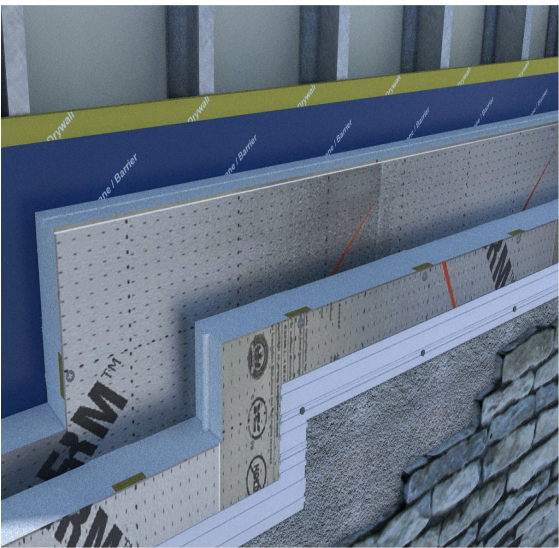


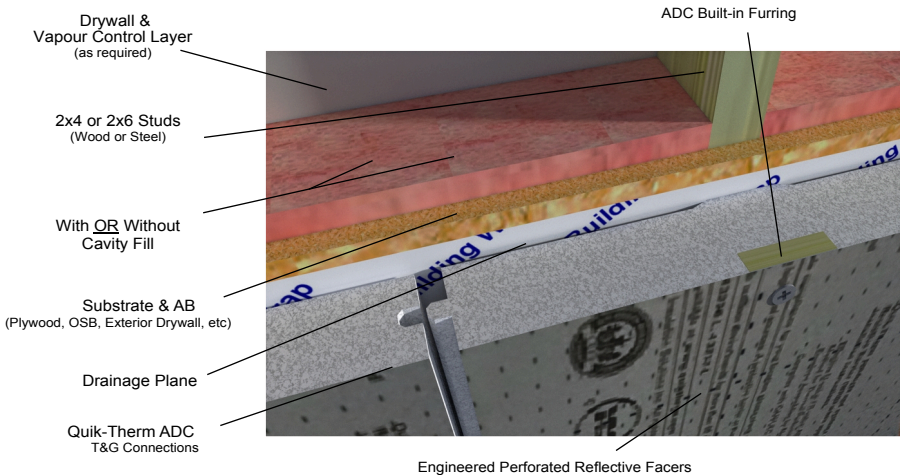
# AIR DRY CONNECT

Continuous Insulation w/ Built-In Furring & Drainage Plane



Quik-Therm (QT) Air Dry Connect (ADC) offers a cost-effective, time-saving alternative to traditional rigid insulation and strapping. QT-ADC features a closed-cell expanded polystyrene (EPS) core, with 3/4" thick x 3" wide plywood furring strips embedded into the foam and sealed with perforated reflective polymer facers. The inboard side includes air drainage planes covering 75% of the sheathing surface, reducing hydrostatic pressure and allowing moisture to dry to the exterior.

This solution simplifies cladding installation on wood, steel, or CMU structures while minimizing thermal bridging and preserving high effective R-values. It also promotes moisture management through outward drying for a more sustainable, energy-efficient wall assembly. For enhanced performance, consider the Matrix System with double layer ADC.



- Plywood (3/4") furring strips spaced 16" or 24" OC.
- Drainage planes on the inboard side of ADC panels promote drying to the outside.
- Perforated reflective polymer facers provide superior vapour management.
- Cut furring and insulation in one pass.
- Tongue & groove connections.
- 4' X 8' Sheets. Thicknesses: 2" to 6"
- Rugged, durable and lightweight. Fast and easy to install.
- Quik-Therm Matrix System, 2+ layers of QT-ADC -- up to 18" thick.



## Morrison Hershfield

"The use of effective R-values when evaluating the thermal resistance of an assembly is preferable to using the nominal R-value of the insulation alone. The benefits of this approach have been demonstrated in results obtained through laboratory tests such as ASTM C1363 and by data published in ASHRAE 90.1. Quik-Therm Insulation Solutions Inc. has undertaken a program of full scale thermal performance testing to ASTM C1363-05 Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus."

- Mark Lawton - Senior Building Scientist

## ASTM C1363 Test Results

Description of Test Samples Starting from Exterior	Overall Thermal Resistance (hr·ft <sup>2</sup> ·F/Btu), R-value (R <sub>u</sub> )
Cement board cladding, 2" Quik-Therm Connect, 7/16" OSB, 2x4 wood studs, empty cavity, 1/2" drywall	13.2
3" Quik-Therm Connect, 3/8" drainage gap, 7/16" OSB, 2x4 wood studs, empty cavity, 3/8" drywall	17
3.5" Quik-Therm, 7/16" OSB, 2x4 wood studs, empty cavity, 1/2" drywall	19.5
Concrete Wall, 6" Quik-Therm, steel framing, empty cavity, 1/2" drywall	29.9
2" Quik-Therm, 7/16" OSB, 2x4 wood studs, R-13 fiberglass batts, 3/8" drywall	23.1
2" Quik-Therm, 7/16" OSB, 2x6 wood studs, R-20 fiberglass batts, 1/2" drywall	28.3
Wood cladding, 3/8" rain screen, 3" Quik-Therm, 2x4 wood studs, R-12 fiberglass batts, 1/2" drywall	29.96

## Quik-Therm Effective Thermal Resistance

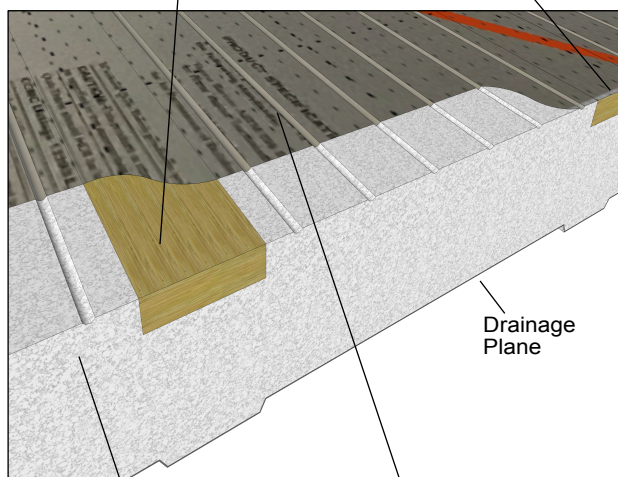
Quik-Therm Thickness	2x4 Wood Frame with R-12 Batt	2x6 Wood Frame with R-20 Batt	Wood Frame Empty Cavity	2x6 Steel Frame with R-20 Batt	Interior Masonry	Exterior Masonry
2"	23	28	13	19	13	10
3"	28	32	17	23	18	15
4"	32	36	21	27	22	19
5"	36	40	25	31	26	23
6"	40	44	29	35	30	27

Nominal R-Value Testing ASTM C-518 = R-4.18 | Steel Framing ASHRAE Table A3.13



Tested By Canadian Accredited Laboratories. Supported By Building Science

ADC Embedded Plywood Furring (3/4" x 3") 16" or 24" OC



Type 2 EPS foam

Engineered Perforated Reflective Facer

Property	Nominal Value	Test Method
Dimensional Stability	1.5	ASTM D2126
Maximum Linear Change, %		
Length Tolerance, mm (in)	±3.2 (±0.125)	—
Width Tolerance, mm (in)	±1.6 (±.063)	—
	Type 2	
Nominal R-Value	4.18	ASTM C518
Nominal Density, pcf (kg/m <sup>3</sup> )	1.4 (23)	ASTM D1622
Compressive Strength, psi (kPa)	136 (19.7)	ASTM 1621-04
Water Vapour Transmission, perms	>1.0 (87)	ASTM E96
Long Term Thermal Resistance	Thermal Resistance Remains Stable Over Life of Service	
Effective R-Value Testing	See Table Above	ASTM C1363
Limiting Oxygen Index	26 %	ASTM D2863-97
Flame Spread	250	CAN/ULC - S102.2
Smoke Developed	410	CAN/ULC - S102.2

Quik-Therm Insulation Solutions Inc.

(888) 735-3012

(204) 736-3012

6" Quik-Therm and fiber cement board siding meets the requirements of CAN/ ULC-S101 as required by Article 3.2.3.8. Test Report: T1035-4 QAI Laboratories.