

Roofing Systems, Uplift Resistance

COMPANY

Amrize Building Envelope LLC
 26 Century Blvd., Ste. 205
 Nashville, TN 37214-4601 United States

R14751

Unless otherwise indicated, minimum 3/4-in. thick wood sheathing boards may be substituted for 15/32-in. (minimum) thick plywood specified in any Certification.

The following table lists the Elevate trade name that is equivalent to the GenFlex and Exceptional Metals trade names. These alternate tradenames are acceptable in any applicable Classification below.

Trade Names		
Elevate	GenFlex	Exceptional Metals
"Elevate UNA-CLAD UC-3"	"GenFlex UC-3"	"DefendEX-SS1500"
"Elevate UC-3 Expansion Clip"	"GenFlex UC-3 Expansion Clip"	"DefendEX-SS1500 – Expansion Clip"
"Elevate UC-3 Super Clip"	"GenFlex UC-3 Super Clip"	"DefendEX S1500 Super Clip"
"Elevate UNA-CLAD UC-4"	"GenFlex UC-4"	"DefendEX-SL1500"
"Elevate UNA-CLAD UC-7"	-	"DefendEX CapSeam 1000"
"UC-7 Clip"	-	-
"Elevate UNA-CLAD UC-6"	"GenFlex UC-6"	"DefendEX-SS2000"
"Elevate UNA-CLAD UC-6 HD"	"GenFlex UC-6 HD"	"DefendEX-SS2000 HD"
"Elevate UC-6 Low Float Clip"	"GenFlex UC-6 Low Float Clip"	"DefendEX-SS2000-LowFloatClip"
"Elevate UNA-CLAD 5V Crimp"	"GenFlex UNA-CLAD 5V Crimp"	"DefendEX 5V Crimp"
"Elevate UNA-CLAD UC-14"	"GenFlex UC-14"	"DefendEX-SL1750"
"Elevate UC-14 Clip"	"GenFlex UC-14 Clip"	"DefendEX SL1750 Clip"
"Elevate UC Bearing Plate"	"GenFlex Bearing Plate"	"DefendEX-Bearing Plate"

PANEL SYSTEMS

1. **Uplift Resistance:** — 165 psf.

Supports (Purlins): — No. 16 MSG steel (50 ksi yield strength) spaced max 3 ft, 0 in. OC.

Fasteners (Screws): — Used to attach panel clips to purlins, No. 1/4-14 by 7/8 in. long, self-drilling, self-taping, hex-head steel. Two screws used per clip.

Roof Deck Fasteners (Panel Clips): — “Elevate UC-6 Low Float Clip”. Two part assembly. Located over panel sides, fastened to supports using two fasteners per clip.

Metal Roof Deck Panels: — “Elevate UNA-CLAD UC-6” or “Elevate UNA-CLAD UC-6 HD” panel. 0.040 in. min thickness aluminum. Panel width 16 in., height of female rib 2 in., male rib 1-3/4 in. Panels continuous over two or more spans. Panels seamed 180° at ribs with an electric seamer.

2. **Uplift Resistance:** — 142 psf.

Deck: — Steel, min No. 22 MSG.

Foamed Plastic (Rigid Insulation): — Min thickness 1 in., max thickness 4 in. Joints staggered between layers. Mechanically fastened to the steel deck per manufacturers recommendations.

Underlayment (Optional): — One layer Clad-Gard SA-FR fastened to the insulation per manufacturers' recommendations.

Underlayment (Optional): — One layer Type 30 organic felt with 2 in. side lap. Mechanically fastened to the steel deck per manufacturers recommendations.

Underlayment (Optional): — One layer UL Classified Elk "VersaShield" with 2 in. side lap, loose laid. Fasteners (Screws): Fasteners used to attach panel clips to steel deck to be No. 12 pancake wafer head steel screws. Length to penetrate steel deck a minimum of 3/4 in. Two screws used per clip inserted into clip guide holes.

Bearing Plate: — Plates used with panel screw fasteners under panel to be 4 by 4 in. min No. 26 gauge stainless steel. As an alternate, 1/2 in. thick (15/32 in. actual) plywood, APA rated sheathing, square edged may be used.

Roof Deck Fasteners (Panel Clips): — Two part assembly, base 5 in. long, 1 in. wide, 0.42 in. high. Fabricated from No. 22 MSG min thick coated steel. Upper tab 3 in. long, 0.42 in. wide, 1.786 in. high. Fabricated from No. 24 MSG min thick coated steel. Spaced a maximum 12 in. OC. Identified as “Elevate UC-3 Expansion Clip”.

Roof Panels: — Width 16 in. max with 1-1/2 in. high legs. No. 24 MSG min thick coated steel. Panels continuous over three or more clips with no end laps. Panel ribs seamed with an electric seaming tool with seaming operation to include upper tabs of panel clips. Identified as “Elevate UNA-CLAD UC-3”.

3. **Uplift Resistance:** — 247 psf.

Deck: — Plywood: Min 19/32 in. thick CDX.

Underlayment (Optional): — One layer Type 30 organic felt with 2 in. side lap. Fastened to the plywood deck per manufacturers recommendations.

Underlayment (Optional): — One layer UL Classified Elk "Versashield" with 2 in. side lap, loose laid.

Underlayment (Optional): — One layer Clad-Gard SA-FR fastened to the insulation per manufacturers' recommendations.

Vapor Barrier: — One layer Colbond "Enkamat 7010", loose laid.

Fasteners (Screws): — Fasteners used to attach panel clips to plywood deck to be No. 10 by 1-1/2 in. long pancake head stainless steel screws. Two screws used per clip inserted into clip guide holes.

Roof Deck Fasteners (Panel Clips): — Two part assembly, base 5 in. long, 1 in. wide, 0.42 in. high. Fabricated from min 0.0225 in. thick 304 stainless steel. Upper tab 3 in. long, 0.42 in., wide, 1.786 in. high. Fabricated from min 0.0172 in. thick 304 stainless steel. Spaced a maximum of 12 in. OC. Identified as "Elevate UC-3 Expansion Clip".

Roof Panels: — Width 16 in. max with 1-1/2 in. high legs. Min 0.027 in. thick RHEINZINK. This is a zinc material. Panel continuous over three or more clips with no end laps. Panel ribs double seamed with an electric seaming tool with seaming operation to include upper tabs of panel clips. Identified as "Elevate UNA-CLAD UC-3".

4. Uplift Resistance: — 187 psf.

Deck: — Steel, min No. 22 MSG.

Foamed Plastic (Rigid Insulation): — Min thickness 1 in., max thickness 4 in. Joints staggered between layers. Mechanically fastened to the steel deck per manufacturers recommendations.

Underlayment (Optional): — One layer Type 30 organic felt with 2 in. side lap. Mechanically fastened to the steel deck per manufacturers recommendations.

Underlayment (Optional): — One layer UL Classified Elk "VersaShield" with 2 in. side lap, loose laid.

Underlayment (Optional): — One layer Clad-Gard SA-FR fastened to the insulation per manufacturers' recommendations.

Vapor Barrier: — One layer Colbond "Enkamat 7010", loose laid.

Fasteners (Screws): — Fasteners used to attach panel clips to steel deck to be No. 12 pancake head steel screws. Length to penetrate steel deck a minimum of 3/4 in. Two screws used per clip inserted into clip guide holes.

Bearing Plate: — Plates used with panel screw fasteners under panel to be 4 by 4 in. min No. 26 gauge stainless steel. As an alternate, 1/2 in. thick (15/32 in. actual) plywood, APA rated sheathing, square edged may be used.

Roof Deck Fasteners (Panel Clips): — Two part assembly, base 5 in. long, 1 in. wide, 0.42 in. high. Fabricated from min 0.0225 in. thick 304 stainless steel. Upper tab 3 in. long, 0.42 in. wide, 1.786 in. high. Fabricated from min 0.0172 in. thick 304 stainless steel. Spaced a maximum of 12 in. OC. Identified as "Elevate UC-3 Expansion Clip".

Roof Panels: — Width 16 in. max with 1 1/2 in. high legs. 0.027 in. min thick RHEINZINK. This is a zinc material. Panel continuous over three or more clips with no end laps. Panel ribs double seamed with an electric seaming tool with seaming operation to include upper tabs of panel clips. Identified as "Elevate UNA-CLAD UC-3".

5. Uplift Resistance: — 155 psf.

Deck: — Plywood: Min 5/8 in. thick CDX.

Underlayment (Optional): — One layer Type 30 organic felt with 2 in. side lap. Fastened to the plywood deck per manufacturers recommendations.

Underlayment (Optional): — One layer UL Classified Elk "Versashield" with 2 in. side lap, loose laid.

Underlayment: (Optional): — One layer Clad-Gard SA-FR fastened to the insulation per manufacturers recommendations.

Fasteners (Screws): — No. 9 by 1-1/2 in. long hex head steel screws with a bonded washer. Fasteners spaced 24 in. O.C. and located on the top part of the panel v-crimp.

Roof Panels: — "Elevate UNA-CLAD 5V Crimp" panel. 0.172 in. min thickness steel. Panel width 22-1/2 in.

6. Uplift Resistance: — 247 psf.

Deck: — Minimum 19/32 in. APA rated plywood sheathing Grade B-C fastened to supports with 8d by 2-1/2 in. long ring-shank nails spaced 6 in. OC.

Panel Fasteners: — Fasteners used to attach the panels to the plywood to be No. 10 by 1 in. long coarse thread steel screws. Two screws spaced 12 in. O.C.

Underlayment (Optional): — One layer Clad-Gard SA-FR fastened to the insulation per manufacturers' recommendations.

Metal Roof Deck Panels: — Panels designated "Elevate UNA-CLAD UC-4" or , min 26 MSG steel or min 0.032 in. thick aluminum; width 9-3/4 in. max, 1-3/8 in. high at the ribs. A bead of sealant may be used at panel ribs.

7. Uplift Resistance: — 217 psf.

Deck: — Minimum 19/32 in. APA rated plywood sheathing Grade B-C fastened to supports with No. 8 by 2-1/2 in. long coarse thread steel screws spaced 12 in. OC in the field and 6 in. OC along the perimeter.

Underlayment (Optional): — One layer Clad-Gard SA-FR fastened to the plywood per manufacturers' recommendations.

Panel Fasteners: — Fasteners used to attach the panels to the plywood to be No. 10 by 1 in. long coarse thread steel screws. Two screws spaced 12 in. O.C.

Metal Roof Deck Panels: — Panels designated "Elevate UNA-CLAD UC-4", min 26 MSG steel or min 0.032 in. thick aluminum; width 9-3/4 in. max, 1-3/8 in. high at the ribs. A bead of sealant may be used at panel ribs.

8. Uplift Resistance: — 120 psf.

Deck: — Minimum 5/8 in. APA rated plywood sheathing Grade B-C fastened to supports with No. 8d by 2-1/2 in. long steel ring shank nails spaced 6 in. OC in the field and 6 in. OC along the perimeter.

Underlayment (Optional): — One layer Clad-Gard SA-FR fastened to the plywood per manufacturers' recommendations.

Roof Deck Fasteners (Panel Clips): — "UC-7 Clip". One piece assembly spaced 12 in. OC and fastened to deck using two fasteners per clip.

Fasteners (Screws): — Used to attach panel clips to deck, No. 12 by 1 in. long steel screws. Two screws used per clip.

Metal Roof Deck Panels: — "Elevate UNA-CLAD UC-7" panel. Min 24 MSG thickness steel. Panel width 12 in., max 1 in. high at the ribs. A bead of sealant may be used at panel ribs.

9. Uplift Resistance: — 105 psf.

Deck: — Steel, min No. 22 MSG.

Foamed Plastic Rigid Insulation (Optional): — 4 in. maximum thickness. Loose layed, joints staggered between layers.

Underlayment: (Optional): — One layer Clad-Gard SA-FR fastened to the insulation per manufacturers' recommendations.

Fasteners (Clips/Screws): — Fasteners used to attach the metal roof deck panels to the steel deck were galvanized steel "Elevate UC-14 Clip" with 4" by 4" bearing plates identified as "Elevate UC Bearing Plate"

spaced 18 in. OC. Fasteners used to attach the clips to the steel deck to be No. 12 steel screws, Length to penetrate steel deck a minimum of 1/2 in. Two screws per clip. Bearing plates are optional if foamed plastic insulation is not used.

Metal Roof Deck Panels: — “Elevate UNA-CLAD UC-14” No. 24 MSG min thick coated steel panels or 0.032 in. min thick aluminum panels, 18 in. wide max. 1-3/4 in. high at female side rib. A bead of sealant may be used at panel side joints.

10. **Uplift Resistance:** — 157 psf.

Deck: — Deck to be min 5/8 in. nom (19/32 in. actual) thickness plywood; Exposure 1, Grade B-C, APA rated sheathing, conforming to requirements of DOC PS-1, with butt joints to be located over wood supports (joist). Fastened to supports with No. 8d by 2-1/2 in. long steel ring shank nails spaced 6 in. OC at butted ends and 6 in. OC in the field.

Underlayment (Optional): — One layer Clad-Gard SA-FR fastened to the plywood per manufacturers’ recommendations.

Underlayment (Optional): — One layer Type 15 or 30 organic felt with 2 in. side lap. Fastened to the plywood deck per manufacturers recommendations.

Roof Deck Fasteners (Panel Clips): — Two part assembly, base 5 in. long, 1 in. wide, 0.42 in. high. Fabricated from min 0.0225 in. thick 304 stainless steel. Upper tab 3 in. long, 0.42 in. wide, 1.786 in. high. Fabricated from min 0.0172 in. thick 304 stainless steel. Spaced a maximum of 18 in. OC. Identified as “Elevate UC-3 Expansion Clip”.

Fasteners (Screws): — Used to attach panel clips to deck, No. 10 by 1 in. long Pancake Type A steel screws. Two screws used per clip.

Metal Roof Deck Panels: — Identified as “Elevate UNA-CLAD UC-3”. Width 16 in. max with 1-1/2 in. high legs. No. 24 MSG min thick coated steel. Panels continuous with no end laps. Panel ribs single seamed with an electric seaming tool with seaming operation to include upper tabs of panel clips.

11. **Uplift Resistance:** — 202 psf.

Deck: — Deck to be min 5/8 in. nom (19/32 in. actual) thickness plywood; Exposure 1, Grade B-C, APA rated sheathing, conforming to requirements of DOC PS-1, with butt joints to be located over wood supports (joist). Fastened to supports with No. 8d by 2-1/2 in. long steel ring shank nails spaced 6 in. OC at butted ends and 6 in. OC in the field.

Underlayment (Optional): — One layer Clad-Gard SA-FR fastened to the plywood per manufacturers’ recommendations.

Underlayment (Optional): — One layer Type 15 or 30 organic felt with 2 in. side lap. Fastened to the plywood deck per manufacturers recommendations.

Roof Deck Fasteners (Panel Clips): — Two part assembly, base 5 in. long, 1 in. wide, 0.42 in. high. Fabricated from min 0.0225 in. thick 304 stainless steel. Upper tab 3 in. long, 0.42 in. wide, 1.786 in. high. Fabricated from min 0.0172 in. thick 304 stainless steel. Spaced a maximum of 8 in. OC. Identified as “Elevate UC-3 Expansion Clip”.

Fasteners (Screws): — Used to attach panel clips to deck, No. 10 by 1 in. long Pancake Type A steel screws. Two screws used per clip.

Metal Roof Deck Panels: — Identified as “Elevate UNA-CLAD UC-3”. Width 16 in. max with 1-1/2 in. high legs. No. 24 MSG min thick coated steel. Panels continuous with no end laps. Panel ribs single seamed with an electric seaming tool with seaming operation to include upper tabs of panel clips.

12. **Uplift Resistance:** — 172 psf.

Deck: — Steel, min 20 MSG.

Cover Boards (Optional): — Min 1/2 in. thick gypsum board, 1/4 in. min thickness G-P Gypsum Dens-Deck, 1/4 in. min thick USG SECUROCK Glass Mat Board or SECUROCK Roof Board, loose-laid.

Insulation (Optional): — Max. 10 in. Elevate ISO 95+ GL, loose-laid.

Cover Boards: — Min. nominal 3/4 in. thick (23/32 in. actual); fastened to steel deck using Elevate Heavy Duty (HD) HailGard Fastener, No. 16. Spacing for the fasteners to be a min. 16 fasteners per 4 ft.x 8 ft. sheet of plywood (equally spaced) and the fastener length should be long enough to penetrate 1/2 in. beyond the bottom of the linear panel.

Underlayment (Optional): — One layer Clad-Gard SA-FR fastened to the insulation or coverboard per manufacturers' recommendations.

Roof Deck Fasteners (Panel Clips): — "Elevate UC-3 Super Clip" fastened to the coverboard with Elevate UNA-CLAD #10 Fasteners or BarrierEX #100 Fasteners, 1.5 in. long screws (2 PER CLIP) clips spaced 24 o.c.

Metal Roof Panels: — "Elevate UNA-CLAD UC-3", maximum 20 in. wide with 1-1/2 in. high ribs, No. 24 MSG min thick coated steel. Panel ribs double seamed with an electric or manual seaming tool with seaming operation to include upper tabs of panel clips.

13. Uplift Resistance: — 150 psf.

Deck: — Minimum 15/32 inch APA rated plywood sheathing Grade B-C, or minimum 7/16 inch APA rated OSB fastened to supports with 8d by 2-1/2 in. long ring-shank nails spaced 6 in. on center.

Insulation (Optional): — Maximum 10 inch Elevate ISO 95+ GL, RESISTA "ISOGARD HD", ISOGARD HD Composite or "HailGard" loose-laid.

Underlayment (Optional): — One layer Clad-Gard SA-FR fastened to the insulation or plywood per manufacturers' recommendations.

Panel Fasteners: — Fasteners used to attach the panels to the plywood to be No. 10 coarse thread steel screws. Two screws spaced 24 inches on center.

Roof Deck Fasteners (Panel Clips): — "Elevate UC-3 Expansion Clip" fastened to the decked sheathing with Elevate UNA-CLAD #10 Fasteners or BarrierEX #100 Fasteners, (2 PER CLIP) clips spaced 24 inches on center.

Metal Roof Deck Panels: — Panels designated "Elevate UNA-CLAD UC-3", minimum 24 MSG steel, maximum 16 inches wide, 1-1/2 inches high at the ribs. A bead of sealant may be used at panel ribs.

14. Uplift Resistance: — 150 psf.

Deck: — Minimum 15/32 inch APA rated plywood sheathing Grade B-C, or minimum 7/16 inch APA rated OSB fastened to supports with 8d by 2-1/2 in. long ring-shank nails spaced 6 inches on center.

Insulation (Optional): — Maximum 10 inch Elevate ISO 95+ GL, RESISTA "ISOGARD HD", ISOGARD HD Composite or "HailGard" loose-laid.

Underlayment (Optional): — One layer Clad-Gard SA-FR fastened to the insulation or plywood per manufacturers' recommendations.

Panel Fasteners: — Fasteners used to attach the panels to the plywood to be No. 10 coarse thread steel screws. Two screws spaced 18 in. on center.

Roof Deck Fasteners (Panel Clips): — "Elevate UC-3 Expansion Clip" fastened to the decked sheathing with Elevate UNA-CLAD #10 Fasteners or BarrierEX #100 Fasteners, (2 PER CLIP) clips spaced 18 inches on center.

Metal Roof Deck Panels: — Panels designated “Elevate UNA-CLAD UC-3”, minimum 0.032 in. thick aluminum maximum 16 inches wide, 1-1/2 inch high at the ribs. A bead of sealant may be used at panel ribs.

15. **Uplift Resistance:** — 135 psf.

Deck: — Minimum 15/32 inch APA rated plywood sheathing Grade B-C, or minimum 7/16 inch APA rated OSB fastened to supports with 8d by 2-1/2 in. long ring-shank nails spaced 6 inches on center.

Insulation (Optional): — Maximum 10 inch Elevate ISO 95+ GL, RESISTA “ISOGARD HD”, ISOGARD HD Composite or “HailGard” loose-laid.

Underlayment (Optional): — One layer Clad-Gard SA-FR fastened to the insulation or plywood per manufacturers’ recommendations.

Panel Fasteners: — Fasteners used to attach the panels to the plywood to be No. 10 coarse thread steel screws. Two screws spaced 30 in. on center.

Roof Deck Fasteners (Panel Clips): — “Elevate UC-3 Super Clip” fastened to the decked sheathing with Elevate UNA-CLAD #10 Fasteners or BarrierEX #100 Fasteners, (2 PER CLIP) clips spaced 30 inches on center.

Metal Roof Deck Panels: — Panels designated “Elevate UNA-CLAD UC-3”, minimum 24 MSG steel, maximum 16 inches wide, 1-1/2 inches high at the ribs. A bead of sealant may be used at panel ribs.

16. **Uplift Resistance:** — 135 psf.

Deck: — Steel, min 22 MSG.

Insulation (Optional): — Maximum 10 inch Elevate ISO 95+ GL, RESISTA “ISOGARD HD”, ISOGARD HD Composite or “HailGard” loose-laid.

Cover Board: — Minimum 1-1/2 inch thick “HailGard Composite Board” installed with 12 “HD HailGard Fasteners” per 4 ft. X 8 ft. board.

Underlayment (Optional): — One layer Clad-Gard SA-FR fastened to the insulation or plywood per manufacturers’ recommendations.

Panel Fasteners: — Fasteners used to attach the panels to the plywood to be No. 10 coarse thread steel screws. Two screws spaced 18 in. on center.

Roof Deck Fasteners (Panel Clips): — “Elevate UC-3 Expansion Clip” fastened to the decked sheathing with Elevate UNA-CLAD #10 Fasteners or BarrierEX #100 Fasteners, 1-1/2 inch long (2 PER CLIP) clips spaced 18 inches on center

Metal Roof Deck Panels: — Panels designated “Elevate UNA-CLAD UC-3”, minimum 0.032 in. thick aluminum, maximum 16 inches wide, 1-1/2 inch high at the ribs. A bead of sealant may be used at panel ribs.

17. **Uplift Resistance:** — 180 psf.

Deck: — Minimum 15/32 inch APA rated plywood sheathing Grade B-C, or minimum 7/16 inch APA rated OSB fastened to supports with 8d by 2-1/2 in. long ring-shank nails spaced 6 inches on center.

Insulation (Optional): — Maximum 10 inch Elevate ISO 95+ GL, RESISTA “ISOGARD HD”, ISOGARD HD Composite or “HailGard” loose-laid.

Underlayment (Optional): — One layer Clad-Gard SA-FR fastened to the insulation or plywood per manufacturers’ recommendations.

Panel Fasteners: — Fasteners used to attach the panels to the plywood to be No. 10 coarse thread steel screws. Two screws spaced 18 inches on center.

Metal Roof Deck Panels: — Panels designated “Elevate UNA-CLAD UC-4”, minimum 24 MSG steel maximum 18 inches wide, 1-1/2 inches high at the ribs. A bead of sealant may be used at panel ribs.

18. **Uplift Resistance:** — 150 psf.

Deck: — Minimum 15/32 inch APA rated plywood sheathing Grade B-C, or minimum 7/16 inch APA rated OSB fastened to supports with 8d by 2-1/2 in. long ring-shank nails spaced 6 inches on center.

Insulation (Optional): — Maximum 10 inch Elevate ISO 95+ GL, RESISTA “ISOGARD HD”, ISOGARD HD Composite or “HailGard” loose-laid.

Underlayment (Optional): — One layer Clad-Gard SA-FR fastened to the insulation or plywood per manufacturers’ recommendations.

Panel Fasteners: — Fasteners used to attach the panels to the plywood to be No. 10 coarse thread steel screws. Two screws spaced 24 inches on center.

Metal Roof Deck Panels: — Panels designated “Elevate UNA-CLAD UC-4”, minimum 24 MSG steel maximum 18 inches wide, 1-1/2 inches high at the ribs. A bead of sealant may be used at panel ribs.

19. **Uplift Resistance:** — 105 psf.

Deck: — Minimum 15/32 inch APA rated plywood sheathing Grade B-C, or minimum 7/16 inch APA rated OSB fastened to supports with 8d by 2-1/2 in. long ring-shank nails spaced 6 inches on center.

Insulation (Optional): — Maximum 10 inch Elevate ISO 95+ GL, RESISTA “ISOGARD HD”, ISOGARD HD Composite or “HailGard” loose-laid.

Underlayment (Optional): — One layer Clad-Gard SA-FR fastened to the insulation or plywood per manufacturers’ recommendations.

Panel Fasteners: — Fasteners used to attach the panels to the plywood to be No. 10 coarse thread steel screws. Two screws spaced 12 in. on center.

Metal Roof Deck Panels: — Panels designated “Elevate UNA-CLAD UC-4”, minimum 0.032 in. thick aluminum maximum 18 inches wide, 1-1/2 inch high at the ribs. A bead of sealant may be used at panel ribs.

20. **Uplift Resistance:** — 135 psf.

Deck: — Minimum 15/32 inch APA rated plywood sheathing Grade B-C, or minimum 7/16 inch APA rated OSB fastened to supports with 8d by 2-1/2 in. long ring-shank nails spaced 6 inches on center.

Insulation (Optional): — Maximum 10 inch Elevate ISO 95+ GL, RESISTA “ISOGARD HD”, ISOGARD HD Composite or “HailGard” loose-laid.

Underlayment (Optional): — One layer Clad-Gard SA-FR fastened to the insulation or plywood per manufacturers’ recommendations.

Panel Fasteners: — Fasteners used to attach the panels to the plywood to be No. 10 coarse thread steel screws. Two screws spaced 18 inches on center.

Metal Roof Deck Panels: — Panels designated “Elevate UNA-CLAD UC-4”, minimum 0.032 in. thick aluminum maximum 18 inches wide, 1-1/2 inch high at the ribs. A bead of sealant may be used at panel ribs.

21. **Uplift Resistance:** — 120 psf.

Deck: — Steel, min 22 MSG.

Insulation (Optional): — Maximum 10 inch Elevate ISO 95+ GL, RESISTA "ISOGARD HD", ISOGARD HD Composite or "HailGard" loose-laid.

Cover Board: — Minimum 1-1/2 inch thick "HailGard Composite Board" installed with 8 "HD HailGard Fasteners" per 4 ft. X 8 ft. board.

Underlayment (Optional): — One layer Clad-Gard SA-FR fastened to the coverboard per manufacturers' recommendations.

Panel Fasteners: — Fasteners used to attach the panels to the plywood to be No. 10 by 1-1/2 inch long coarse thread steel screws. Two screws spaced 18 inches on center.

Metal Roof Deck Panels: — Panels designated "Elevate UNA-CLAD UC-4", minimum 0.032 in. thick aluminum maximum 18 inches wide, 1-1/2 inch high at the ribs. A bead of sealant may be used at panel ribs.

22. **Uplift Resistance:** — 120 psf.

Deck: — Minimum 15/32 inch APA rated plywood sheathing Grade B-C, or minimum 7/16 inch APA rated OSB fastened to supports with 8d by 2-1/2 in. long ring-shank nails spaced 6 inches on center.

Insulation (Optional): — Maximum 10 inch Elevate ISO 95+ GL, RESISTA "ISOGARD HD", ISOGARD HD Composite or "HailGard" loose-laid.

Underlayment (Optional): — One layer Clad-Gard SA-FR fastened to the insulation or plywood per manufacturers' recommendations.

Panel Fasteners: — Fasteners used to attach the panels to the plywood to be No. 10 coarse thread steel screws. Two screws spaced 18 inches on center.

Metal Roof Deck Panels: — Panels designated "Elevate UNA-CLAD UC-4", minimum 24 MSG steel maximum 18 inches wide, 1-1/2 inches high at the ribs. A bead of sealant may be used at panel ribs.

23. **Uplift Resistance:** — 105 psf.

Deck: — Steel, min 22 MSG.

Insulation (Optional): — Maximum 10 inch Elevate ISO 95+ GL, RESISTA "ISOGARD HD", ISOGARD HD Composite or "HailGard" loose-laid.

Cover Board: — Minimum 1 1/2 inch thick "HailGard Composite Board" installed with 8 "HD HailGard Fasteners" per 4 ft. X 8 ft. board.

Underlayment (Optional): — One layer Clad-Gard SA-FR fastened to the insulation or coverboard per manufacturers' recommendations.

Panel Fasteners: — Fasteners used to attach the panels to the plywood to be No. 10 coarse thread steel screws. Two screws spaced 18 in. on center.

Roof Deck Fasteners (Panel Clips): — "Elevate UC-6 Low Float Clip" fastened to the decked sheathing with Elevate UNA-CLAD #10 Fasteners or BarrierEX #100 Fasteners, 1-1/2 inch long (2 PER CLIP) clips spaced 30 inches on center.

Metal Roof Deck Panels: — Panels designated "Elevate UNA-CLAD UC-6", minimum 0.032 in. thick aluminum maximum 18 inches wide, 1-1/2 inch high at the ribs. A bead of sealant may be used at panel ribs.

24. Uplift Resistance: — 135 psf.

Deck: — Minimum 15/32 inch APA rated plywood sheathing Grade B-C, or minimum 7/16 inch APA rated OSB fastened to supports with 8d by 2-1/2 in. long ring-shank nails spaced 6 inches on center.

Insulation (Optional): — Maximum 10 inch Elevate ISO 95+ GL, RESISTA "ISOGARD HD", ISOGARD HD Composite or "HailGard" loose-laid.

Underlayment (Optional): — One layer Clad-Gard SA-FR fastened to the insulation or plywood per manufacturers' recommendations.

Panel Fasteners: — Fasteners used to attach the panels to the plywood to be No. 10 coarse thread steel screws. Two screws spaced 24 inches on center.

Roof Deck Fasteners (Panel Clips): — "Elevate UC-14 Clip" fastened to the decked sheathing with Elevate UNA-CLAD #10 Fasteners or BarrierEX #100 Fasteners, 1-1/2 inch long (2 PER CLIP) clips spaced 24 inches on center.

Metal Roof Deck Panels: — Panels designated "Elevate UNA-CLAD UC-14", minimum 24 MSG steel maximum 18 inches wide, 1-1/2 inches high at the ribs. A bead of sealant may be used at panel ribs.

Last Updated on 2026-05-20

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2026 UL LLC."