# LEED® v4 for Building Design and Construction

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.

The Rating System includes guides for New Construction, Core & Shell, Schools, Retail, Data Centers, Warehouse and Distribution Centers, Hospitality and Healthcare.

## Prerequisites and Credits in the LEED® v4 Building Design and Construction Rating System address 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® for Building Design and Construction (BD+C).

Buildings that are new construction or major renovation. In addition, at least 60% of the project's gross floor area must be complete by the time of certification (except for LEED® BD+C: Core and Shell).

## Building Types

**New Construction and Major Renovations.** New construction or major renovation of buildings that do not primarily serve K-12 educational, retail, data centers, warehouses and distribution centers, hospitality, or healthcare uses. New construction also includes high-rise residential buildings 9 stories or more.

**Core and Shell Development.** Buildings that are new construction or major renovation for the exterior shell and core mechanical, electrical, and plumbing units, but not a complete interior fit-out. LEED® BD+C: Core and Shell is the appropriate rating system to use if more than 40% of the gross floor area is incomplete at the time of certification.

**Schools.** Buildings made up of core and ancillary learning spaces on K-12 school grounds. LEED® BD+C: Schools may optionally be used for higher education and non-academic buildings on school campuses.

**Retail.** Buildings used to conduct the retail sale of consumer product goods. Includes both direct customer service areas (showroom) and preparation or storage areas that support customer service.

**Data Centers.** Buildings specifically designed and equipped to meet the needs of high density computing equipment such as server racks, used for data storage and processing. LEED® BD+C: Data Centers only addresses whole building data centers (greater than 60%).

**Warehouses and Distribution Centers.** Buildings used to store goods, manufactured products, merchandise, raw materials, or personal belongings, such as self-storage.

**Hospitality.** Buildings dedicated to hotels, motels, inns, or other businesses within the service industry that provide transitional or short-term lodging with or without food.

**Healthcare.** Buildings that serve individuals who seek medical treatment, including licensed and federal inpatient care facilities, licensed and federal outpatient care facilities, and licensed and federal long-term care facilities. May optionally be used for buildings with other kinds of medically-related uses, such as unlicensed outpatient facilities, medical, dental and veterinary offices and clinics, assisted living facilities and medical education & research centers.

# Commercial, Institutional and High-Rise Residential Buildings

# LEED® v4 for Building Design and Construction (BD+C) Credits Guide for Owens Corning® Products

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

## KEY

- **ALL** Qualifies for ALL construction categories
- **A** New Construction & Major Renovations
- **B** Core and Shell Development
- **C** Schools
- **D** Retail
- **E** Data Centers
- **F** Warehouses and Distribution Centers
- **G** Hospitality
- **H** Healthcare

The Owens Corning® 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 how Owens Corning™ products can help you achieve LEED® certification.

| Product | SS — Heat Island Reduction (SSc5) | EA — Minimum Energy Performance (Prereq EAp2) | EA — Optimize Energy Performance (EAc2) | MR — Building Life-Cycle Impact Reduction (MRc1) | MR — BPDO – Environmental Product Declarations (MRc2) | MR — BPDO – Sourcing of Raw Materials (MRc3) | MR — BPDO – Material Ingredients (MRc4) | MR — Construction and Demolition Waste Management (MRc5) | EQ — Minimum Acoustical Performance (Prereq EQp3) | EQ — Low-Emitting Materials (EQc2) | EQ — Thermal Comfort (EQc5) | EQ — Acoustic Performance (EQc9) |
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| **Insulating Products** | | | | | | | | | | | | |
| **FIBERGLAS® Blanket Insulation** | | | | | | | | | | | | |
| EcoTouch® PINK® FIBERGLAS® Insulation with PureFiber® Technology | | ALL | ALL | | ALL | ALL | | C | | ALL | ALL | ACEFGH |
| **FIBERGLAS® Loosefill Insulation** | | | | | | | | | | | | |
| PROPINK® Loosefill Insulation, AttiCat® Expanding Blown-In Loosefill Insulation | | ALL | ALL | | ALL | ALL | ALL | C | | ALL | ALL | ACEFGH |
| **FIBERGLAS® Rigid and Semi-Rigid Insulation** | | | | | | | | | | | | |
| FIBERGLAS® 700 Series | | ALL | ALL | | ALL | ALL | | | | | | |
| EcoTouch® RA Series | | ALL | ALL | | | ALL | | | | | | |
| FIBERGLAS® Insul-Quick® Insulation, FIBERGLAS® TIW Type I and Type II, FIBERGLAS® SCR Board, Curtain Wall (CW-225) Insulation | | ALL | ALL | | | ALL | | | | | | |
| **FIBERGLAS® Acoustic Insulation** | | | | | | | | | | | | |
| QuietZone® Acoustic Batts | | | | | ALL | ALL | | C | | ALL | | ACEFGH |
| **Acoustic Wall, Floor and Ceiling Finishes** | | | | | | | | | | | | |
| QuietZone® Acoustic Floor Mat | | | | | | | | C | | ALL | | ACEFGH |
| SelectSound® Black Acoustic Board Insulation, SelectSound® Black Acoustic Blanket Insulation | | | | | | ALL | | C | | ALL | | ACEFGH |
| **Mineral Wool Insulation** | | | | | | | | | | | | |
| Thermafiber® Insulation, SAFB™, FireSpan®, Safing, UltraBatt™, VersaBoard®, and RainBarrier® | | ALL | ALL | ALL | | ALL | ALL | C | | | ALL | ACEFGH |
| **Extruded Polystyrene (XPS) Insulation and Accessories** | | | | | | | | | | | | |
| FOAMULAR® Extruded Polystyrene Rigid Insulation Including: Cel-Lok®, Cel-Drain®, C-200, C-300, 350, CodeBord®, 400/600/1000 High Density, Gridboard | | ALL | ALL | ALL | ALL | ALL | | ALL | | ALL | ALL | |
| FOAMULAR® Extruded Polystyrene Rigid Insulation: Commercial Roofing for Vegitative Roofs: 350 | ALL | ALL | ALL | ALL | ALL | ALL | | ALL | | ALL | ALL | |
| FOAMULAR® XPS Commercial Insulation Products: Including InsulPink® | | ALL | ALL | ALL | ALL | ALL | | ALL | | ALL | ALL | |
| JointSealR®, FlashSealR®, FoamSealR™ | | ALL | ALL | | | | | | | | | |
| **HVAC Insulation** | | | | | | | | | | | | |
| QuietR® Duct Liner Board, QuietR® Rotary Duct Liner, QuietZone® Spiral Duct Liner | | ALL | ALL | | | ALL | | C | | ALL | | ACEFGH |
| QuietR® Duct Board and EcoTouch® Insulation for Flexible Ducts | | ALL | ALL | | ALL | ALL | | C | | ALL | | ACEFGH |
| SoftR® Duct Wrap | | ALL | ALL | | ALL | ALL | | | | ALL | | |
| **Pipe and Equipment Insulation** | | | | | | | | | | | | |
| FIBERGLAS® Pipe Insulation (ASJ Max with SSL Max; ASJ with SSLII®), VaporWick® Pipe Insulation | | ALL | ALL | | ALL | ALL | | | | ALL | | |
| FIBERGLAS® "No Wrap" Pipe Insulation | | ALL | ALL | | ALL | ALL | | | | | | |
| FIBERGLAS® Pipe and Tank Insulation | | ALL | ALL | | | ALL | | | | | | |
| **Metal Building Insulation** | | | | | | | | | | | | |
| EcoTouch® Insulation for Certified R Metal Building, EcoTouch® Insulation for Metal Building Utility Blanket, EcoTouch® Insulation for MBI Plus Metal Building | | ALL | ALL | | ALL | ALL | | C | | ALL | ALL | |
| **Roofing & Asphalt Products** | | | | | | | | | | | | |
| **Shingles:** TruDefinition® Duration®, TruDefinition® Duration® Designer Colour Collection, Oakridge®, Supreme™, [1,2,3] | | | | | ALL | | | | | ALL | | |
| **Shingles:** Berkshire®, Woodmoor® & Woodcrest® | | | | | | | | | | ALL | | |
| **Accessory Products:** WeatherLock® Ice & Water Barrier Products | | | | | | | | | | | | |

[1] May not be available for all manufacturing locations  [2] May not be available for all construction job locations  [3] Available in specific markets