



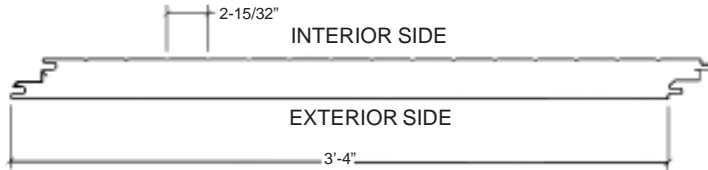
Insulated Panels

Architectural Wall Panels

FL40 FL40 panels are produced with a smooth micro-embossed, flat 22 gauge factory coated steel exterior face for a hi-tech architectural appearance. They can be installed either vertically or horizontally.

The horizontal wall assembly incorporates a clean, simple end joint design that utilizes self-aligning pre-painted aluminum extrusion.

Standard thickness (inches): 2,2.5,3



General Wall Specifications

Standard facings: 22 gauge G-90 galvanized steel.

Standard interior facing: 26 gauge G-90 galvanized steel, Imperial White polyester.

Other available interior steel facings: 24, 22

Module lengths: 8' to 40'

Joinery: Offset double interlocking tongue and groove with hidden fastening.

R-Values: 2"=16, 2.5"=20, 3"=24

Core: Continuously foamed-in-place urethane with nominal 2.2 to 2.5 pcf density.

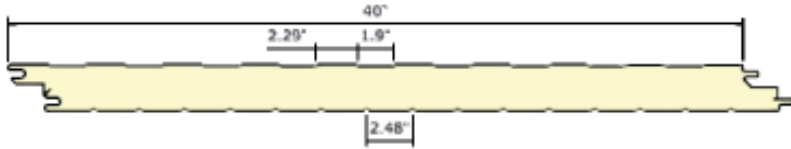


Profiled Wall Panels

SM40

The SM40 standard mesa profile panel is perfect for exterior/interior wall and ceiling applications on industrial and cold storage use buildings. The lower profile linear exterior surface simplifies flashing connections designed to inhibit moisture vapor transmission compared with other deep fluted products offered on the market. This product is also available with the mesa profile on both sides and is referred to as double mesa (DM40)

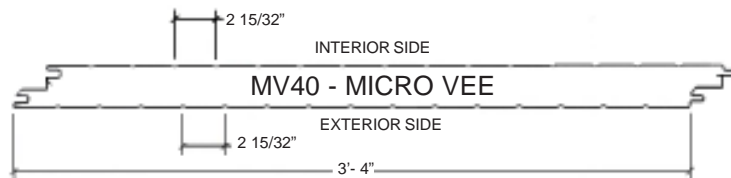
Standard thicknesses (inches): 2, 2.5, 3, 4, 5, 6



MV40

The MV40 micro vee panel offers an extremely economical exterior or interior wall where a clean, flat profile appearance is desired. The nominal .2 millimeter deep stiffening beads help maintain an acceptable flatness tolerance in the light 26 gauge facings. This product is suitable for exterior applications up to 3" and up to 6" for interior use.

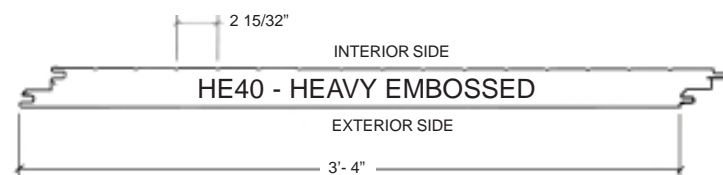
Standard thicknesses (inches): 2, 2.5, 3, 4, 5, 6



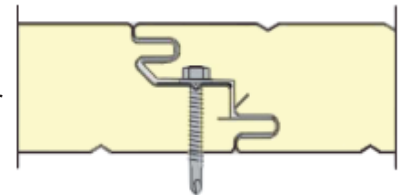
HE40 and HE40-A

The HE40 heavy embossed panel is installed on exterior walls with a factory applied paint finish or may be field sprayed with an acceptable textured elastomeric coating. The HE40-A **Adobe Texture™** panel provides a low gloss multi-textured profile and finish system that simulates a troweled stucco style appearance without the problems common to field assembled stud and stucco construction or factory sprayed composite panels.

Standard thicknesses (inches): 2, 2.5, 3, 4



Typical Wall Joint with Clip and Fastener



General Wall Specifications:

- Standard facings: 26 gauge G-90 galvanized steel.
- Standard interior facing: 26 gauge G-90 galvanized steel, Imperial White polyester.
- Other available steel facings: 24, 22 (HE available in 26ga exterior only).
- Module lengths: 8' to 67'
- Joinery: Offset double interlocking tongue and groove with hidden fastening.
- R-Values: 2"=16, 2.5"=20, 3"=24, 4"=32, 5"=41, 6"=50
- Core: Continuously foamed-in-place urethane with nominal 2.2 to 2.5 pcf density.

Roof Panels

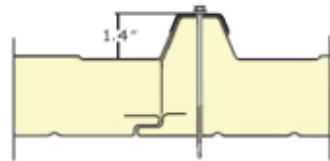
HR3 The HR3 (three rib) high rib panel is an economical solution to field assembled metal roofing. This product installs quickly and easily by through fastening at standing ribs into supporting structural members.

**and
HR5**

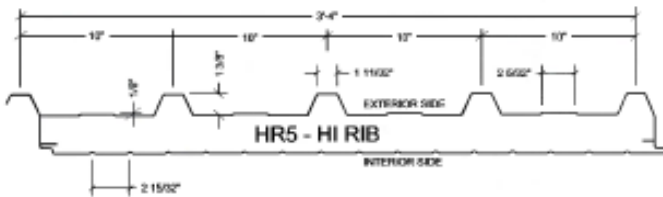
The HR5 (5-rib) high rib panel was developed for long span and/or severe loading conditions. Fastening is identical to the HR3 panel.

Standard thicknesses (inches): 2.5, 3, 4, 5, 6

HR Roof Joint



HR3



HR5

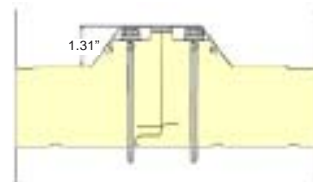
**CR2
and
CR3**

The CR2 (two rib) cap rib panel is designed specifically for low slope (minimum 1/4:12) hidden fastened roof applications in many cases alleviating the need for parapet wall cantilevers or perimeter fascia assemblies.

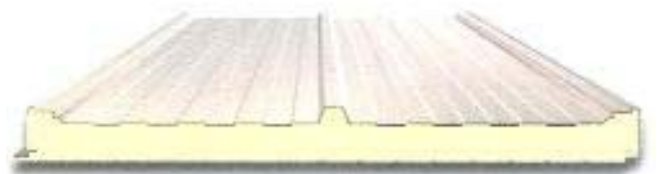
The CR3 (three rib) cap rib panel offers increased spans when needed and is otherwise identical to the CR2 panel.

Standard thicknesses (inches): 2.5, 3, 4, 5, 6

CR Roof Joint



CR2



CR3

General Wall Specifications:

Standard exterior facing: 26 gauge G-90 galvanized steel.

Standard interior facing: 26 gauge G-90 galvanized steel, Imperial White polyester.

Other available steel facings: 24, 22

Module lengths: 8' to 60'

Joinery: Overlapping (HR series), Preformed snap-on cap (CR series)

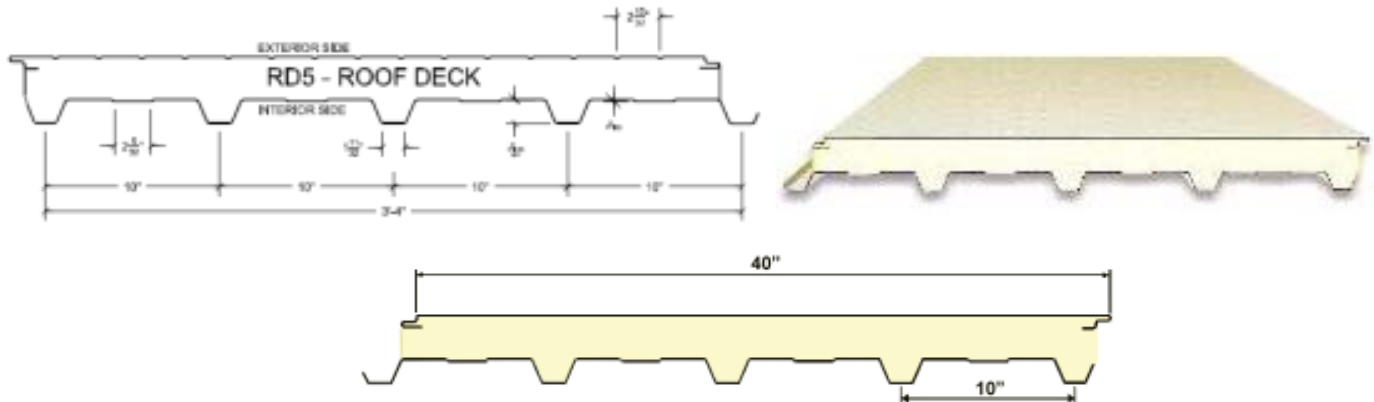
R-Values: 2.5"=21, 3"=24, 4"=33, 5"=42, 6"=50

Core: Continuously foamed-in-place urethane with nominal 2.2 to 2.5 pcf density.

Roof Deck

RD5 The RD5 roof deck panel provides the steel deck, insulation and substrate for white single ply membrane or non-structural standing seam roof coverings in a single composite as opposed to rigorous and expensive field assembled roof deck systems. Advantages include longer spans between supports, a working platform during installation, superior deflection resistance, a white reflective interior and fewer trades to install. The topside substrate can be either primed steel sheet or an approved flexible facer depending on the roof covering attachment requirements.

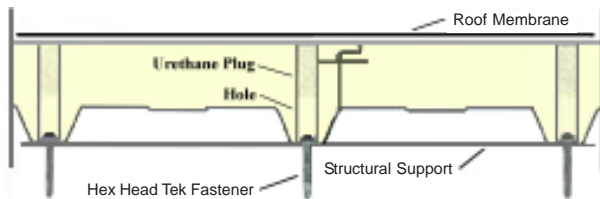
Standard thicknesses (inches): 2.5, 3, 4, 5, 6



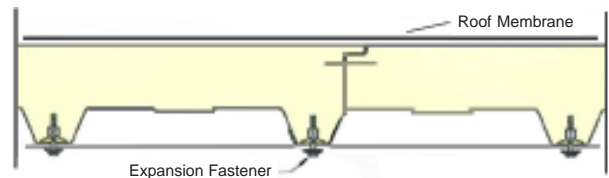
General Roof Deck Specifications:

- Standard exterior facing: 28 gauge G-90 galvanized steel.
- Standard interior facing: 26 gauge G-90 galvanized steel, Imperial White polyester.
- Other available steel facings: 24, 22
- Module lengths: 8' to 60'
- Joinery: Overlapping
- R-Values: 2.5"=20, 3"=24, 4"=32, 5"=41, 6"=50
- Core: Continuously foamed-in-place urethane with nominal 2.2 to 2.5 pcf density.

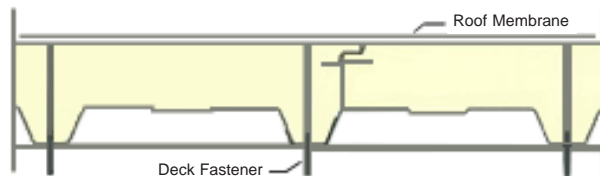
Fastening at roof base from topside



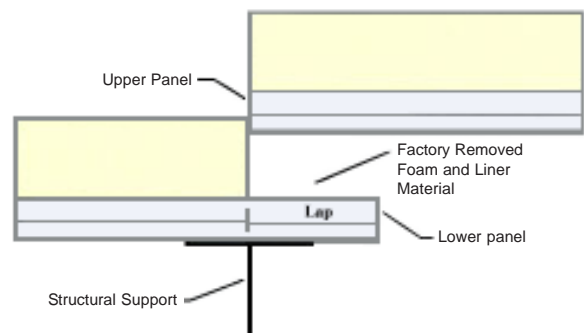
Fastening at roof base from topside



Deck Style fastening through panel from topside



End Lap Detail



In-stock Colors and Finishes

Color	Type	Application	Standard Warranty
Imperial White	1.0 mil Composite Polyester	Exterior / Interior	20 years
Snowdrift White	1.0 mil Premium Ceramic	Exterior	30 years
Sandstone	1.0 mil Premium Ceramic	Exterior	30 years
Surrey Beige	1.0 mil Premium Ceramic	Exterior	30 years
Regal Blue	1.0 mil Premium Ceramic	Exterior	30 years
Natural Green	1.0 mil Premium Ceramic	Exterior	30 years
Pearl Grey	1.0 mil Premium Ceramic	Exterior	30 years
White Plastisol	4 mil PVC	Exterior / Interior	Inquire
Stainless Steel	304 2B		N/A

Notes

- 1) Corle offers embossed metal surfaces as a standard on wall panels and non-embossed (smooth) for roof exterior surfaces. Non-embossed finishes may be available on wall panels upon request depending on color, gauge and end use.
- 2) Complete paint system specifications are available upon request.
- 3) The standard interior paint finish for all panels is Imperial White.
- 4) All colors, except Imperial White, are available in a fluorocarbon (PVDF) finish, upon request.
- 5) All colors shown below are Cool Roof formulations meeting High and Low Slope ENERGY STAR specifications

Color Chart



Corle Insulated Panels

Test / Approvals

Complete general specifications, test reports, load span tables and suggested installation details are available upon request.

Type

Structural
Thermal Transmission
Air/Water Infiltration
Factory Mutual 4880
Factory Mutual 4880
Factory Mutual 4881
Factory Mutual 4471
CAN/ULC

ASTME 72
ASTMC 518
ASTME 283/E331
IBC Stds 26-1, 26-3, 8-1, ASTM D 1929
Unlimited Height Wall / Ceiling (Passed)
Exterior Wall Windstorm
Wind Uplift, ASTME 108
S101-04, S102-07, S126-M86



Load Span Tables - Walls

Corle Insulated Panels

Allowable Load for All Wall Panels (PSF) Span (FT)

Panel Thickness (IN)	Panel Weight (PSF)	SIMPLE SPAN (FT)								MULTIPLE SPAN (FT)							
		6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0
2"	2.22	49	37	29	23	19				70	54	43	35	29	24	20	
2.5"	2.34	60	45	35	28	23	19			82	64	51	41	34	29	24	21
3"	2.41	70	53	41	33	27	22	19		94	74	59	48	40	33	28	25
4"	2.62	95	72	56	45	37	31	26	22	119	94	76	63	53	45	38	33
5"	2.82	101	77	61	49	40	33	28	24	128	100	81	66	55	47	40	35
6"	2.98	110	84	66	53	44	37	31	27	135	106	86	71	59	50	43	38

- Notes: 1) Spans shown are based on transverse load testing per ASTM E-72. Thermal effect due to temperature differentials have not been considered.
 2) Fastening schedules shall be based on project wind load requirements. Fasteners must be approved by AWIP based on the specific end use.
 3) Allowable deflection is L/180
 4) Facings are 26/26 gauge.

Load Span Tables - Roof

Corle Insulated Panels

Thickness (IN)	Number of Spans	Panel Weight (PSF)	Allowable Load for HR3/CR3 26/26 Roof Panel (PSF) Span (FT)						
			5.0	6.0	7.0	8.0	9.0	10.0	11.0
2.5"	Simple	2.33	56	49	39	30	25	20	17
	Multiple		63	54	44	36	31	26	23
4"	Simple	2.65	95	79	68	59	47	38	32
	Multiple		109	91	76	65	53	45	41
5"	Simple	2.86	120	102	85	76	61	47	41
	Multiple		128	112	98	83	68	60	53

Thickness (IN)	Number of Spans	Panel Weight (PSF)	Allowable Load for HR5 26/26 Roof Panel (PSF) Span (FT)											
			5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	
2.5"	Simple	2.33	81	65	54	44	40	33	26	20	16			
	Multiple		84	70	58	49	44	38	34	28	22			
4"	Simple	2.65	126	101	85	72	61	53	46	41	36	32	27	
	Multiple		128	107	88	77	67	59	53	47	42	39	35	
5"	Simple	2.86	157	128	97	90	78	67	58	51	45	41	37	
	Multiple		161	131	102	96	84	73	65	59	53	48	44	

- Notes: 1) Spans shown are based on deflection and connection strength derived from ASTM E-72 testing. Thermal effect due to temperature differentials have not been considered. Consult your Corle representative for project requirements.
 2) Connection pattern assumes one 1/4-14 self tapping fastener at each rib and at each minimum 16 ga. support.
 3) Allowable deflection is L/240.

Load Span Tables - Partition

Corle Insulated Panels

Allowable Axial Load Table for 26/26 Interior Liner / Partition Walls
Maximum wall panel height shall be limited as follows:

Panel Thickness (Inches)	Maximum Wall Panel Height (feet)	
	300 plf Axial Load	200 plf Axial Load
4	16	20
5	20	25
6	25	30

Notes:

- 1) Spans shown are based on stress and deflection limits per ASTM E-72 test results.
 - 2) Thermal effects due to temperature differentials have not been considered. Consult your Corle representative for project requirements.
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Axial Load Table - Partition

Corle Insulated Panels

Allowable Axial Load Table for 26/26 Interior Liner / Partition Walls
Maximum wall panel height shall be limited as follows:

Panel Thickness	Allowable Span (L/180)	Allowable Span (L/120)
2"	18' 1"	20' 0"
2.5"	21' 1"	22' 5"
3"	24' 0"	24' 6"
4"	28' 4"	28' 4"
5"	31' 8"	31' 8"
6"	34' 9"	34' 9"

Notes:

- 1) Spans shown are based on stress and deflection limits per ASTM-72 test results.
 - 2) Thermal effects due to temperature differentials have not been considered. Consult your Corle representative for project requirements.
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Disclaimer

All information published and distributed is thought to be reliable and correct. Installation details are meant to represent typical product applications based on standard construction practices. It is the ultimate responsibility of the buyer or his owner or architect to verify that the product(s) selected are suitable for the specific application. In accordance with our ongoing efforts to improve our products, we reserve the right to change any information contained in our publications without notice.



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