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May 28, 2020

Guidance Documentation for LEED v4

PRODUCT DESCRIPTION

BASF Canada (BASF) WALLTITE® CM01 Spray Polyurethane Foam (SPF) Insulation

MATERIALS AND RESOURCES

MRc2 - Environmental Product Declaration – Option 1 EPDs (1 Point Potential):

Industry-wide (generic) EPD available for SPF via the Spray Polyurethane Foam Alliance – Products with third-party certification (Type III), including external verification, in which the manufacturer is explicitly recognized as a participant by the program operator are valued as one half (1/2) of a product for purposes of credit achievement calculation.

ASTM EPD-085

https://www.astm.org/CERTIFICATION/DOCS/415.EPD_for_SPFA-EPD-20181029-HFO.pdf

SPF Life Cycle Assessment

http://www.sprayfoam.org/files/docs/tech-docs/SPFA_EP_D_Background_Report_10_29_2018.pdf

Regional Materials

Spray applied polyurethane foam insulation is considered to be manufactured on site because the final product is not manufactured at a factory. The resin and isocyanate components of the product are shipped to the construction site where they are combined at an approximate 1 to 1 ratio to make WALLTITE polyurethane foam insulation.

The isocyanate is manufactured in Louisiana, US and can be shipped by train to BASF facilities in Cornwall, Ontario, Blackie, AB, and Wyandotte, MI and then shipped by tanker truck to our insulation contractors. The isocyanate is also shipped in drums by truck directly to our customers in Canada.

The resin used to make WALLTITE contains the following materials:

- Polyols, more than 70% of the resin– shipped via tanker truck from Texas
- Blowing agent, more than 10% of the resin– shipped via tanker truck from Illinois
- Fire retardant, less than 20% of the resin – shipped in bulk by truck from West Virginia
- Catalysts and surfactants, remaining difference – shipped in drums from New Jersey

INDOOR ENVIRONMENTAL QUALITY

EQc2 – Low Emitting Materials (1-3 Points Potential)

General emissions evaluation. Building products must be tested and determined compliant in accordance with California Department of Public Health (CDPH) Standard Method v1.1-2010 using the applicable exposure scenario.

BASF WALLTITE® CM01 (Information can be found on the SDS) has 0 g/L emissions and meets the requirements of CA Section 01350 for VOC emissions and formaldehyde. BASF WALLTITE® CM01 has a TVOC of 0.5 mg/m³ or less.

EQc5 – Thermal Comfort

WALLTITE allows the building envelope to be designed in such a way as to provide a thermally comfortable environment that supports the productivity and well-being of occupants.

ENERGY & ATMOSPHERE

EAc2 – Optimize Energy Performance

BASF WALLTITE® CM01 has a Long Term Thermal Resistance (LTTR) value of 5.24 per inch. Additional thermal performance has been documented through studies and with the use of calculators and modeling that demonstrates additional energy savings with additional SPF thicknesses and as the product is seamless and self-adhered forming an air seal without thermal breaks.