

Fabral Architectural Systems

Fabral Architectural Systems

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- Rathdrum, ID
- Marshfield, WI
- Tifton, GA



I/A-1
98-32-149
5/06 5K VPC



It's time to look at architectural panels in a whole new light.

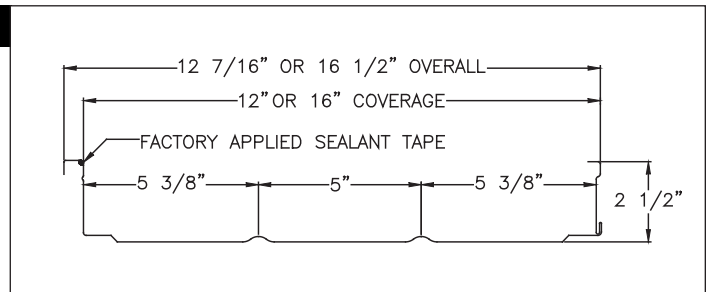
As a company, we stand strong as an industry innovator, manufacturer and as one of the best resources in the field. Our three decades of panel design and quality manufacturing along with nationwide facilities, place Fabral in a unique position to serve customers large and small and provide them with on-site field support and technical advice.

Fabral maintains a broad range of product design and color choices with high architectural appeal. Aesthetically pleasing and durable, Fabral architectural panels offer contractors and architects the finest choice of materials and customer service on the market today.

Standing-Seam Roof Systems

Stand 'N Seam®

- A high-performance, structural standing seam roof system for the most demanding applications
- **Test reports confirm that Stand 'N Seam has the highest wind uplift resistance of any standing seam panel available on the market**
- Unique one-piece stainless steel clip design does not fold into side joint of panel, allowing unrestricted thermal movement
- Side joints are double lock-seamed with an electric seaming machine, ensuring weathertightness
- Factory or field-forming by a portable roll-former provides continuous long-length panels from ridge to eave and eliminates unsightly end-laps. Field forming available by qualified Fabral operators
- Factory-applied sealant is standard
- ASTM E1592 and Multiple UL90 ratings in both steel and aluminum for applications over open framing or solid substrates
- Fully tested performance for air and water infiltration
- Multiple UL fire resistant assemblies available

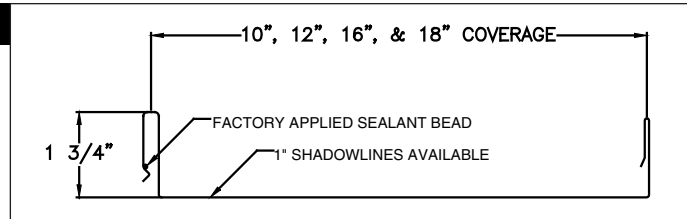


Wind uplift	UL90	#275, 275A, 275B
	UL2218	Class 4 impact
Air infiltration	ASTM E1592	24 ga allowable load of 69.70 psf @ 5'
	ASTM E330	24 ga allowable load of 95.76 psf @ 2.5'
		22 ga allowable load of 87.88 psf @ 5'
		.032" AL allowable load of 48.48 psf @ 5'
		.032" AL allowable load of 66.67 psf @ 2.5'
		.040" AL allowable load of 66.67 psf @ 5'
Water penetration	ASTM E283	.006 @ 20 psf
	ASTM E1680	0.00 @ 20 psf
Minimum roof slope	ASTM E331	no water @ 20 psf
	ASTM E1646	no water @ 20 psf
Available widths		1/2:12
Standard lengths		12" and 16"
		6' to 47'

Standing-Seam Roof Systems

Thin Seam

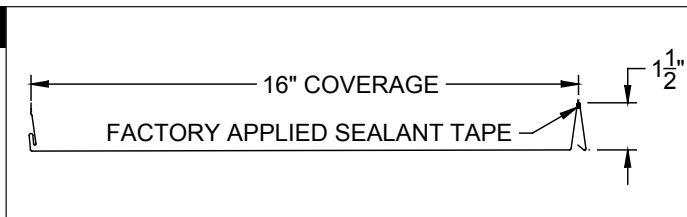
- Classic design and high-performance combine to make Thin Seam a widely specified roof system
- Panel seams snap together for easy installation
- Multiple UL90 ratings
- Factory-applied sealant is standard
- Stiffening ribs or shadow lines available for different aesthetic requirements
- Can be installed over open framing or solid substrates



Wind uplift	UL90	#359, 359A, 343, 417
	ASTM E1592	22 ga allowable load of 40.61 psf @ 5'
		22 ga allowable load of 48.48 psf @ 2.5'
		24 ga allowable load of 29.70 psf @ 5'
Calculated loads		.032 AL allowable load of 15 psf @ 5'
		.032 AL allowable load of 36 psf @ 2.5'
Air infiltration	ASTM E283	.009 @ 6.24 psf
Water penetration	ASTM E331	no water @ 15 psf
Minimum roof slope		1:12
Available widths		10", 12", 16" and 18"
Standard lengths		6' to 47'

Slim Seam®

- An economical, high-performing standing seam roof system that's ideal for architectural and commercial applications
- Unique stainless steel clip allows for thermal movement
- Installer friendly, snap-together side joint
- Factory-formed panels, with factory-applied sealant
- Multiple UL ratings for both steel and aluminum substrates
- UL Class A fire rated
- Usually installed over solid substrate but may be installed over open framing with 3' O.C. maximum spacing

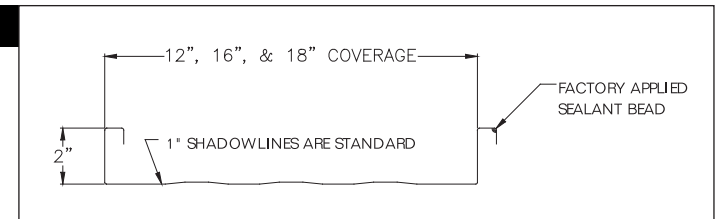


Wind uplift	UL90	#274, 274A, 369
	UL2218	Class 4
	ASTM E1592	24 ga allowable load of 48.48 psf @ 2.5'
Calculated loads		.032 AL allowable load of 48 psf @ 2.5'
Air infiltration	ASTM E283	.09 @ 1.57 psf
	ASTM E1680	0.00 @ 20 psf
Water penetration	ASTM E331	no water @ 25 psf
	ASTM E1646	no water @ 12 psf
Minimum roof slope		1:12
Available widths		12" and 16"
Standard lengths		6' to 47'

Standing-Seam Roof Systems

AMP Lok

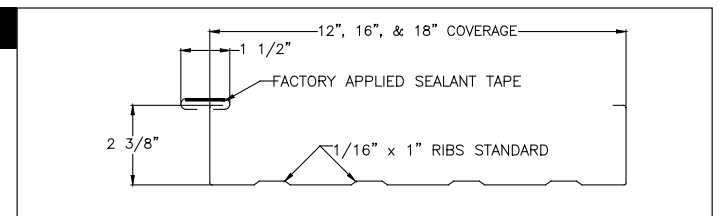
- Factory-applied sealant is standard
- Mechanical seaming ensures weathertightness
- 2 piece clip allows for thermal movement
- Choice of shadow lines or stiffening ribs is standard
- Multiple UL90 ratings
- Can be installed over open framing or solid substrate



Wind uplift	UL90	#90, 176, 180, 238, 548, 549
Air infiltration	ASTM E283	.01 @ 15 psf
Water penetration	ASTM E331	no water @ 6.24 psf
Minimum roof pitch		1:12
Available widths		12", 16" and 18"
Standard lengths		6' to 47'

T-Rib®

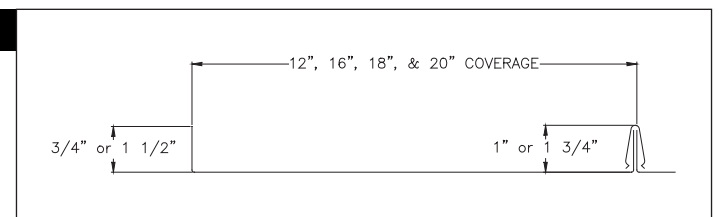
- Symmetrical design allows ease of installation for difficult hip, ridge and valley conditions
- Mechanically-seamed cap strip with factory-applied sealant tape assures a weather-tight seam
- One-piece concealed clip allows for thermal movement
- Panels can be tapered
- Multiple UL90 ratings for steel panels
- Can be installed over open framing or solid substrate



Wind uplift	UL90	#103, 139, 415, 416
Air infiltration	ASTM E283	.015 @ 6.24 psf
Water penetration	ASTM E331	no water @ 6.24 psf
Minimum roof slope		1/2:12
Available widths		12", 16" and 18"
Standard lengths		6' to 47'

Snap-On-Seam

- Concealed clip allows for thermal movement
- 1" panel can be curved to a minimum radius of 5' 0"
- Panels can also be tapered
- Easily handles roof to fascia transitions
- Installation over solid substrate is required



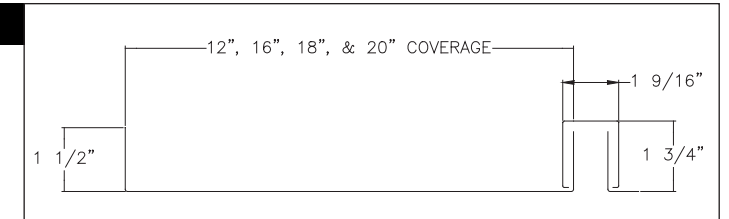
Minimum roof slope		3:12
Available widths		12", 16", 18" and 20"
Standard lengths		6' to 47'



Standing-Seam Roof Systems

Snap-On-Batten

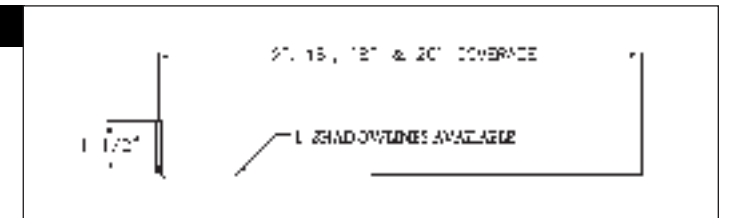
- Classic bold box batten look
- Concealed clip allows for thermal movement
- Panels can be tapered
- Installation over solid substrate is required



Minimum roof slope	3:12
Available widths	12", 16", 18" and 20"
Standard lengths	6' to 47'

High Seam

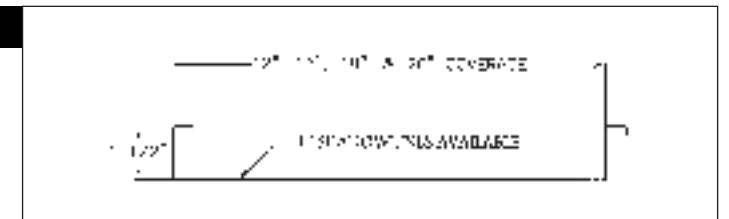
- One-piece clip allows for thermal movement
- UL90 rating for installation over plywood substrate
- Optional shadow lines available
- Installation over solid substrate is required



Wind uplift	UL90	#370
Minimum roof slope	2:12	
Available widths	12", 16", 18" and 20"	
Standard lengths	6' to 47'	

Double Lok

- An economical mechanically-seamed roof panel
- Two-piece clip allows for thermal movement
- Provides a traditional 5-ply double lock standing seam
- Installation over solid substrate is required

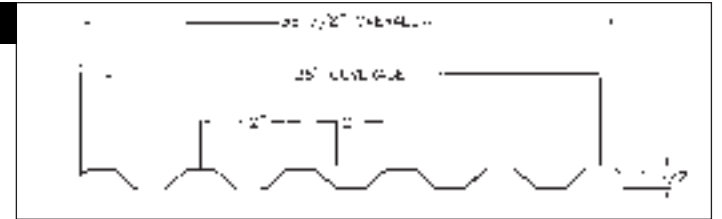


Minimum roof slope	3:12	
Available widths	12", 16", 18" and 20"	
Standard lengths	6' to 47'	

Exposed-Fastener Panels

Hefti-Rib®

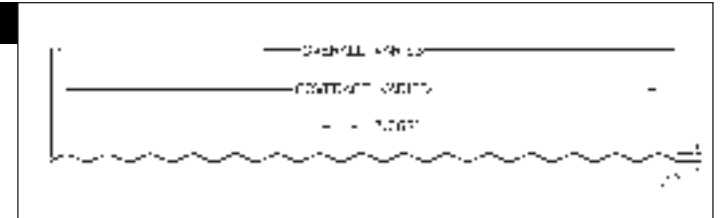
- 7.2" rib pitch allows best strength-to-weight ratio available
- Excellent for both wall and roof applications
- Available in .032" and .040" aluminum and 24, 22, 20 and 18 gauge steel
- Diaphragm capacity per ICBO Evaluation Report



Minimum roof slope	2:12
Standard lengths	6' to 45'

1/2" Corrugated

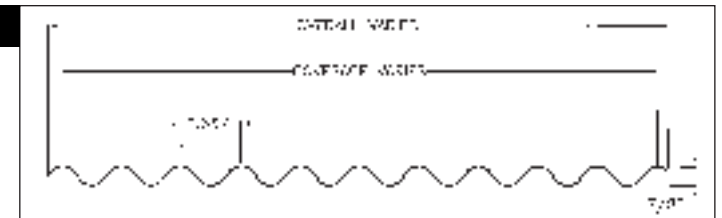
- An economical and versatile wall or roof panel
- Can be perforated for acoustical applications. Standard 13.3% open area (1/8" diameter holes on .325" staggered centers)



Minimum roof slope	2 1/2:12
Standard lengths	6' to 45'

7/8" Corrugated

- Bolder look
- Great for exterior and interior uses
- Can be perforated for acoustical applications. Standard 13.3% open area (1/8" diameter holes on .325" staggered centers)

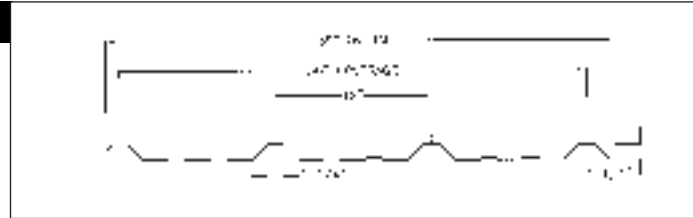


Minimum roof slope	2 1/2:12
Standard lengths	6' to 45'

Exposed-Fastener Panels

Mighti-Rib® PBR

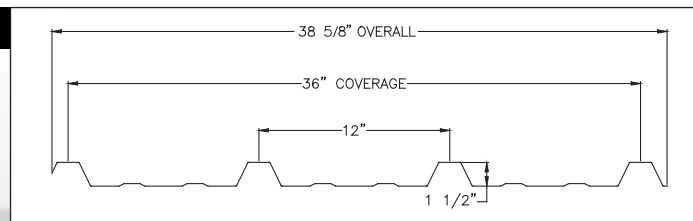
- Excellent for commercial and industrial applications requiring economy
- 26 through 18 gauge steel
- Diaphragm capacity per ICBO Evaluation Report
- UL90 rating when attached to steel purlins
- Available unpainted or finished with high-performance Super Alurite® paint system in 26 gauge and PVDF in heavier gauges
- Aluminum available on an inquiry basis



Minimum roof slope	1:12
Standard lengths	6' to 45'

Ultra Rib®

- 26 gauge industrial quality steel or AZ50 (painted) and AZ50 (unpainted) coatings
- Purlin bearing leg
- Perfect for commercial and industrial applications
- Aluminum available on an inquiry basis

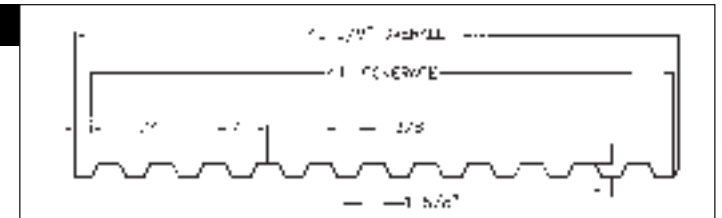


Minimum roof slope	1:12
Standard lengths	6' to 40'

Exposed-Fastener Panels

4" Rib

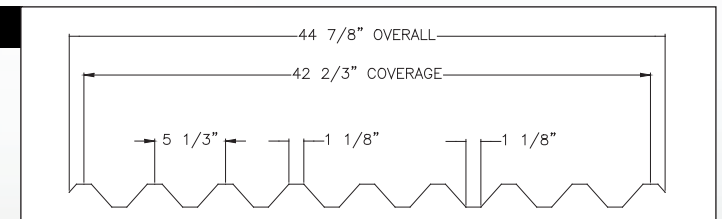
- An industry standard – ideal for heavy industrial and lagging applications
- Available in .032", .040" and .050" aluminum
- Available in mill finish, alclad or painted
- Available in 24, 22 and 20 gauge steel (panel width is 35 9/16" with 32" coverage)
- 8" rib available on inquiry basis



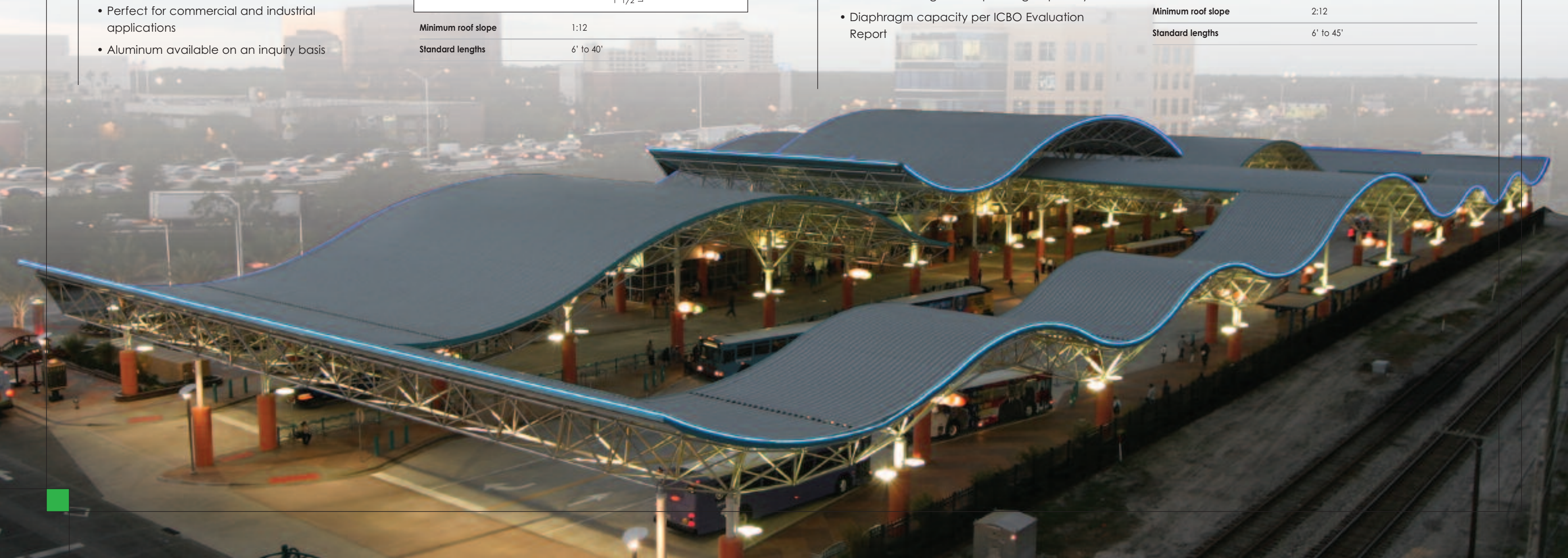
Standard lengths	6' to 45'
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V-Beam

- Available in .032", .040" and .050" aluminum
- Available in 24, 22 and 20 gauge steel (panel width is 33 7/8" with 32" coverage)
- Excellent strength and spanning capability
- Diaphragm capacity per ICBO Evaluation Report



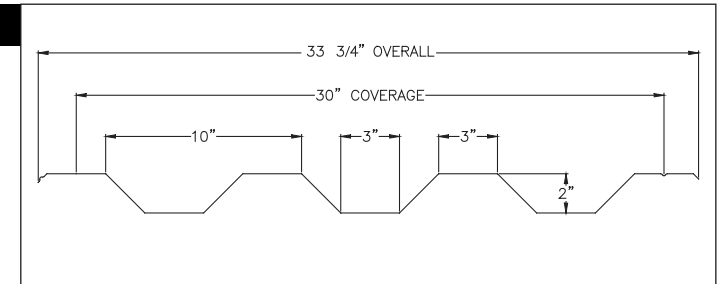
Minimum roof slope	2:12
Standard lengths	6' to 45'



Exposed-Fastener Panels

Deep Rib II

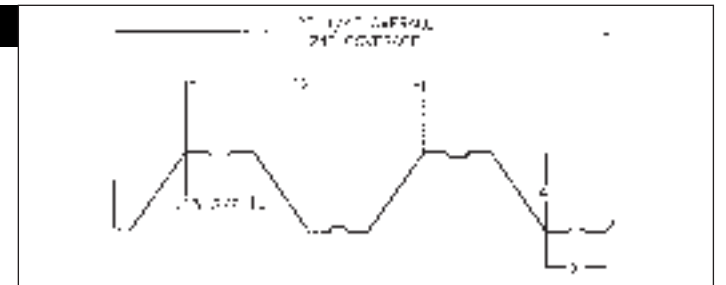
- Can be used for both wall and roof applications
- Available in .032", .040" and .050" aluminum (43 7/8" panel with 40" coverage)
- Available in 22 and 18 gauge steel



Minimum roof slope (When inverted as roof)	1:12
Standard lengths	6' to 16' aluminum 6' to 32' steel

Deep Rib IV

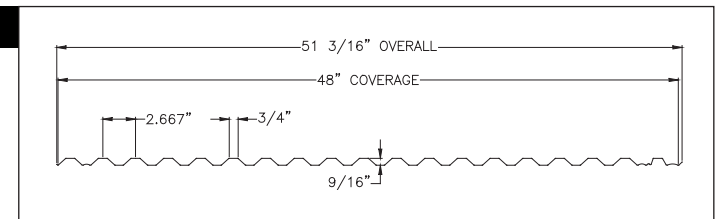
- A bold rib design, perfect for horizontal and vertical applications
- 4" deep ribs provide excellent strength and spanning capacity
- Can be used for both walls and roofs (invert for roofing)
- Excellent for applications with large spans between structural framing members
- Available in 22, 20 and 18 gauge steel and .032", .040" and .050" aluminum



Minimum roof slope	1:12
Standard lengths	6' to 45'

Fabrib®

- A 9/16" deep panel perfect for light-duty commercial and process applications
- .018" and .021" aluminum
- Anti-siphon channel prevents water wicking at side joints



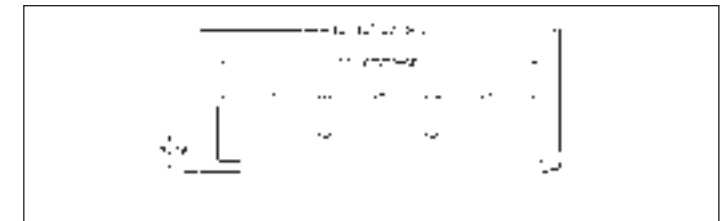
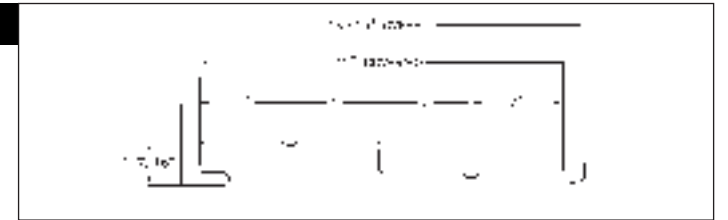
Minimum roof slope	2 1/2:12
Standard lengths	6' to 45'



Concealed-Fastener Panels

CFP-6™ / CFP-12™

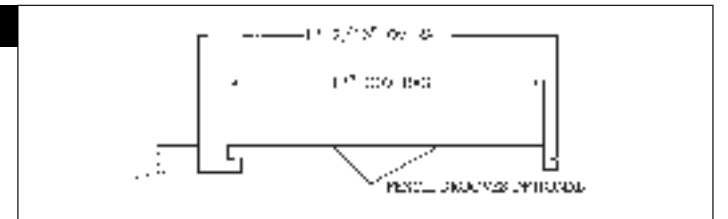
- Concealed fasteners for maximum aesthetic value
- Perfect for sidewalls, fascias and equipment screens
- Two stiffening ribs standard
- Panel ends can be swedged and endlapped
- Available with factory-applied sealant to ensure a weathertight wall assembly



Standard lengths 6' to 45'

Décor-Flush®

- Ideal for soffits, fascias and vertical wall applications
- Concealed fasteners for maximum aesthetic value
- Factory-applied sealant at side joint
- Pencil grooves available



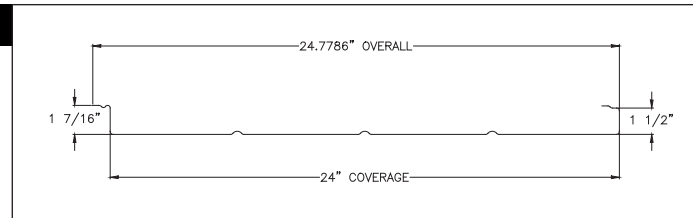
Standard lengths 6' to 45'

Concealed-Fastener Panels

LP-15 Liner Panel

- Perfect for field-assembled projects requiring insulated walls and roofs
- Panel legs allow for easy attachment of subgirts
- Factory-applied sealant in overlapping rib to ensure a weathertight assembly
- Available perforated for acoustical applications
- Thermal and acoustical test reports available
- Consult Fabral for the availability of LP-25 (2 1/2" deep liner panel)

Note: For aluminum liner applications, subgirts must be through-fastened to structural girts.

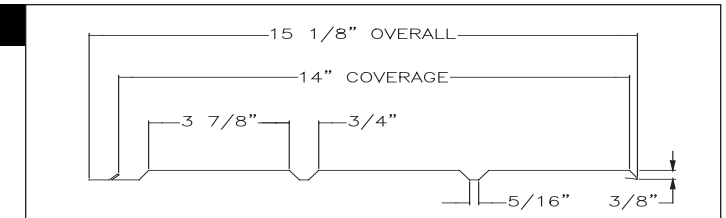


Standard lengths 6' to 45'

Concealed-Fastener Panels

Posi-Lock Soffit

- .032" aluminum and 24 gauge steel are standard
- Interlocking design with concealed fasteners allows for fast and economical installation
- Available solid or vented (9.2% open area)

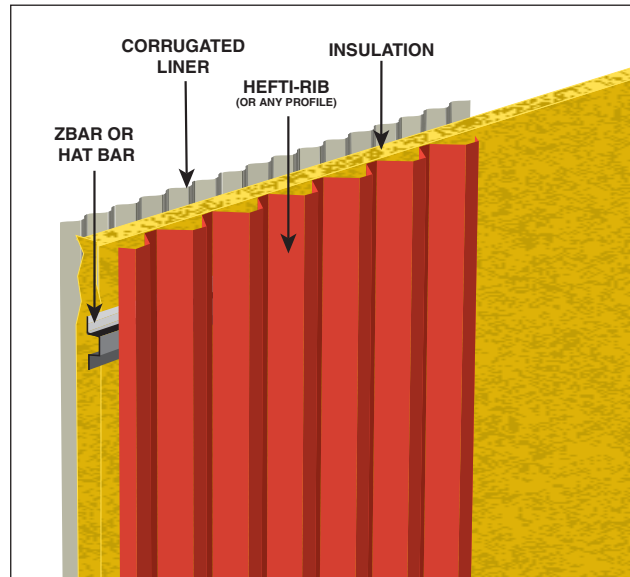


Standard lengths 6' to 45'

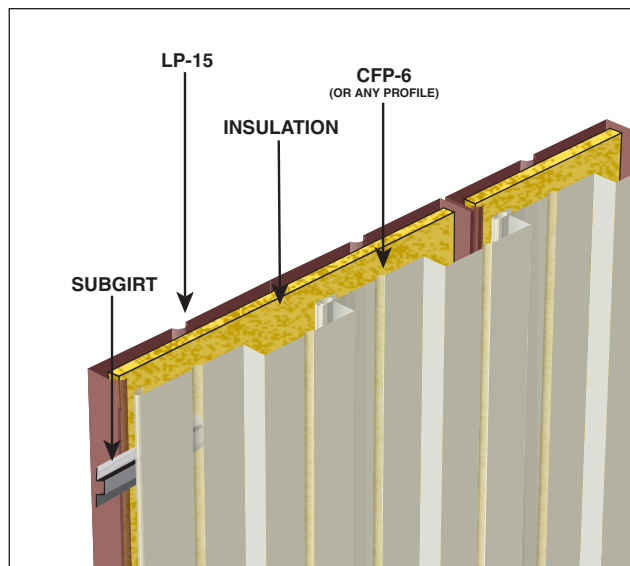


General Information

Field Assembled Wall Details



Field Assembled System—Corrugated Liner



Field Assembled System—Flat Liner

*Kynar 500 is a registered trademark of Elf Atofina. Hylar 5000 is a registered trademark of Ausimont USA.

Finishes and Substrates

- Fabral metal wall and roof systems feature 70% Kynar 500 or Hylar 5000® polyvinylidene fluoride (PVDF) resins to ensure long-term color retention and performance.
- In addition to PVDF-based finishes, Fabral can also provide vinyl plastisols and high-performance silicone modified polyesters (SMP) for specific applications.
- **Galvalume, Grade 40, Grade 50, AZ50 Aluminum-Zinc alloy coating conforming to ASTM A792**
 - 24, 22 and 18 ga. standard for all profiles
 - 20 ga. available for most profiles—please inquire
 - Acrylic coating standard for all unpainted applications
- **Aluminum**
 - .032" Aluminum, Alloy 3105 H14 standard for standing-seam panels
 - .040" Aluminum available for select standing-seam profiles
 - .032" and .040" Aluminum, Alloy 3105 or 3004 H36 or equal standard for exposed/concealed fastener panels. .050" available for select profiles
 - Alclad (alloy 3004 with 7072 cladding) aluminum available for select profiles
- **Galvanized Steel, G-90, Grade 40 or Grade 50 conforming to ASTM A653**
 - 24, 22, 20 and 18 ga. optional substrate for most profiles—please inquire
- **Stainless Steel, Copper, Zinc — please inquire for availability**
 - Consult for the availability of fabricated flashings and trim, mitered corners, fasteners, roof underlayment, sealant, touch-up paint, etc.
- **Oil canning can be caused by many factors that are out of Fabral's control and is not cause for rejection.**

Warranties

- Fabral panels feature a 20-year paint-finish warranty.
- A wide selection of weathertightness warranties are available for up to 20 years on most standing-seam panels—providing you with the peace of mind and confidence of knowing you have long lasting application protection.
- Corrosion warranties are available for our products that utilize Galvalume or aluminum as a substrate material.
- You may request a copy of any of our warranties for specific details.

General Information

Test Reports

AIR INFILTRATION

ASTM E283 is a static air infiltration test using an air-tight test chamber assembly in the form of a large box. The panel test specimens constitute one of the sides of the box. Air is forced into or exhausted from the test chamber, producing a pressure differential across the specimen. The amount of air passing through the test panels is measured in cfm. ASTM E1680, a new standard, is the air infiltration and exfiltration test standard designed specifically for metal roof panels.

UL90 UPLIFT RATING

This wind uplift resistance test (UL580) has become an industry standard. Test panel specimens are placed on a 10' x 10' test chamber and fastened to the tested substrate. The test involves severe load cycling as well as testing for a sustained period of five minutes at a maximum uplift pressure of 105 psf for a UL90 rating. UL60 and UL30 ratings are similar to UL90 ratings except that the maximum uplift pressure is 75 psf and 45 psf respectively. Because the specimens are not tested to failure and the test assembly is not similar to an actual roof assembly, test ratings and assemblies should not automatically be used for design purposes.

WATER PENETRATION

ASTM E331 is a static water penetration test. The test chamber is identical to the air infiltration test. Differential pressures are applied for 15 minutes while spraying water uniformly over the exterior surface of the panel test specimens. The passing requirement for ASTM E331 is that there shall be no evidence of any "uncontrolled leakage" during the test. ASTM E1646, a new standard, is the water penetration test standard designed specifically for metal roof panels.

ASTM E1592 UPLIFT

This is the latest metal roofing uplift test. This test simulates actual field conditions because of the large chamber. The test chamber is usually at least five panels wide by a length to test multiple purlin spacings (usually 25'). Air pressure is applied, deflections are recorded, and panels are closely examined after each test cycle. Failure loads are recorded so the test results can be used for design purposes unlike the UL uplift test results. This is the standard test required for standing seam panels on Army Corps of Engineers' projects.

FIREWALL PANELS

UL Rated One, Two and Three Hour fire-resistant panels are available utilizing Fabral steel (and aluminum in some cases) liner panels and exterior profiles. Field-assembled layers of gypsum wall board (5/8" thick per layer) and glass fiber insulation are placed between the liner and exterior panels. Contact Fabral for specific construction information on these firewalls.

