

OMEGA CI®

TECHNICAL DATA SHEET

PRODUCT: Omega CI
EFFECTIVE: October 17, 2024

Description: Laminators Inc. Omega CI is a rigid insulation panel that consists of a foam plastic core bonded on both sides to a coated glass facer with an additional fire-treated plywood layer on one side. Intended for commercial applications, panels provide continuous insulation (CI) to a building envelope; are available in a range of thicknesses; and can be installed over a variety of substrates and behind select Laminators Inc. panel systems.

Properties:

Thickness	2.1 in (nom), standard
Weight	2.27 psf (+/-), standard
Core	Polyisocyanurate (ISO): Type II, Class 2, Grade 3
Plywood	5/8 in fire-treated

Fire Performance:

Panel ¹ (ASTM E84-16)	Class A Flame Spread Index (FSI) = 20 Smoke Developed Index (SDI) = 15
<ul style="list-style-type: none"> Plywood (30 min test) ² (2018 IBC / 2603.5.4) 	FSI ≤ 25 SDI ≤ 450
<ul style="list-style-type: none"> Core (1.5 in) (2018 IBC / 2603.5.4 / ASTM E84-18a) 	FSI = 20 SDI = 250

Core only ³

Water Absorption (ASTM C209)	< 0.1% volume
Compressive Strength (ASTM D1621)	25 psi (min) (Grade 3)
Dimensional Stability (ASTM D2126)	2% lineal change (7 days)

Go beyond the panel... and go to the next level!

Mold Resistance (ASTM D3273)	Pass (10)
Moisture Vapor Permeance (ASTM E96)	< 1.2 perms (Class III)

Thermal:

Available Thickness (in)	R-Value (hr °F ft ² / BTU) ^{3,4}	U-Value (BTU / hr °F ft ²) ⁵
1.6	6.8	0.147
2.1	9.8	0.102
2.6	12.9	0.078
3.1	16.1	0.062
3.6	19.3	0.052
4.1	22.5	0.044

Fasteners:

Substrate	Available Thickness (in)	Fastener	Length (in) ⁶
Cold-Formed Steel Framing	1.6, 2.1	1/4" DP3 CONCEALOR®	4
	2.6, 3.1		5
	3.6, 4.1		6
Wood Studs	1.6, 2.1, 2.6	1/4" DP3 CONCEALOR	5
	3.1, 3.6		6
	4.1		7
CMU / Concrete	1.6, 2.1, 2.6	1/4" UltraCon® +	4
	3.1, 3.6		5
	4.1		6

Notes:

1. Based on 2.1 in (nom), standard.
2. Based on third-party documentation provided by manufacturer:
 - a. UL Evaluation Report UL ER7002-01
3. Based on third-party documentation provided by manufacturer:
 - a. Hunter Panels Xci Ply (Class A) technical sheet

4. Based on ASTM C518 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus in accordance with ASTM C1289 Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board.
5. U-Values based on 1 / R-Value relationship and rounded to the digit represented.
6. Based on installation over 5/8" exterior-grade gypsum sheathing.