

# LEED<sup>®</sup> v4 for Building Design and Construction (BD+C) **Credits Guide**

The CavityComplete™ Wood Stud Wall System brings system solutions to the next level. It's a simplified and streamlined solution from five of the most trusted names in the industry. This guide provides information on how the CavityComplete<sup>™</sup> Wall System for Wood Stud with Masonry Veneer contributes to helping achieve LEED® v4 certification.

Finalized in 2013, the LEED® v4 Green Building Rating System is a set of performance standards for certifying the design and construction of commercial, institutional and high-rise multifamily residential buildings, both public and private. The intent is to promote durable, affordable and sustainable materials and processes during the design, construction and operation of the built environment.

This credits guide includes information for New Construction, Core & Shell, Schools, Retail, Data Centers, Warehouse and Distribution Centers, Hospitality and Healthcare.

## Prerequisites and Credits in the LEED<sup>®</sup> v4 Building Design and Construction

The LEED® v4 Rating System addresses the following Categories: • Integrative Project Planning and

Design or Integrative Process

• Location and Transportation (LT)

Sustainable Sites (SS)

• Water Efficiency (WE)

- Energy and Atmosphere (EA)
- Materials & Resources (MR)
- Indoor Environmental Quality (EQ)
- Innovation (IN)
  - Regional Priority (RP)

Prerequisites and Credits for each of the categories covered in the LEED® Rating System for each building type are project rather than product focused. Therefore it is the cumulative effect of products integrated within building systems and assemblies and evaluated within the parameters of each of the topics that contribute to the "points" a project accrues during the certification process.

#### LEED<sup>®</sup> v4 for Building Design and Construction (BD+C) Credits Guide for CavityComplete™ Framed Walls - Wood Stud

Product lists and credit contribution by construction type is featured below. The key details the qualifying construction type(s) for each credit.

KEY			EA		MR		EQ				
ALL A B C D	Qualifies for ALL construction categories New Construction & Major Renovations Core and Shell Development Schools Retail	E F H	Data Centers Warehouse and Distribution Centers Hospitality Healthcare	Minimum Energy Performance	Optimize Energy Performance	Building Product disclosure and Optimization - Environmental Product declarations	Building Product disclosure and Optimization - Sourcing of Raw Materials	Minimum Acoustical Performance	Low-Emitting Materials	Thermal Comfort	Acoustic Performance
Prerequisite								EQp3			
Credit Number					EAc2	MRc2	MRc3		EQc2	EQc5	EQc9
Insulation Products											
Owens Corning <sup>®</sup> PROPINK <sup>®</sup> EcoTouch <sup>®</sup> Fiberglas <sup>™</sup> Insulation Thermal Batts & Rolls with PureFiber <sup>®</sup> Technology, and EcoTouch <sup>®</sup> Flame Spread 25 Insulation with PureFiber <sup>®</sup> Technology			ALL	ALL	ALL	ALL	С	ALL	ALL	ACEFGH	
Owens Corning® FOAMULAR® XPS 250 Commercial Insulation				ALL	ALL	ALL	ALL	С	ALL	ALL	ACEFGH
Fasteners											
Heckmann Pos-I-Tie® anchors for wood stud with ThermalClip® and Pintle Wire Tie			ALL	ALL		ALL	С		ALL	ACEFGH	
Rodenhouse Thermal-Grip® ci prong washers w/ Grip-Deck® screws and Thermal-Grip® brick-tie washers (for use with Pos-I-Tie® veneer anchors) to attach FOAMULAR® XPS			ALL	ALL			С		ALL	ACEFGH	
Air/Water Barrier, Drainage Plane											
Mortar Net Solutions® MortarNet® with insect barrier mortar dropping collection device			ALL	ALL		ALL	С		ALL	ACEFGH	
Mortar Net Solutions® TotalFlash® unitized flashing system			ALL	ALL			С		ALL	ACEFGH	
Mortar Net Solutions® CompleteFlash® for corners and end dams				ALL	ALL			С		ALL	ACEFGH
Mortar Net Solutions® MPE-1 Sealant, flashing sealant				ALL	ALL			С		ALL	ACEFGH
Mortar Net Solutions® WeepVent, masonry weep opening				ALL	ALL		ALL	С		ALL	ACEFGH
Tremco ExoAir® 230 Vapor-Permeable Air/Water Barrier				ALL	ALL			С	ALL	ALL	ACEFGH
Tremco Dymonic® 100 Sealant				ALL	ALL			С	ALL	ALL	ACEFGH

The products listed contribute to meeting requirements of the LEED® Rating system in the categories identified, however, the use of these products does not guarantee attainment of points or prerequisite compliance, nor are any products certified under the LEED® brand. Call 1-800-GET-PINK® to learn more about achieving LEED® certification.



# EA Energy and Atmosphere Credits

#### EAp2 and EAc2 Minimum and Optimized Energy Performance

The CavityComplete<sup>™</sup> Wood Stud Wall System, which includes all of the components and details, provides a fully tested wall insulation and air barrier system that demonstrates compliance with national energy codes for all climates and provides multiple insulation levels for cavity and continuous insulation design options to meet higher performance energy efficieny targets and can contribute to meeting energy performance critera in this category.

## **MR Materials and Resources Credits**

#### MRc2 and MRc3 Product disclosure and optimization

Individual components of the CavityComplete<sup>™</sup> Wood Stud Wall System can contribute to meeting MR credits where noted on the above matrix.

• Owens Corning<sup>®</sup> insulation products listed have Environmental Product Declarations (EPDs).

As listed below, several components have recycled content levels:

- Owens Corning<sup>®</sup> faced PROPINK<sup>®</sup> EcoTouch<sup>®</sup> Fiberglas<sup>™</sup> Insulation contains a minimum 55% recycled content, certified by Scientific Certification Systems (37% post consumer, 18% preconsumer content)
- Owens Corning<sup>®</sup> unfaced PROPINK<sup>®</sup> EcoTouch<sup>®</sup> Fiberglas<sup>™</sup> Insulation contains a minimum 65% recycled content, certified by Scientific Certification Systems (47% post consumer, 18% preconsumer content)
- Owens Corning<sup>®</sup> FOAMULAR<sup>®</sup> XPS 250 Commercial Insulation contains a minimum 20% recycled content, certified by Scientific Certification Systems (all pre-consumer)
- Heckmann Pos-I-Tie<sup>®</sup> anchors for wood stud with ThermalClip<sup>™</sup> and Pintle Wire Tie contains 65% recycled content (45% post consumer, 20% pre consumer)
- Mortar Net Solutions<sup>®</sup> MortarNet<sup>®</sup> with insect barrier mortar dropping collection device -- MortarNet<sup>®</sup> 2.0" is 20% post consumer recycled content; MortarNet<sup>®</sup> 1.0" is 40% pre consumer recycled content.
- Mortar Net Solutions<sup>®</sup> WeepVent contains a minimum 50% recycled content (17% post consumer, 33% pre consumer)

## **EQp3 Acoustic Performance**

#### EQp3 Minimum Acoustic performance for Schools EQc9 Design classrooms or workspaces with effective acoustic controls

The CavityComplete<sup>™</sup> Wood Stud Wall System with its mass, insulation components and continuous air space is well suited to reduce sound transmission. These characteristics make the CavityComplete<sup>™</sup> Wood Stud Wall System effective at resisting the passage of noise commonly in the range of speech, typically measured by the Sound Transmission Class (STC), and lower frequency outdoor noise sources typically measured by the Outdoor-Indoor Transmission Class (OITC). The CavityComplete<sup>™</sup> Wood Stud Wall System is estimated to achieve STC and OITC ratings in the range of >60.

#### EQ Low Emitting Materials EQc2

The following components carry the GreenGuard GOLD Certification for low emitting materials:

- Owens Corning<sup>®</sup> PROPINK<sup>®</sup> EcoTouch<sup>®</sup> Fiberglas<sup>™</sup> Insulation Thermal Batts & Rolls with PureFiber<sup>®</sup> Technology, and EcoTouch<sup>®</sup> Flame Spread 25 Insulation with PureFiber<sup>®</sup> Technology
- Owens Corning<sup>®</sup> FOAMULAR<sup>®</sup> XPS 250 Commercial Insulation
- Tremco ExoAir® 230 Vapor-Permeable Air/Water Barrier
- Tremco Dymonic<sup>®</sup> 100 Sealant

### EQ Thermal comfort design

Design heating, ventilating, and air-conditioning (HVAC) systems and the building envelope to meet the requirements of ASHRAE Standard 55–2010, Thermal Comfort Conditions for Human Occupancy, with errata or a local equivalent.

The CavityComplete<sup>™</sup> Wood Stud Wall System, which includes all of the components and details, provides a fully tested wall insulation and air barrier system that demonstrates compliance with national energy codes for all climates. and provides multiple insulation levels for cavity and continuous insulation design options to meet higher performance energy efficieny targets. It can contribute to meeting the building envelope design criteria neccessary to meet ASHRAE Standard 55-2010, Thermal Comfort Conditions for Human Occupancy.

The CavityComplete™ Wood Stud Wall System excludes the masonry veneer, wood studs, interior gypsum board and exterior sheathing. A detailed list of the components is available at www.CavityComplete.com.

### CavityComplete.com | 844-CAV-COMP

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