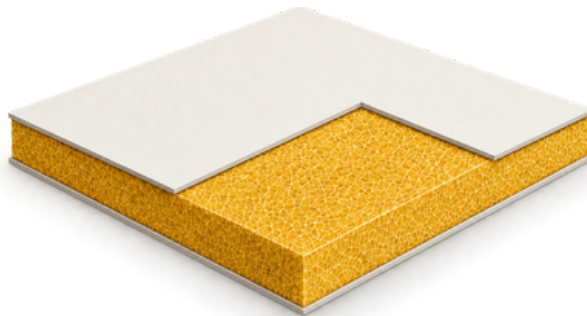


2-INCH COMPOSITE WALL PANEL

Commercial Application | Panel and Connectivity

A PANELIZED COMMERCIAL WALL

This commercial application called for exterior walls in a high-moisture environment. Factory-cut 2-inch composite panels were installed on an engineered steel frame with exterior cladding. Each panel has composite skins bonded to a hydrophobic polyisocyanurate foam core.



BASELINE PANEL INFORMATION

Application	Composite panels on engineered steel with exterior cladding; high-moisture setting
Nominal thickness	2 in (available up to 10 in); max panel size 9 ft x 28 ft
Construction	Composite skins bonded to a hydrophobic polyisocyanurate foam core
Panel area used	1,839 sq ft of CNC-cut panels in this installation
R-value	R-12 (2-inch panel)
Fabrication	CNC-cut shapes and openings from project drawings

CONNECTIONS USED IN THIS APPLICATION

The engineered assembly pairs an adhesive bead with self-drilling screws and washers at the steel frame. Adhesive joins adjoining panel ends. The connection drawings and project dimensions follow on page 2.

A COORDINATED INSTALLATION PACKAGE

Panels for this application were cut, numbered and sequenced for installation. The package coordinated fasteners, adhesive, connection details and installation instructions for field assembly.

TESTING UNDERWAY

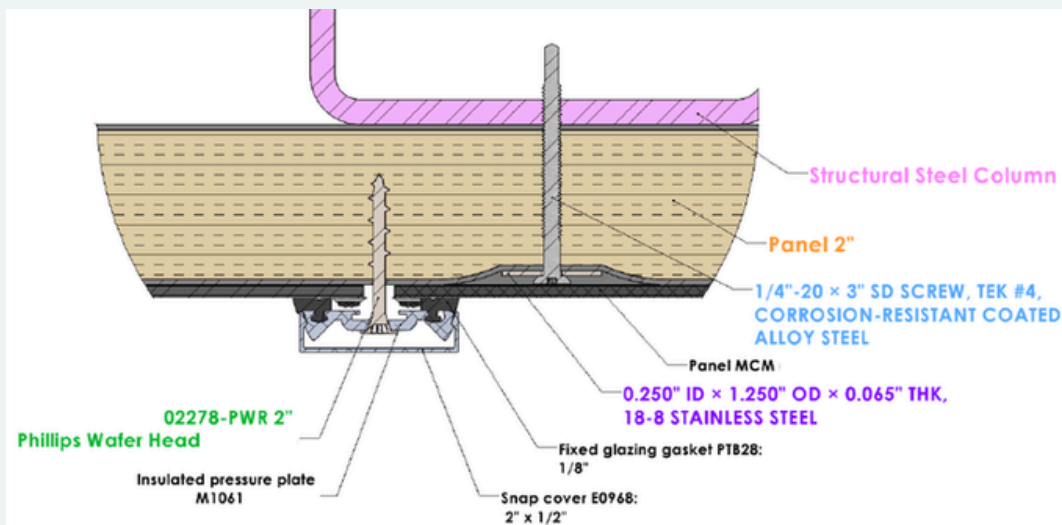
NFPA 286	Interior finish fire performance
ASTM C273	Sandwich core shear properties
ASTM E283 / E331	Assembly air leakage / water penetration

Illustrative commercial application only. Panel and connection details reflect one project and are not standard specifications or installation instructions. The stated R-12 value applies to the 2-inch panel; whole-wall thermal performance depends on the complete assembly. Other listed testing is underway, with no results or code approvals claimed for those tests. Final design, installation and code compliance require project-specific engineering.

HOW THE PANELS CONNECT

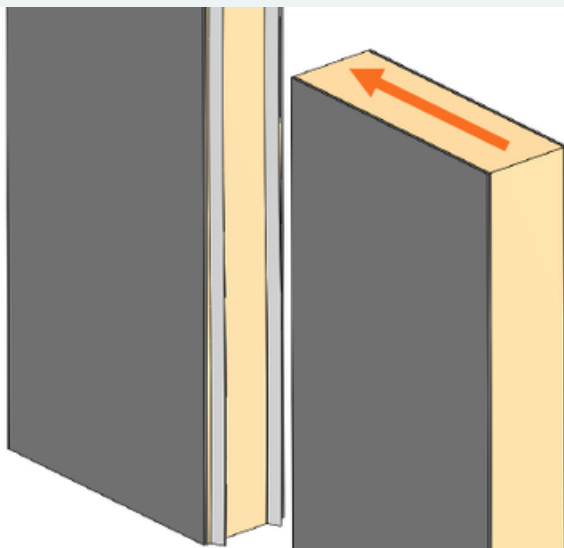
Two illustrated connections from a commercial installation

01 PANEL TO STEEL FRAME & EXTERIOR CLADDING



A continuous adhesive bead bonds the panel to prepared steel. Self-drilling screws and washers provide mechanical attachment.

02 PANEL TO PANEL



A continuous adhesive bead is applied at adjoining panel ends. The exposed polyisocyanurate foam edges are cleaned before the panels are assembled.

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