LEED® 2009
Credits Guide

The CavityComplete™ 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™ Wall System for Steel Stud with Masonry Veneer contributes to helping achieve LEED® 2009 certification.

The LEED® 2009 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 and construction of the built environment. This guide covers the rating system for New Construction & Major Renovations, Core & Shell Development, Schools, Retail and Healthcare.

Prerequisites and Credits in the LEED® 2009 Green Building Rating System address Seven Topics in addition to Pilot Credits:

- Sustainable Sites (SS)
- Water Efficiency (WE)
- Energy & Atmosphere (EA)
- Materials & Resources (MR)
- Indoor Environmental Quality (EQ)
- Innovation & Design Process (ID)
- Regional Priority (RP)

Prerequisites and Credits for each of the Seven Topics 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.

CavityComplete™ products and credit contributions by construction type are featured below. The key details the qualifying construction type(s) for each credit.

KEY
Code	Description
ALL	Qualifies for ALL construction categories
A	New Construction & Major Renovations
B	Core and Shell Development
C	Schools
D	Retail
E	Healthcare

	EA		MR			EQ						
	Minimum Energy Performance	Optimize Energy Performance	Sustainably sourced materials and products	Recycled Content[1]	Regional Materials	Low-Emitting Materials	Low-Emitting Materials — Adhesives and Sealants	Thermal Comfort	Thermal Comfort	Acoustic Environment	Enhanced Acoustical Performance	Mold Prevention
Prerequisite	EAp2											
Credit		EAc1	MRc3	MRc4	MRc5	EQc4	EQc4.1	EQc7	EQc7.1	EQc2	EQc9	EQc10
Insulation Products												
Owens Corning™ FOAMULAR® 250 Extruded Polystyrene (XPS) Rigid Foam Insulation	ALL	ALL	E	ABCD	ABCD	CE	ABD	B	ACDE	E	C	C
Owens Corning™ EcoTouch® PINK® FIBERGLAS™ Insulation (unfaced), and EcoTouch® Flame Spread 25 Insulation (faced)	ALL	ALL	E	ABCD	ABCD	CE	ABD	B	ACDE	E	C	C
Owens Corning™ Thermafiber® Safing Mineral Wool Insulation	ALL	ALL		ABCD	ABCD			B	ACDE	E	C	C
Fasteners												
Heckmann Building Products Pos-I-Tie® Masonry Veneer Anchoring System with ThermalClip® and Pintle Wire Tie	ALL	ALL		ABCD	ABCD			B	ACDE	E	C	C
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			ABCD			B	ACDE	E	C	C
Air/Water Barrier, Drainage Plane												
Tremco® ExoAir® 230 Vapor-Permeable Air/Water Barrier	ALL	ALL	E		ABCD	CE	ABD	B	ACDE	E	C	C
Tremco® Dymonic® 100 Sealant	ALL	ALL	E		ABCD	CE	ABD	B	ACDE	E	C	C
Mortar Net Solutions™ TotalFlash® unitized flashing system with Tremco® ExoAir® TWF flashing membrane	ALL	ALL			ABCD			B	ACDE	E	C	C
Mortar Net Solutions™ MortarNet® with Insect Barrier™ mortar dropping collection device	ALL	ALL		ABCD	ABCD			B	ACDE	E	C	C

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. This guide considers the contribution to credit achievement of the products working together as a system, except for the MR and EQ low emitting credits, where specific product components are noted as contributors to the credit. Call 1-844-CAV-COMP to learn more about achieving LEED® certification.

EA Energy and Atmosphere Credits
EAp2 and EAc1 Minimum and Optimized Energy Performance
The CavityComplete™ Wall System provides a completely tested wall insulation, water management and air barrier system. It complies with national energy codes for all climates and provides multiple insulation levels for cavity and continuous insulation design options to meet higher performance energy efficiency targets and can contribute to meeting energy performance criteria in this category.

MR Materials and Resources Credits
Individual components of the CavityComplete™ Wall System can contribute to meeting MR credits where noted on the product credits table.

MRc3 for Healthcare, Sustainably sourced materials and products addresses recycled content or regionally sourced materials AND low emitting materials for wall systems

- Owens Corning™ FOAMULAR® 250 XPS Rigid Foam Insulation contains a minimum 20% recycled content, certified by Scientific Certification Systems (all pre-consumer) and is GREENGUARD Gold Certified
- Owens Corning™ EcoTouch® Flame Spread 25 (faced) Insulation contains a minimum 58% recycled content, certified by Scientific Certification Systems (36% post consumer, 22% preconsumer content) and is GREENGUARD Gold Certified
- Owens Corning™ EcoTouch® PINK® FIBERGLAS™ Insulation (unfaced) contains a minimum 65% recycled content, certified by Scientific Certification Systems (41% post consumer, 24% preconsumer content) and is GREENGUARD Gold Certified
- Tremco® ExoAir® 230 Vapor-Permeable Air/Water Barrier may be regionally sourced depending on project location and is GREENGUARD Gold Certified
- Tremco® Dymonic® 100 Sealant may be regionally sourced depending on project location and is GREENGUARD Gold Certified

MRc4 addresses recycled content in the product
- Owens Corning™ FOAMULAR® 250 XPS Rigid Foam Insulation contains a minimum 20% recycled content, certified by Scientific Certification Systems (all pre-consumer)
- Owens Corning™ EcoTouch® Flame Spread 25 (faced) Insulation contains a minimum 58% recycled content, certified by Scientific Certification Systems (36% post consumer, 22% preconsumer content)
- Owens Corning™ EcoTouch® PINK® FIBERGLAS™ Insulation (unfaced) contains a minimum 65% recycled content, certified by Scientific Certification Systems (41% post consumer, 24% preconsumer content)
- Owens Corning™ Thermafiber® Mineral Wool Insulation contains a minimum 70% recycled content, certified by Scientific Certification Systems (all pre-consumer)

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

- Heckmann Building Products Pos-I-Tie® Masonry Veneer Anchoring System with ThermalClip® and Pintle Wire Tie contains 65% recycled content (45% post consumer, 20% pre-consumer)
- Mortar Net Solutions™ MortarNet® with insect barrier mortar dropping collection device — MortarNet® 2.0" is 20% post consumer recycled content; MortarNet® 1.0" is 40% pre-consumer recycled content.

MRc3 (non Healthcare) addresses regionally sourced materials within 500 miles of the project
Call 1-844-CAV-COMP for regional material source information

EQ Indoor Environmental Quality
EQc4 and EQc4.1 Low Emitting Materials
The following components carry the GREENGUARD Gold Certification for low emitting materials:

- Owens Corning™ FOAMULAR® 250 XPS Rigid Foam Insulation
- Owens Corning™ EcoTouch® PINK® FIBERGLAS™ Insulation and EcoTouch® Flame Spread 25 Insulation
- Tremco® ExoAir® 230 Vapor-Permeable Air/Water Barrier
- Tremco® Dymonic® 100 Sealant

EQc7 and EQc7.1 Thermal Comfort
The CavityComplete™ Wall System provides a completely tested wall insulation, water management and air barrier system that complies with national energy codes for all climates and provides multiple insulation levels for cavity and continuous insulation design options to meet higher performance energy efficiency targets. It can contribute to meeting the building envelope design criteria necessary to meet ASHRAE Standard 55-2004, Thermal Comfort Conditions for Human Occupancy.

EQc2 Acoustic design to 2010 FGI Guidelines for Healthcare and EQc9 Enhanced acoustic control in schools to meet ANSI Standard S12.60-2002
The CavityComplete™ Wall System with its mass, insulation components and continuous air space is well suited to reduce sound transmission. These characteristics make the CavityComplete™ 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™ Wall System for Steel Stud with Masonry Veneer is estimated to achieve STC and OITC ratings in the range of >45 to >60, depending on wall system details.

EQc10 reduce the potential presence of mold in Schools
The CavityComplete™ Wall System can contribute to this credit as it is tested and shown to be both an air and weather resistive barrier as a first line of defense from moisture intrusion which can lead to mold growth.

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