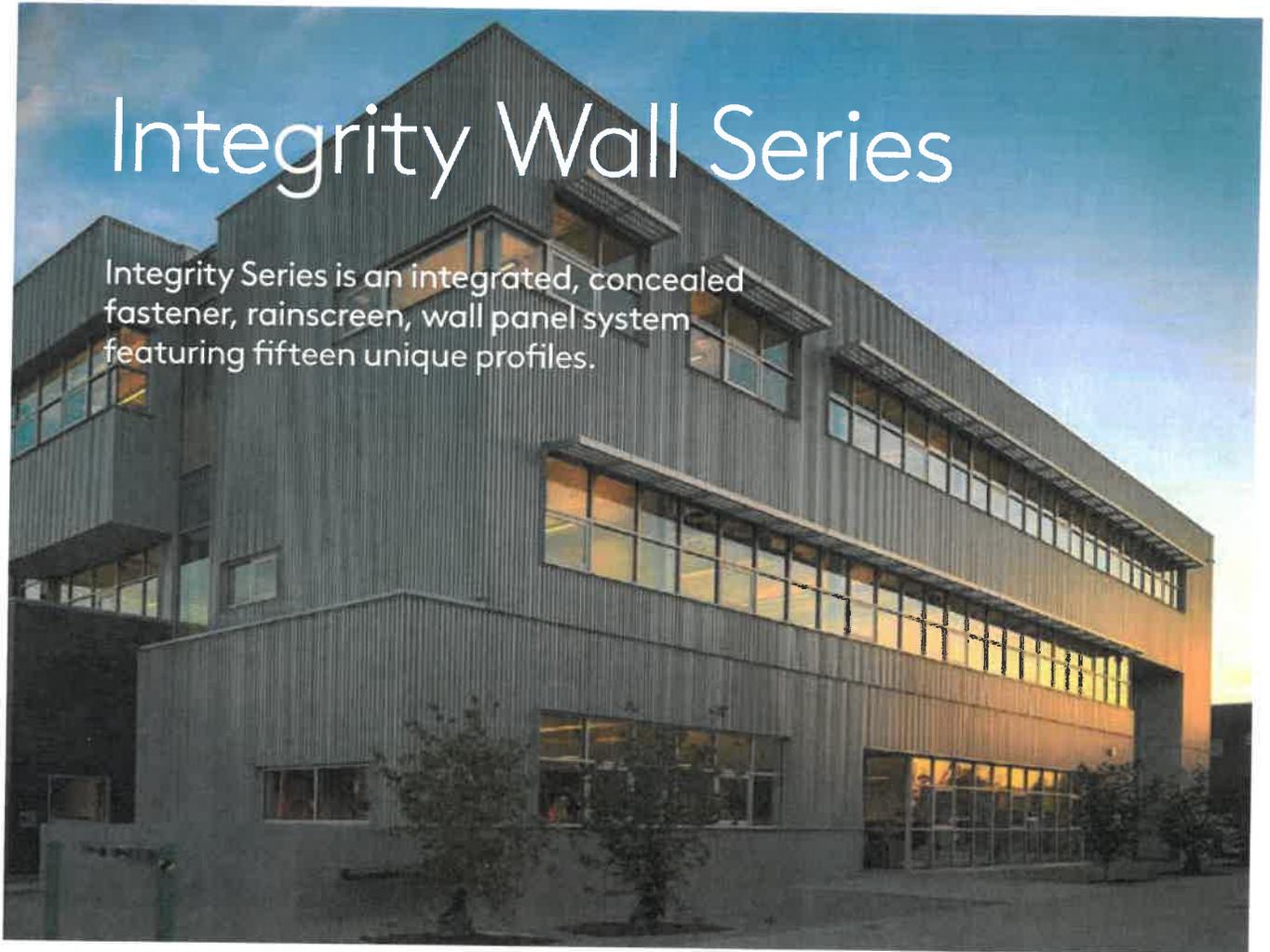
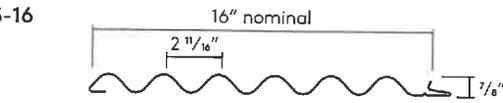
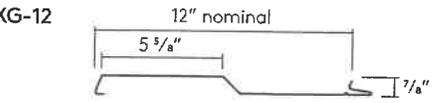
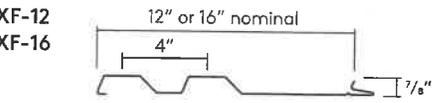
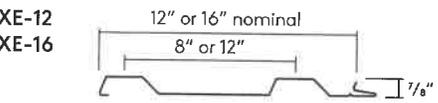
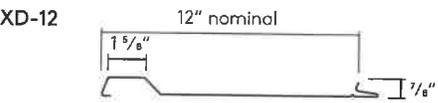
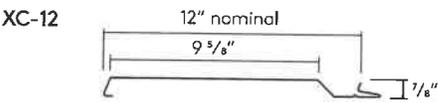
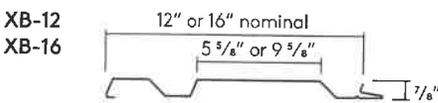
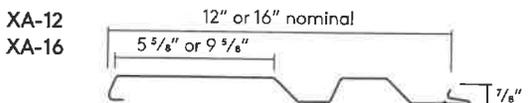
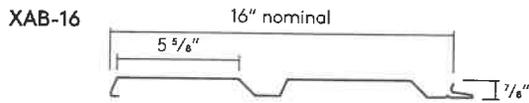
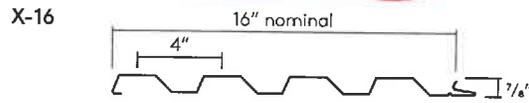
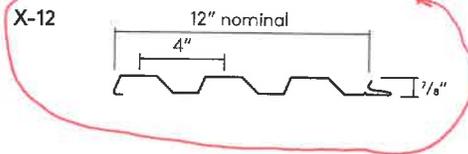


Integrity Wall Series

Integrity Series is an integrated, concealed fastener, rainscreen, wall panel system featuring fifteen unique profiles.





The asymmetrical shape of the X-12 panel was created in the early 1990's, since then it has become one of the most popular profiles selected by architects for use on buildings of all types.

- Concealed clip and fastener design
- Weather resistant or rainscreen rear ventilated application
- Ideal for new or retrofit projects
- Smooth surface standard, stucco embossed texture optional
- All PVDF painted finishes available
- Perforated options available
- Optional factory caulking available

Panel Depth:
7/8" (22mm)

Cover Width:
12" (305mm) or 16" (406mm)

Lengths:
5' (1.52m) to 30' (9.14m) standard.
Shorter and longer lengths available

Galvalume / Zincalume Painted Steel Options:
18 GA (1.19mm) / 20 GA (.91mm) /
22 GA (.76mm) / 24 GA (.60mm)

Aluminum Options:
.050 GA (1.27mm) / .040 GA (1mm)

Stainless Steel Options:
20 GA (.91mm) / 22 GA (.76mm) / 24 GA (.60mm)

Zinc Options:
18 GA (1.19mm) / 20 GA (1.0mm) / 22 GA (.91mm)

Natural Copper Options:
20 oz. / 16 oz.

Application:
Horizontal or vertical



Easy Integration
Common joint allows multiple panel integration with Pulse Series® and Matrix Series®

HQ / East 685 Middle Street, Bristol, CT 06010 T: 1-800-640-9501
 West 10707 Commerce Way, Fontana, CA 92337 T: 1-800-700-6140
 South 1975 Eidson Drive, DeLand, FL 32724 T: 1-800-640-9501
 www.morincorp.com

Morin
A Kingspan Group Company

FABRAL® SILHOUETTE HCF SERIES™

BRIEF PRODUCT SPECIFICATION

MANUFACTURER DESCRIPTION

- Fabral®, 308 Alabama Blvd, Jackson, GA 30233
- Telephone: 800.884.4484
- Email: sales@fabral.com
- Website: Fabral.com

PRODUCT DESCRIPTION

Acceptable Product:	Fabral® HCF Horizontal Wall Panel		
Air Infiltration:	ASTM E283	0.01 cfm/ft ² @ 20 psf	
Water Penetration:	ASTM E331	No water leakage @ 20 psf	
Structural Performance:	ASTM E330	24 ga steel - 2' spacing @	54.55 psf
		4' spacing @	33.33 psf
	.032" alum. - 2' spacing @	48.48 psf	
		4' spacing @	24.24 psf
Class 4 impact:	UL2218		
Class A fire:	UL790		

WIND UPLIFT LOAD TABLE (PSF)

Substrate	Spans	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"
24 ga. Steel	3	54	48	43	38	33
22 ga. Steel	3	60	53	48	42	37
.032" alum.	3	48	42	36	30	24

DESIGN INFORMATION

- Purlin Spacing: Maximum – 4' on-center
- Field Curving: Minimum radius 200'
- Panel Length: Maximum - 30'
- Panel Width: 12", 16"

PRODUCT INSTALLATION

Install panels plumb, level and straight so it is watertight and without waves or other distortions, allowing for thermal movement considerations. Apply sealant tape or caulking as necessary at flashing and panel joints to prevent water penetration.

PRODUCT MAINTENANCE AND WARRANTY

Fabral® provides a 30 year paint-finish warranty for cracking, chipping, peeling, fading and chalking – providing confidence in a long-lasting application.

To ensure the durability of your Silhouette HCF panels, use proper care. Remove filings, grease, stains, marks or excess sealants from roof panels system to prevent staining. Store panels and flashings in a safe, dry environment.

RECENT PROJECTS

Segment	Project Name	Location	Quantity	Architect/Distributor
Healthcare	Hand and Microsurgery Associates	Columbus, OH		Trinity Healthcare Group
Office Building	Landmark Office Building	Wake Forest, NC		N.B. Handy Co
Education	Georgia Tech CNES Lab	Austell, GA	95 sq	Abrams Architectural Products, Inc.
Education	Lebanon Middle School	Lebanon, NH	161 sq	Palace Construction, Inc.

FABRAL® SILHOUETTE HCF SERIES™

BRIEF PRODUCT SPECIFICATION



College Park Elementary School, Virginia Beach VA, USA

"For the design of this elementary school project, we needed to visually break up the façade. The HCF Series gave us more color options and the flexibility to integrate color in the design."

Clay Dills, Dills Architects

FABRAL
CORE

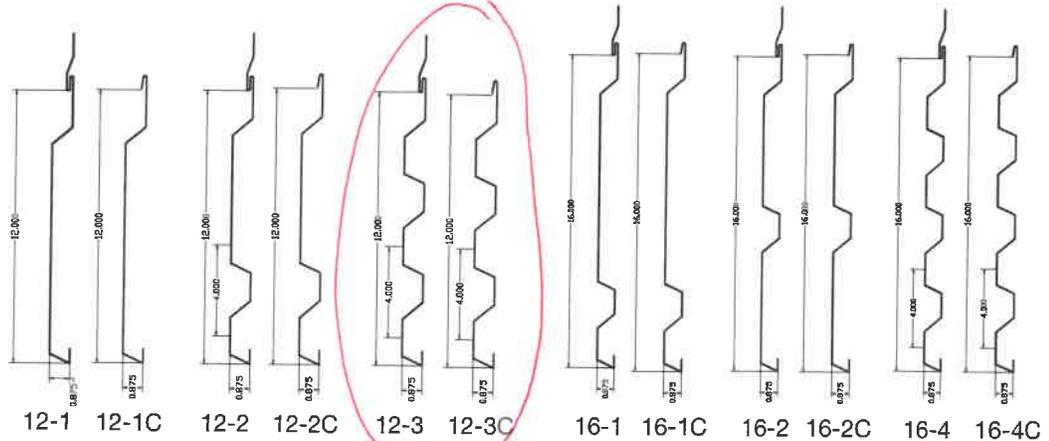
**You challenge us.
And we like it.**

Your vision for a building and what you want to achieve makes us think harder. It'd be easy to say - That won't work. Instead we go with - Let's see what we can do.

Fabral.com
800.884.4484

CONCEALED FASTENER WALL PANEL SILHOUETTE HCF SERIES™

Fabral® Silhouette HCF Series™, a horizontal concealed fastener system, provides a range of profiles and configurations for architectural, commercial and industrial applications. With options of one to four ribs and multiple profiles, architects and designers have at their disposal the ultimate in design versatility in a strong, durable wall panel. An interlocking sidelap feature hides fasteners and is installed with or without clips to allow for thermal movement.

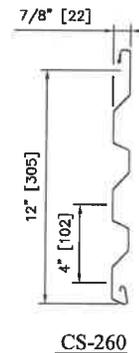
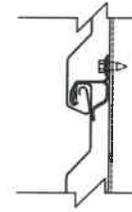
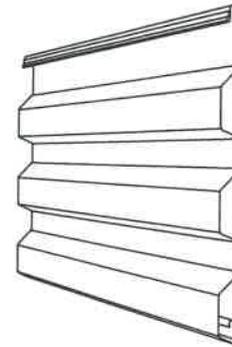


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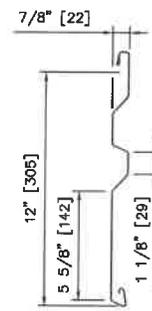
Description

12" [305mm] wide coverage, 7/8" [22mm] deep profiled panels featuring one, two, or three asymmetrical ribs. These profiles have a unique interlocking side joint that incorporates a 16 gage [1.52mm] clip that provides concealed fastening and allows for thermal movement in non-overlapping conditions. This joint also functions to minimize moisture intrusion.

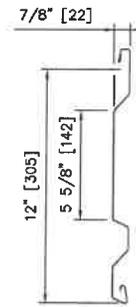
All Concept Series wall panels can be installed in a variety of horizontal or vertical rainscreen applications to form a complete wall system. Systems may vary from an uninsulated screen wall to a system utilizing MetalWrap®, an insulated composite backup panel system that provides Advanced Thermal and Moisture Protection (ATMP®). Contact your local CENTRIA sales person for more information regarding the performance of CENTRIA's rainscreens. This wall panel system has three attachment clip options. Contact CENTRIA for more information.



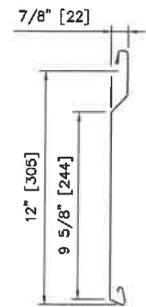
CS-260



CS-220



CS-210



CS-200

Notes

- A. For information on special applications, contact your local CENTRIA Representative.
- B. All Concept Series panels may be used on walls and soffits but not roofs.
- C. Panel length tolerance is + or - 1/4" [6mm].
- D. For protective coatings - see CENTRIA Color Chart or visit www.CENTRIA.com.
- E. Oil canning within mill tolerances will not be cause for rejection.

General Design Options

	GALVANIZED ¹ (G90)	STAINLESS STEEL ¹ (304)	ALUMINUM ¹ (3003-H14)	ZINC ¹ (PRE-WEATHERED)
PANEL DEPTH	7/8" [22mm]	7/8" [22mm]	7/8" [22mm]	7/8" [22mm]
PANEL COVERAGE	12" [305mm]	12" [305mm]	12" [305mm]	12" [305mm]
SIDE LAP	Interlocking	Interlocking	Interlocking	Interlocking
END LAPS	(See standard detail) Shop or field notch 2" [51mm] for 22 [.76mm] and 24 [.60mm] gages only. Flash or extrusion for all gages	(See standard detail) Shop or field notch 2" [51mm] for 22 [.76mm] and 24 [.60mm] gages only. Flash for all gages	(See standard detail) Shop or field notch 2" [51mm] for .032" [.81mm] Flash or extrusion for all thicknesses	(See standard detail) Flashing
GAGES (STANDARD)	20 [.91mm], 22 [.76mm]	20 [.91mm], 22 [.76mm]	.040" [1.02mm], .050" [1.27mm]	1mm [.039"]
GAGES (OPTIONAL)	18 [1.19mm], 24 [.60mm] CS-260 only	24 [.60mm] CS-260 only	.032" [.81mm] CS-260 only	Contact CENTRIA
STANDARD LENGTH	5 [1.52m] - 30 ft. [9.14m]	5 [1.52m] - 30 ft. [9.14m]	5 [1.52m] - 20 ft. [6.10m]	5 [1.52m] - 10 ft. [3.05m] ³
TEXTURE (STANDARD)	Smooth	Smooth	Smooth	Smooth - Directional
TEXTURE (OPTIONAL)	Embossed ² (20 [.91mm] - 24 [.60mm] gage only)	Embossed ²	Embossed ² (.032" [.81mm] only)	N/A
FINISHES	See CENTRIA Color Chart	#4 Brushed	See CENTRIA Color Chart	See Jarden Color Chart

1. Alternate base material, panel lengths and gages may also be available. Contact CENTRIA.
 2. Embossing is non-directional.
 3. Maximum Zinc Panel lengths are 10' [3.048m] for vertical and 20' [6.0m] for horizontal panels.
 * Patent No.: US D538,948; D527,834