ply Sheet	Allowable Uplift Pressure
9	OSB or Plywood	UC-3 Expansion clip at 24 inches o.c. attached with two #10-12 Pancake Head wood screws	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD or ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, Clad-GARD SA-S, Clad-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-75
10			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-75
11		UC-3 Super Clip at 30 inches o.c. attached with two #10-12 Pancake Head wood screws	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD or ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, Clad-GARD SA-S, Clad-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-68
12			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-68
13		UC-3 Super Clip at 36 inches o.c. attached with two #10-12 Pancake Head wood screws	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD or ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, Clad-GARD SA-S, Clad-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-30
14			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-30

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<a href="#">Table 1</a> (continued)						
Panel - UC-3 24 gauge steel 16 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Barrier Product	Ply Sheet	Allowable Uplift Pressure
15	Steel	UC-3 Super Clip at 12 inches o.c. attached with two #12-13 Drill Point fasteners	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD or ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, Clad-GARD SA-S, Clad-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-81
16			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-81
17		UC-3 Super Clip at 30 inches o.c. attached with two #12-13 Drill Point fasteners	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD or ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, Clad-GARD SA-S, Clad-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-53
18			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-53

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<a href="#">Table 1</a> (continued)						
Panel - UC-3 24 gauge steel 20 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Cover Board, Barrier Product	Ply Sheet	Allowable Uplift Pressure
19	Steel	UC-3 Expansion Clip at 12 inches o.c. attached with two #12-13 Drill Point fasteners	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, Clad-GARD SA-S, Clad-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-53
20						
21						
22		UC-3 Expansion Clip at 12 inches o.c. attached with two #10-12 Pancake Head wood screws, secured to the cover board	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	Min 7/16 in. OSB or min 1-½ in. HailGard Composite Board installed with HD HailGard Fasteners at a rate of 24 per 4 ft x 8 ft board.	CLAD-GARD SA-FR Underlayment	-53
23				Min. 7/16 in. OSB or min. 1-½ in. HailGard Composite Board installed with Firestone All-Purpose Fasteners and Insulation Fastening Plates at a rate of 16 per 4 ft x 8 ft board.		

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<a href="#">Table 2</a>						
Panel - UC-3 .032 Aluminum 16 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Barrier Product <sup>5</sup>	Ply Sheet	Allowable Uplift Pressure
24	Plywood or OSB	UC-3 Expansion clip at 18 inches o.c. attached with two #10-12 Pancake Head wood screws	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, Clad-GARD SA-S, Clad-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-75
25			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-75
26		UC-3 Super clip at 24 inches o.c. attached with two #10-12 Pancake Head wood screws	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, Clad-GARD SA-S, Clad-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-53
27			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-53
28		UC-3 Expansion clip at 24 inches o.c. attached with two #10-12 Pancake Head wood screws	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, Clad-GARD SA-S, Clad-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-45
29			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-45

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<a href="#">Table 2</a> (continued)						
Panel - UC-3 .032 Aluminum 16 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Cover Board	Ply Sheet	Allowable Uplift Pressure
30	Steel	UC-3 Expansion Clip at 18 inches o.c. attached with two #10-12 Pancake Head wood screws, fastened to HailGard	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	Min 1-½ in. HailGard Composite Board installed with HD HailGard Fasteners at a rate of 12 per 4 ft x 8 ft board.	CLAD-GARD SA-FR Underlayment	-68
31				Min. 1-½ in. HailGard Composite Board installed with HD HailGard Fasteners at a rate of 8 per 4 ft x 8 ft board.		-53
32		UC-3 Expansion Clip at 24 inches o.c. attached with two #10-12 Pancake Head wood screws, secured to HailGard		-45		

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<a href="#">Table 2</a> (continued)						
Panel - UC-3 .032 Aluminum 20 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Cover Board, Barrier Product <sup>5</sup>	Ply Sheet	Allowable Uplift Pressure
33	Plywood	UC-3 Super Clip at 12 inches o.c. attached with two #10-12 Pancake Head wood screws	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, Clad-GARD SA-S, Clad-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-129
34			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-129
35	Steel	UC-3 Expansion Clip at 12 inches o.c. attached with two #12-13 Drill Point fasteners	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or 1/2 in thick min UL Classified Gypsum board with joints in barrier board offset 6 in. with joints in deck or CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, Clad-GARD SA-S, Clad-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	53
36			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-53
37		UC-3 Expansion Clip at 12 inches o.c. attached with two #10-12 Pancake Head wood screws, secured to the cover board	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	Min. 7/16 in. OSB or min. 1-½ in. HailGard Composite Board installed with HD HailGard Fasteners at a rate of 24 per 4 ft x 8 ft board.	CLAD-GARD SA-FR Underlayment	-53

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<a href="#">Table 3</a>						
Panel - UC-3 .040 Aluminum 12 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Barrier Product	Ply Sheet	Allowable Uplift Pressure
38	Steel	UC-3 Super Clip at 12 inches o.c. attached with two #12-13 Drill Point fasteners	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, Clad-GARD SA-S, Clad-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-150
39			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-150
40		UC-3 Super Clip at 18 inches o.c. attached with two #12-13 Drill Point fasteners	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, Clad-GARD SA-S, Clad-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-134
41			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-134

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<a href="#">Table 4</a>						
Panel - UC-3 16 oz. copper 20 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Barrier Product <sup>5</sup>	Ply Sheet	Allowable Uplift Pressure
42	Plywood	UC-3 Super Clips at 12 inches o.c. attached with two #10-12 Pancake Head wood screws	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, Clad-GARD SA-S, Clad-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-77
43			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-77
44	Steel	UC-3 Super clip at 8 inches o.c. attached with two #12-13 Drill Point fasteners	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, Clad-GARD SA-S, Clad-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-84

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[Table 5](#)

Panel - UC-4 24 gauge steel 9 3/4 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Cover Board, Barrier Product <sup>5</sup>	Ply Sheet	Allowable Uplift Pressure
45	5/8 inch plywood	Two #10-12 Pancake Head wood screws with washers at 12 inches o.c.	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-53
46			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-53
47	Steel	Two #10-12 Pancake head wood screws with washers at 12 inches o.c. secured to the cover board	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	Min. 7/16 in. OSB or min 1-1/2 in. HailGard Composite Board installed with Firestone All-Purpose Fasteners and Insulation Fastening Plates at a rate of 16 per 4 ft x 8 ft board.	CLAD-GARD SA-FR Underlayment	-53

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<a href="#">Table 5</a> (continued)						
Panel - UC-4 24 gauge steel 9 ¾ inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Barrier Product	Ply Sheet	Allowable Uplift Pressure
48	Steel	Two #12-13 Drill Point Fasteners with washers at 12 inches o.c.	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-83
49						-83
50			Optional: HailGard	CLAD-GARD SA-FR Underlayment	-83	

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<a href="#">Table 5</a> (continued)						
Panel - UC-4 24 gauge steel 18 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Barrier Product <sup>5</sup>	Ply Sheet	Allowable Uplift Pressure
51	Plywood or OSB	Two #10-12 Pancake Head wood screws with washers at 18 inches o.c.	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-90
52			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-90
53		Two #10-12 Pancake Head wood screws with washers at 24 inches o.c.	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-75
54			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-75
55		Two #10-12 Pancake Head wood screws with washers at 30 inches o.c.	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-45
56			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-45

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<a href="#">Table 5</a> (continued)						
Panel - UC-4 24 gauge steel 18 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Barrier Product	Ply Sheet	Allowable Uplift Pressure
57	Steel	Two #12-13 Drill Point fasteners with washers at 18 inches o.c.	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-53
58			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-53

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<a href="#">Table 6</a>						
Panel - UC-4 .032 aluminum 9 3/4 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Barrier Product <sup>5</sup>	Ply Sheet	Allowable Uplift Pressure
59	Plywood	Two #10-12 Pancake Head wood screws with washers at 12 inches o.c.	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-109
60			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-109

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<a href="#">Table 6</a> (continued)						
Panel - UC-4 .032 aluminum 18 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Barrier Product <sup>5</sup>	Ply Sheet	Allowable Uplift Pressure
61	Plywood or OSB	Two #10-12 Pancake Head wood screws with washers at 18 inches o.c.	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-67.5
62			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-67.5
63		Two #10-12 Pancake Head wood screws with washers at 24 inches o.c.	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-45
64			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-45
65	Steel	Two #10-12 Pancake Head wood screws with washers at 18 inches o.c. secured to HailGard	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	1-½ in. HailGard Composite Board installed with HD HailGard Fasteners at a rate of 8 per 4 ft x 8 ft board.	CLAD-GARD SA-FR Underlayment	-60
66	Steel	Two #10-12 Pancake Head wood screws with washers at 18 inches o.c. secured to HailGard	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	1-½ in. HailGard Composite Board installed with HD HailGard Fasteners at a rate of 8 per 4 ft x 8 ft board.	CLAD-GARD SA-FR Underlayment	-60

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<a href="#"><u>Table 7</u></a>						
<b>Panel - UC-4 .040 aluminum 18 inches wide</b>						
<b>Class A Fire Rated – Unlimited Slope</b>						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Barrier Product	Ply Sheet	Allowable Uplift Pressure
67	Steel	Two #12-13 Drill Point fasteners with washers at 18 inches o.c.	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-53
68			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-53

<a href="#"><u>Table 8</u></a>						
<b>Panel - UC-4 16 oz. copper 14 inches wide</b>						
<b>Class A Fire Rated – Unlimited Slope</b>						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Barrier Product <sup>5</sup>	Ply Sheet	Allowable Uplift Pressure
69	3/4 inch plywood	Two #10-12 Pancake Head wood screws with washers at 9 inches o.c.	Optional: Any thickness ISO 95+ GL, RESISTA ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-53
70			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-53

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[Table 9](#)

Panel - UC-6 24 gauge steel 18 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Cover Board, Barrier Product	Ply Sheet	Allowable Uplift Pressure
71	Steel	UC-6 Super Clips at 12 inches o.c. attached with two #12-13 Drill Point Fasteners.	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-68
72			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-68
73		UC-6 Low-Float Clip or UC-6NT Clip 12 inches o.c. attached with two #10-12 pancake Head wood screws, secured to the cover board	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	Min. 7/16 in. OSB or min 1-½ in. HailGard Composite Board installed with HD HailGard Fasteners at a rate of 24 per 4 ft x 8 ft board.	CLAD-GARD SA-FR Underlayment	-53
74		UC-6 Super Clip at 12 inches o.c. attached with two #10-12 Pancake Head wood screws secured to the cover board	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	Min. 7/16 in. OSB or min 1-½ in. HailGard Composite Board installed with Firestone All-Purpose Fasteners and Insulation Fastening Plates at a rate of 16 per 4 ft x 8 ft board.	CLAD-GARD SA-FR Underlayment	-45

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<a href="#">Table 9</a> (continued)						
Panel - UC-6 24 gauge steel 18 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Barrier Product <sup>5</sup>	Ply Sheet	Allowable Uplift Pressure
75	Plywood or OSB	UC-6 Low-Float Clip at 24-inches o.c. attached with two #10-12 Pancake Head wood screws	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-60
76			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-60
77		UC-6 Low-Float Clip at 30 inches o.c. attached with two #10-12 Pancake Head wood screws	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-42
78			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-42

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<a href="#">Table 9</a> (continued)						
Panel - UC-6 24 gauge steel 18 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Barrier Product <sup>5</sup>	Ply Sheet	Allowable Uplift Pressure
79	5/8 inch plywood	UC-6 Super Clips at 36 inches o.c. attached with two #10-12 Pancake Head wood screws	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGAR HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-53
80			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-53
81	Steel	UC-6 Low Float Clip or UC-6 Super Clip at 30 inches o.c. with two #14-13 screws	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-53
82			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-53

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**Table 10**

**Panel - UC-6 .032 aluminum 18 inches wide**

**Class A Fire Rated – Unlimited Slope**

Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Cover Board, Barrier Product <sup>5</sup>	Ply Sheet	Allowable Uplift Pressure
83	Plywood or OSB	UC-6 Low Float Clip at 24 inches o.c. attached with two #10-12 Pancake Head wood screws	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-53
84			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-53
85		UC-6 Low Float Clip at 30 inches o.c. attached with two #10-12 Pancake Head wood screws	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-45
86			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-45
87	Steel	UC-6 Low-Float Clip at 18 inches o.c. attached with two #10-12 Pancake Head wood screws, secured to HailGard	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	1-½ in. HailGard Composite Board installed with HD HailGard Fasteners at a rate of 8 per 4 ft x 8 ft board	CLAD-GARD SA-FR Underlayment	-53
88		UC-6 Low-Float Clip at 24 inches o.c. attached with two #10-12 Pancake Head wood screws, secured to HailGard				-45

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<a href="#">Table 10</a> (continued)						
Panel - UC-6 .032 aluminum 18 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Barrier Product <sup>5</sup>	Ply Sheet	Allowable Uplift Pressure
89	5/8 inch plywood	UC-6 Low-Float Clip or UC-6 Super Clip at 30 inches o.c. attached with two #12-13 Drill Point fasteners	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-53
90						
91			Optional: HailGard	CLAD-GARD SA-FR Underlayment	-53	

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[Table 11](#)

Panel - UC-14 24 gauge steel 16 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Barrier Product <sup>5</sup>	Ply Sheet	Allowable Uplift Pressure
92	5/8 inch plywood	UC-14 Clip at 6 inches o.c. attached with two #10-12 Pancake Head wood screws	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-100
93			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-100
94		UC-14 Clip at 12 inches o.c. attached with two #10-12 Pancake Head wood screws	Optional: Any thickness ISO 95+ GL, RRESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-79
95			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-79

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<a href="#">Table 11</a> (continued)						
Panel - UC-14 24 gauge steel 18 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Cover Board, Barrier Product <sup>5</sup>	Ply Sheet	Allowable Uplift Pressure
96	Steel	UC-14 Clips at 36 inches o.c. attached with two #10-12 Pancake Head wood screws, secured to the cover board	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, or ISOGARD HD Composite	Min. 7/16 in. OSB or min 1-½ in. HailGard Composite Board installed with HD HailGard Fasteners at a rate of 24 per 4 ft x 8 ft board.	CLAD-GARD SA-FR Underlayment	-53
97		UC-14 Clips at 18 inches o.c. attached with two #10-12 Pancake Head wood screws, secured to HailGard	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, or ISOGARD HD Composite	1-½ in. HailGard Composite Board installed with HD HailGard Fasteners at a rate of 8 per 4 ft x 8 ft board.	CLAD-GARD SA-FR Underlayment	-53
98	Plywood or OSB	UC-14 Clip at 24 inches o.c. with two #10-12Pancake Head wood screws	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, or ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-68
99			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-68

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<a href="#">Table 11</a> (continued)						
Panel - UC-14 24 gauge steel 18 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Barrier Product	Ply Sheet	Allowable Uplift Pressure
100	Steel	UC-14 Clips at 18 inches o.c. attached with two #12-13 Drill Point fasteners.	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-53
101			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-53

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[Table 12](#)

Panel - UC-14 .032 aluminum 16 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Barrier Product <sup>5</sup>	Ply Sheet	Allowable Uplift Pressure
102	5/8 inch plywood	UC-14 Clip at 6 inches o.c. attached with two #10-12 Pancake Head wood screws	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-86
103			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-86
104		UC-14 Clip at 12 inches o.c. attached with two #10-12 Pancake Head wood screws	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	G-P Products DensDeck, 1/4 in. thick min, or UL Classified Gypsum board, 1/2 in. thick min, or minimum one layer CLAD-GARD SA-FR Underlayment	Optional: CLAD-GARD SA-N, CLAD-GARD SA-S, CLAD-GARD R, CLAD-GARD MA (not UL Classified) or CLAD-GARD SA-FR Underlayment	-74
105			Optional: HailGard		CLAD-GARD SA-FR Underlayment	-74

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<a href="#">Table 12</a> (continued)						
Panel - UC-14 .032 aluminum 16 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Cover Board	Ply Sheet	Allowable Uplift Pressure
106	Steel	UC-14 Clips at 18 inches o.c. fastened with two #10-12 Pancake Head wood screws, secured to the cover board	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	Min. 7/16 in. OSB or min 1-½ in. HailGard Composite Board installed with HD HailGard Fasteners at a rate of 24 per 4 ft x 8 ft board	CLAD-GARD SA-FR Underlayment	-53

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[Table 13](#)

Panel - UC-6NT 22 gauge steel 16 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Cover Board	Ply Sheet	Allowable Uplift Pressure
107	5/8 inch plywood	UC-6NT Clips 30 inches o.c. fastened with two #14-13 Pancake Head Drill point screws secured through the plywood deck	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	Optional: Any UL Classified building unit, preliminarily fastened or common fastened with panel clip fasteners.	Optional: CLAD-GARD SA-FR Underlayment	-53
108	Steel	UC-6NT Clips 30 inches o.c. fastened with two #14-13 Pancake Head Drill point screws secured through the steel deck				

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<a href="#">Table 13</a> (continued)						
<b>Panel - UC-6NT 24 gauge steel 18 inches wide</b>						
<b>Class A Fire Rated – Unlimited Slope</b>						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Cover Board	Ply Sheet	Allowable Uplift Pressure
109	7/16 inch OSB	UC-6NT Clips 30 inches o.c. fastened with two #10-12 Pancake Head wood screws secured through the OSB deck	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	Optional: Any UL Classified building unit, preliminarily fastened or common fastened with panel clip fasteners.	Optional: CLAD-GARD SA-FR Underlayment	-26

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<a href="#">Table 14</a>						
Panel - UC-6NT .032 aluminum 18 inches wide						
Class A Fire Rated – Unlimited Slope						
Assembly Number	Deck <sup>1</sup>	Attachment <sup>2,3,4</sup>	Insulation	Cover Board	Ply Sheet	Allowable Uplift Pressure
110	7/16 inch OSB	UC-6NT Clips 30 inches o.c. fastened with two #14-13 Pancake Head Drill point screws secured through the OSB deck	Optional: Any thickness ISO 95+ GL, RESISTA, ISOGARD HD, ISOGARD HD Composite	Optional: Any UL Classified building unit, preliminarily fastened or common fastened with panel clip fasteners.	Optional: CLAD-GARD SA-FR Underlayment	-38

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