

# OMEGA CI®

## Technical Data Sheet

**PRODUCT:** Omega CI®  
**EFFECTIVE:** March 20, 2020

**Description:** 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 serve as an exterior wall covering to provide continuous insulation (CI) to a building envelope and are available in a range of thicknesses.

**Properties:**

Thickness (standard)	2.1 in (nom), standard
Weight	2.27 psf (+/-), standard
Core	Polyisocyanurate (ISO): Type II, Class 2, Grade 3
Plywood (UL ER7002-01)	5/8 in fire-treated

**Performance:**

Fire Performance (ASTM E84)	Class A (2.1 in) Flame Spread Index (FSI) = 20 Smoke Developed Index (SDI) = 15	
IBC 2603.5.4 (ASTM E84)	Core (1.5 in) FSI = 20, SDI = 250	Plywood (30 min test) FSI = 15, SDI = 30

**Core only**

Compressive Strength (ASTM D1621)	25 psi (min) (Grade 3)
Dimensional Stability (ASTM D2126)	2% lineal change (7 days)
Moisture Vapor Permeance (ASTM E96)	< 1.2 perms (Class III)
Water Absorption (ASTM C209)	< 0.1% volume
Mold Resistance (ASTM D3273)	Pass (10)

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

**Thermal:**

Available Thickness (in)	Thermal Resistance, R-Value (hr °F ft <sup>2</sup> / BTU)	Thermal Transmittance, U-Value (BTU / hr °F ft <sup>2</sup> )
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

Notes:

1. R-Value based on ASTM C518 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus performed by independent laboratory per ASHRAE 90.1-2010.
2. Thermal Transmittance values are determined from the (U-Value = 1 / R-Value) relationship and rounded to the digit represented.

**Fasteners:**

Substrate	Available Thickness (in)	Fastener	Length (in)
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. Fastener length based on accounting for installation over 5/8" exterior-grade gypsum sheathing.