



LISTING INFORMATION OF Composites Gurea Parklex FACADE F HPL Wall Panel System

SPEC ID: 28296

Composites Gurea SA
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PRODUCTS COVERED

Parklex FACADE F HPL Panels

PRODUCT DESCRIPTION

Parklex FACADE F panel is a stratified high-density timber panel for internal and external applications. Parklex FACADE F panels are formed internally with kraft paper wood fibres treated with phenolic thermoset resins and compressed at high pressures and temperatures. The surfaces generally have a thin layer of veneer, giving the surface of the panel a wood-like texture and appearance.

INSTALLATION

Parklex FACADE F panel is installed in accordance with the manufacturer's published installation instructions and applicable code requirements. Architectural details related to the treatment of windows, doors, fire protected penetrations, etc., are the responsibility of Composites Gurea and the Design Professional.

The Parklex Facade wall panel was tested in accordance with the following test methods: ICC-ES AC92, ASTM E330, ASTM E84, CAN/ULC S134, NFPA 268, NFPA 285.

Standard	Description	Results
ICC-ES AC92 (Dec. 2013)	Acceptance Criteria for Polymer-Based, Polymer-Modified and High-Pressure Laminate Exterior and Interior Wall Cladding†	Complies with performance requirements
ASTM E84-10b	Test Method for Surface Burning Characteristics of Building Materials (30-minute test) Flame Spread Index*: Smoke Developed Index*:	 ≤25 ≤450
NFPA 285	Standard Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components†	Complies See Design No. CG/CWP 30-01
NFPA 285	Standard Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components (8mm thick panel only)	Complies See Design No. CG/CWP 30-02

NFPA 268	Standard Test Method for Determining Ignitibility of Exterior Wall Assemblies Using a Radiant Heat Energy Source†	Complies
CAN/ULC S134	Standard Method of Fire Test of Exterior Wall Assemblies	Complies See Design No. CG/EF SP-01
ASTM E330	<p>Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference, Method B.</p> <p>10mm thick panel with Concealed Fastener. (Maximum spacing for girts, channels, fasteners, and panel span is 24 inches)</p> <p>The assemblies tested had overall dimensions of 96 in. x 96 in., constructed of 18 gauge x 3-5/8-in. steel studs 24-in. o.c.. Each stud, to top/bottom track, was secured with a 7/16-in. pan head framing screw. Aluminum J channel and horizontal rail were then secured to the steel studs using #14 x 3/4-in. fasteners. Aluminum fixed hanging hooks were attached to the 3/8-in (10mm) 4-ft x 8-ft HPL panels using (2) TB-A@TX 30 fasteners per hanging hook. The panels with hanging hooks are hung on the horizontal hanging rails leaving a full height vertical panel joint.</p> <p>Positive Load (Ultimate): 103 psf Negative Load (Ultimate): 60 psf</p>	
	Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference, Method B.	

ASTM E330	<p>10mm thick panel with Exposed Fasteners. (Maximum spacing for girts [20 GA, Galvanized Z-Girts], channels, fasteners, and panel span is 24 inches)</p> <p>The assemblies tested had overall dimensions of 96 in. x 96 in., constructed of 18 gauge x 3-5/8-in. steel studs 24-in. o.c.. Each stud, to top/bottom track, was secured with a 7/16-in. pan head framing screw. 20 gauge galvanized horizontal Zee girt profiles are attached to the steel studs using #14 x 1-1/2-in. screws 24-in o.c. 20 gauge galvanized vertical Zee girts are attached to the horizontals Zee girts using #14 x 3/4-in. screws 24-in o.c. The 3/8-in (10mm) 4-ft x 8-ft HPL panels are installed to the vertical Zee girts using SX3 #14-11 Irius Drive 304 stainless steel screws 24-in o.c. through pre-drilled holes in the panel into the Zee girts.</p> <p>Refer to Design No. CG/CWP 30-01 for additional details of wall construction.</p> <p>Positive Load (Ultimate): 110 psf Negative Load (Ultimate): 90 psf</p>	
	<p>Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference, Method B.</p> <p>8mm thick panel with Exposed Fasteners. (Maximum spacing for channels (hat sections), fasteners, and panel span is 24 inches).</p> <p>The assemblies tested had overall dimensions of 96 in. x 96 in.,</p>	

ASTM E330	<p>constructed of 18 gauge x 3-5/8-in. steel studs 16-in. o.c.. Each stud, to top/bottom track, was secured with a 7/16-in. pan head framing screw. Insulator pads and aluminum brackets were secured to the steel studs with 1/4-in. x 1-1/2 inch self-drilling hex head screws. Aluminum L channels were then secured to the aluminum brackets by using 1/4-in x 1-1/2 inch self-drilling hex head screws 24 inches oc. Aluminum J channels (or hat channel at panel seam) were then secured to the L channels using 1/4-in. by 1-1/2 inch self-drilling hex head screws. The 4 ft. x 8 ft x 8mm thick HPL composite panels were secured to the J channel (or hat channel) with #10 by 1-1/4 in. screws 24 inches oc.</p> <p>Refer to Design No. CG/CWP 30-02 for additional details of wall construction.</p> <p>Positive Load (Ultimate): 113 psf Negative Load (Ultimate): 70 psf</p>	
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*Product tested was 10 mm thick Parklex Facade F panel. Engineering Evaluation extended the performance values to 6 mm, 8 mm, and 12 mm thick Parklex Facade F panel.

†Product tested was 10 mm thick Parklex Facade F panel. Engineering Evaluation extended the performance values to 6 mm, and 8 mm thick Parklex Facade F panel.

‡Product tested was 6 and/or 12 mm thick Parklex Facade F panel with performance recognition extended to 8mm and 10mm thick panels.

Results of testing document product/system compliance to the referenced Standards.

<u>Attribute</u>	<u>Value</u>
Classification - Flame Spread Index	25 or less

Classification - Smoke Developed Index	450 or less
Criteria	CAN / ULC S134 (1992)
Criteria	CAN / ULC S134-92 (R1998)
Criteria	ASTM E84 (2009)
Criteria	NFPA 285 (2006)
Criteria	ASTM E84 (2010b)
Criteria	ASTM E84 (2011a)
Criteria	ASTM E84 (2012)
Criteria	ASTM E84 (2011c)
Criteria	ASTM E84 (2011b)
Criteria	NFPA 285 (2012)
Criteria	NFPA 268 (2012)
Criteria	ICC-ES AC92 (2013)
Criteria	ASTM E330 (2014)
CSI Code	07 42 43 Composite Wall Panels
Intertek Services	Certification
Listed or Inspected	LISTED
Listing Section	BUILDING MATERIALS WITH SURFACE BURNING CHARACTERISTICS
Listing Section	EXTERIOR CLADDING SYSTEMS & COMPONENTS
Report Number	3120682; G100242534; G100584394; G100764736; G100965960; G101699892; G102006248
Spec ID	28296
Verification Test Type	FTIR
Verification Test Type	Cone Calorimeter
Verification Testing	YES

DRAWING INDEX

Design No. CG/CWP 30-01 [Rev. 4]

Design No. CG/CWP 30-02

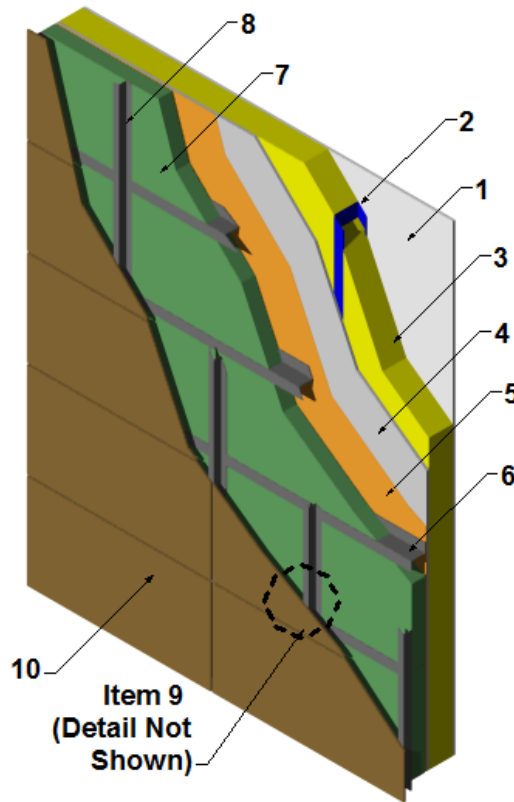
Design No. CG/EF SP-01

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Division 07 – Thermal and Moisture Protection
07 42 00 Wall Panels 07 42 43 Composite Wall Panel

CG/CWP 30-01
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Design Number CG/CWP 30-01
Non-Load Bearing Wall System
Composites Gurea S.A.
Parklex Facade F Panel (6 mm, 8 mm & 10 mm thick)
NFPA 285 (2006)
Rating: Passed



1. INTERIOR CLADDING: Install nominal 5/8 in. thick Type X gypsum board with long dimension perpendicular to steel studs (item 2). Attach to steel studs (Item 2) using Number 6 Type S, 1-1/4 in. long bugle head screws 8 in. on center (oc) around perimeter and 12 in. oc in the field.

- A. JOINT TAPE AND COMPOUND – (Not Shown) vinyl or casein, dry or premixed joint compound applied to face layers of gypsum board (Item 1).

- 1) in two coats to all exposed fastener heads and board joints. A min 2 in. wide paper, plastic, or fiberglass tape is embedded in first layer of compound over joints in gypsum board (Item 1).

2. STEEL STUDS: Min 3-5/8 in., 18 GA, Galvanized steel studs. Max spacing, 24 in. oc. Secure steel studs to 18 GA top and bottom tracks using 7/16 in. long self tapping sheet metal screws.

Date Created: April 19, 2011 (Rev. 7/9/14)
Project No: 100242534-006 (Rev. 4)

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3. **INTERIOR INSULATION:** Install nominal 24 in. wide x 3-1/2 in. thick CertainTeed R-13 unfaced fiberglass insulation in cavities between steel studs (Item 2).
4. **EXTERIOR CLADDING:** Install min. 1/2 in. Type X gypsum sheathing (ASTM C1396 or ASTM C1278) or min. 1/2 in. glass fiber sheathed gypsum board (ASTM C1177 or ASTM C1658), or 1/2 in. concrete panels (ASTM C1186 or ASTM C1325), with long dimension perpendicular to steel studs (item 2). Attach to steel studs (Item 2) using Number 6 Type S, 1-1/4 in. long bugle head screws 8 in. oc around perimeter and 12 in. oc in the field.
 - A. **JOINT TAPE AND COMPOUND –** (Not Shown) vinyl or casein, dry or premixed joint compound applied to face layers of gypsum sheathing (Item 4) in two coats to all exposed fastener heads and board joints. A min. 2 in. wide paper, plastic, or fiberglass tape is embedded in first layer of compound over joints in the exterior gypsum sheathing (Item 4).

NOTE: Items #1 through #4 may be replaced by “code-complying” brick, or masonry construction.

5. **VAPOR BARRIER:** Install nominal 0.26-inch thick VaproShield® Wrapshield SA self adhering breathable membrane over exterior sheathing overlapping a min 4 in. at vertical seams.
6. **ZEE GIRT (Horizontal):** Install nominal 2-1/2 in. x 3-1/2 in. x 1-1/2 in., min. 20 Gage steel zee girt to exterior sheathing. Install using Number 14 x 1-1/2 in. long Hex head screws spaced 24 in. on center through the 2-1/2 in. leg. Overlap lengths a min. of 1 in. Install zee girts spaced 24 in. oc vertically on the wall assembly. Zee girts are installed in conjunction with the exterior insulation (Item 7) in an alternating pattern.

NOTE: Where application of ZEE GIRT is to a substrate of “code-complying” brick or masonry construction, fastening of the ZEE GIRT to the substrate utilizes 1/4 in. shank x min. 1-1/4 in. long “Tapcon-type” concrete anchor screws 24 in. oc through the 2-1/2 in. leg into the brick or masonry construction

7. **EXTERIOR INSULATION:** Install nominal 3-1/2 in. thick x 24 in. wide nominal 4 pcf Roxul CavityRock® DD mineral fiber insulation between zee girt (Item 6). Exterior insulation rests on the 3-1/2 in. leg of zee girt (Item 6). Install zee girt (Item 6) and exterior insulation in alternating pattern up the wall assembly.
8. **ZEE GIRT (Vertical):** Install nominal 1-1/2 in. x 1 in. x 2-1/2 in., min. 20 Gage steel zee girts perpendicular to horizontal zee girts (Item 6) spaced a nominal 24 in. oc. Secure vertical zee girts to horizontal zee girts (Item 6) using Number 14 x 1-1/2 in. long Hex head screws through the 2-1/2 in. leg.
9. **FIRESTOP (Not Shown):** Install nominal 2-1/2 in. x 3-1/2 in. x 1-1/2 in., min 20 GA steel zee girt horizontally nominally 25-1/2 in. above the opening (not shown). Secure to horizontal zee girt (Item 6) using Number 14 x 1-1/2 in. long Hex head screws through the 2-1/2 in. leg spaced 24 in. oc.
10. **CERTIFIED COMPANY:** Composites Gurea S.A.

CERTIFIED PRODUCT: Composite Wall Panels

MODEL: Parklex Facade F Composite Wall Panel

COMPOSITE WALL PANEL: Install nominal 4 ft. x 8 ft. x 6 mm or 8 mm or 10 mm thick Parkex Facade F composite wall panels using min 1-1/4 in. long SFS Intec fasteners (1142001) through pre-drilled holes in the panel. Pre-drilled holes are spaced 21 in. oc around the perimeter and 14 in. oc in the field. Install fasteners through 1 in. leg of zee girt (Item 6).

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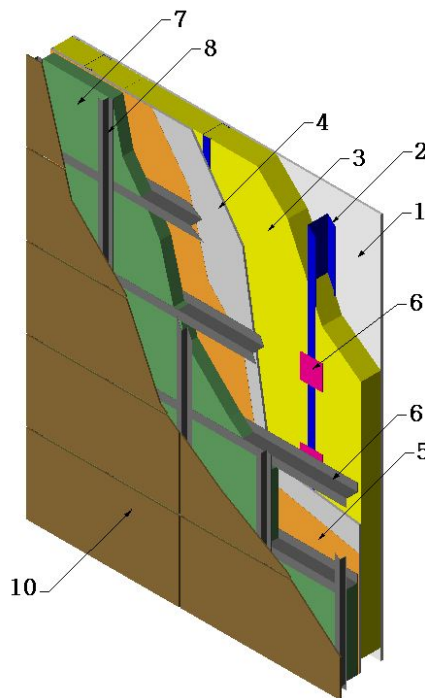
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Design No. CG/CWP 30-02

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Design Number CG/CWP 30-02
Exterior – Non-Load Bearing Wall Assembly
Composites Gurea S.A.
Parklex Façade F Composite Wall (HPL) Panel
NFPA 285 (2012)
Meets Conditions of Acceptance



Concept drawing not to scale

1. INTERIOR CLADDING: On the interior side of the exterior wall assembly, apply one layer of 5/8 in. thick, Type X gypsum board (ASTM C1396) with the long dimension perpendicular to the steel framing (Item 2). Secure using #6 x 1-1/4 in. long, corrosion-resistant, Type S, steel self-piercing tapping screws (ASTM C1002), spaced 8 in. oc around the perimeter and 12 in. oc in the field.

A. JOINT TAPE AND COMPOUND – (Not Shown) Vinyl or casein, dry or premixed joint compound (ASTM C475) applied to face layers of gypsum board (Item 1) in two coats (ASTM C840) to all exposed fastener heads and board joints. A min. 2 in. wide paper, plastic or fiberglass tape (ASTM C475) is embedded in first layer of

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compound over joints in gypsum board (Item 1).

2. **STEEL STUDS:** Min. 3-5/8 in., 18 GA, galvanized steel studs. Max. spacing, 16 in. oc. Secure steel studs to 18 GA top and bottom tracks using 1/2 in. long, S-12, steel drill screws (ASTM C954).

3. **STUD CAVITY INSULATION:** Install nominal 16 in. wide x 3-1/2 in. thick CertainTeed R-13 unfaced fiberglass insulation (ASTM C665, Type I) in cavities between steel studs (Item 2).

- A. **FLOOR LINE CAVITY INSULATION** – (Not Shown) Install 4 in. thick, 8 in. high, 4 pcf mineral wool (ASTM C665, Type I), and friction fit in the stud cavities at the floor lines.

4. **EXTERIOR SHEATHING:** Install one layer of 1/2 in. thick Georgia Pacific DensGlass® Sheathing (ASTM C1177) to the exterior side of the exterior wall assembly (Item 1). Install sheathing with the long dimension perpendicular to the steel framing (Item 2) and secure using #6 x 1-1/4 in. long, corrosion-resistant, Type S, steel self-piercing tapping screws (ASTM C1002), spaced 8 in. oc around the perimeter and 12 in. oc in the field.

- A. **JOINT TAPE AND COMPOUND** – (Not Shown) Vinyl or casein, dry or premixed joint compound (ASTM C475) applied to face layers of gypsum sheathing (Item 4) in two coats (ASTM C840) to all exposed fastener heads and board joints. A min. 2 in. wide paper, plastic or fiberglass tape (ASTM C475) is embedded in first layer of compound over joints in gypsum sheathing (Item 4).

NOTE: Items #1 through #4 may be replaced by "code-complying" brick, or masonry construction.

5. **VAPOR BARRIER:** Install VaproShield® RevealShield™ SA self-adhering membrane vertically over

exterior sheathing (Item #4) side lapping a min. 4 in. at vertical seams.

6. **BRACKETS AND "L" EXTRUSIONS:** Install 5/32 in. thick x 3-9/16 in. wide x 5-1/4 in. high aluminum brackets (not shown) through 5/32 in. thick x 3-9/16 in. wide x 5-1/4 in. high insulator pads (not shown) to the steel studs (Item #2), spaced 24 in. oc vertically and fastened using two #14 x 1-1/2 in. long hex head screws (not shown). Attach 1/8 in. thick x 1-9/16 in. x 2-7/8 in. leg aluminum "L" profiles to the aluminum brackets, to provide horizontal support for the exterior insulation (Item #7) and vertical J-channels and hat channels (Item #8), using two #14 x 1-1/2 in. long Hex head screws.

NOTE: Where application of the brackets (Item #6) is to a substrate of "code-complying" brick or masonry construction, fastening of the brackets to the substrate utilizes 1/4 in. shank x min. 1-1/4 in. long "Tapcon-type" concrete anchor screws 24 in. oc vertically and horizontally into the brick or masonry construction.

7. **EXTERIOR INSULATION:** Install nominal 2-1/2 in. thick x 24 in. wide x 48 in. long 4 pcf Roxul CavityRock® DD mineral fiber insulation (ASTM C665, Type I) friction fit horizontally in between the "L" profiles.

8. **J-CHANNEL AND HAT CHANNEL:** (Vertically) Install nominal 12 GA x 3 in. wide x 1 in. deep x 1-1/8 in. leg., J-channel or nominal 11 GA x 4-1/4 in. wide x 1 in. deep x 1-1/2 in. leg hat channel to "L" extrusions (Item #6). Install using # 7 x 3/4 in. long hex head screws spaced 24 in. oc vertically through the channels into the "L" profiles. Overlap channel lengths a min. of 1 in. Install vertical J-channels and hat channels spaced in accordance with the approved construction drawings.

9. **WINDOW PENETRATION:** (Not Shown) Install 18 GA steel sheet around the perimeter of the window opening spanning from interior to exterior of the

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assembly attached nominally 24 in. oc using # 7 x 3/4 in. long hex head screws to the "L" profiles.

10. CERTIFIED COMPANY: Composites Gurea S.A.

CERTIFIED PRODUCT: Composite Wall Panels

MODEL: Parklex Facade F Composite Wall Panel

COMPOSITE WALL PANEL: Install nominal 4 ft. x 8 ft. x 8 mm thick Parklex

Facade F composite wall panels using min. 1-1/4 in. long Torx (Part #1395850) or Irius (Part #1241462) fasteners through pre-drilled holes in the panel (pre-drilled holes are slightly oversized, spaced 1-1/4 in. to 1-1/2 in. from panel edges, and spaced for fastening nominally 21 in. oc vertically to the perimeter and intermittent vertical J-channels and hat channels (Item #8) in accordance with the construction drawings.

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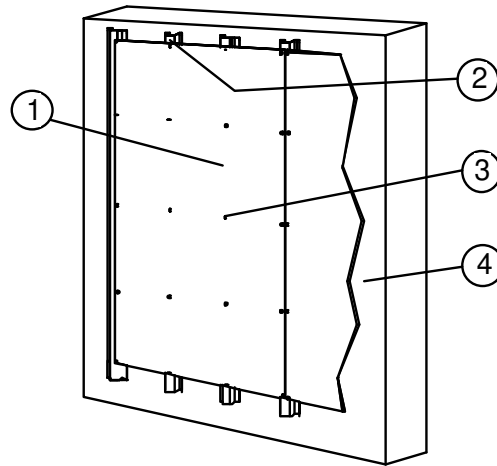
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Design No. CG/EF SP-01

07400 – Roofing and Siding Panels
07430 – Composite Panels

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Composites Gurea
Parklex 1000 (Parklex FACADE) Exterior Siding Panels
Design No. CG/EF SP-01
CAN/ULC S134-92



- CERTIFIED MANUFACTURER:**
Composites Gurea (Spain)

CERTIFIED PRODUCT: Parklex 1000 (Parklex FACADE) Wall System

Exterior Siding Panels - Parklex 1000 (Parklex FACADE) panel is a stratified high-density timber panel for internal and external applications. Parklex panels of the following thicknesses are listed: 8mm, 10mm, 12mm, and 14mm. Panels should be installed with approximately 2mm gap between the adjacent panels on all sides. Panels can be installed vertically or horizontally.
- Galvanized Steel Supports** – 18 GA Grade 33 galvanized steel hat channels installed vertically at 16" (406 mm) OC Spacing, 25 mm minimum depth.
- Self-Drilling Screws** - #12x18mm minimum Stainless Steel Self-Drilling Screws, used at 24" (61 cm) OC minimum spacing.
- Wall Surface Substrate** – Parklex 1000 (Parklex FACADE) panels are listed for installation over the following substrates: Exterior Gypsum Sheathing (12 mm minimum), Fiberglass Sheathed Gypsum Board (12 mm minimum), Concrete Panels, (12 mm minimum) or Masonry Construction.

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