

A/D FIRE PROTECTION SYSTEMS

part of the **Carboline**® Company

PRODUCT DATA – for LEED Green Building Rating System®

Background:

A/D products can contribute towards 21 points under the LEED Green Building Rating System®. The LEED Green Building Rating System® does not certify construction products or materials. Instead, entire projects are certified on the basis of overall design and in consideration of the environmental impact of the building materials employed. This data sheet provides environmental properties, so that A/D products can be evaluated under the LEED Green Building Rating System®.

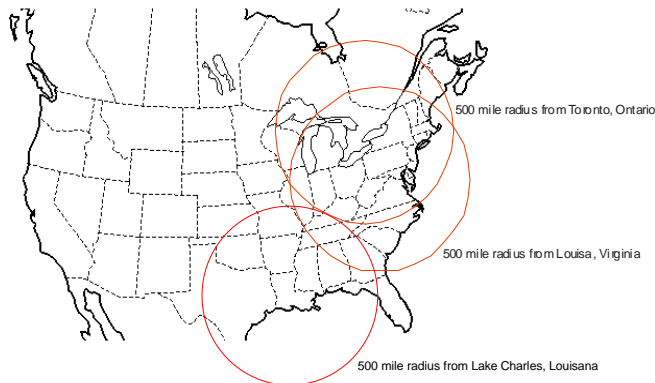
Table of Applicable LEED Points

LEED Points	LEED Requirements	Applicable A/D Product	LEED Guide Reference
1	Building materials manufactured within 500 miles of the project site.	All	MR Credit 5.1
10	Building achieves a high level of energy performance.	A/D Type FP A/D Type I	EA Credit 1
3	Renovation projects maintain existing building elements.	All	MR Credit 1.1, 1.2 and 1.3
2	Building materials contain recycled content.	A/D Type FP A/D Thermal Barrier A/D FIREBARRER Mineral Wool A/D FIREBARRIER Pillows A/D Type 5GP, 5MD, 5EF	MR Credit 4.1 and 4.2
2	Low Volatile Organic Compound (VOC) content.	All	EQ Credit 4.1 and 4.2
1	Raw materials supplied within 500 miles of the manufacturing site.	All	MR Credit 5.2
2	Divert Construction Waste from Disposal	All	MR Credit 2.1 and 2.2

1 Points – LEED MR Credit 5.1.

Building materials manufactured within 500 miles of the project site.

A/D and Carboline products are manufactured at our facilities in Toronto, Ontario, Louisa, Virginia and/or Lake Charles, LA. Your Carboline Technical Sales Representative can determine at which facility a product batch was manufactured.



10 Points – LEED EA Credit 1

Building achieves a high level of energy performance.

A/D Type FP sprayed fire resistive material and A/D Type I sprayed insulation can provide a thermal insulation value of R4 per applied inch, which is greater than the R-value achieved by most other fireproofing products. The use of A/D Type FP or A/D Type I can contribute towards the energy performance design of a building.

2 Points – LEED MR Credit 2.1 and 2.2

Wooden shipping pallets and some product packaging such as plastic buckets can be returned to A/D for reuse, contributing to the percentage of construction waste diverted from disposal.

3 Points – LEED MR Credit 1.1, 1.2 and 1.3

Renovation Projects Maintain Existing Building Elements

A/D Fire Protection Systems' products are ideal in fire performance retrofit/upgrade situations, where existing, unrated building elements are required to be fire-rated under modern building codes. Wooden floor assemblies, cast iron structural columns, and other existing building elements can be upgraded to meet modern fire rating, firestopping and thermal insulation requirements, rather than being replaced during building renovation projects.

5 Points and 1 Prerequisite

The following table outlines product data required for the application of LEED Credits MR 4.1, MR 4.2, MR 5.2, EQ 4.1, EQ 4.2, and EQ Prerequisite 1.

Table of Environmental Data – A/D Fire Protection Systems Products

Product	% Regionally Supplied Raw Materials (MR Credit 5.2) ^a	% Recycled Content (MR Credits 4.1 and 4.2) ^b	VOC Content (EQ Credits EQ 4.1, EQ 4.2 and Prerequisite 1). lbs / gal US (g/L) ^c
A/D Type FP and Thermal Barrier	100 %	15 %	None.
Southwest Fireproofing™ Type 5GP™, 5MD™, 5EF™	99 %	26.5 %	None.
Southwest Fireproofing™ Type 7 GP™, 7HD™ and 7TB™	99 %	2.6% - 4.4%	None.
A/D Type 1XR	99 %	0	None.
A/D FIREFILM® III	53 %	0	0.17 (20)
THERMO-SORB	43 %	0	2.87 (344)
Thermo-Lag 3000P, SP, A, SA	41, 41, 41, 41 %	0, 0, 0, 0	0.11 (13), 0.53 (64), 0.11 (13), 0.53 (64)
A/D COLORCOAT®	100 %	0	2.69 (323)
A/D Type I	100 %	15 %	None.
A/D FIREBARRIER Silicone	88 %	0	0.69 (83)
A/D FIREBARRIER Silicone SL	88 %	0	0.5 (60)
A/D FIREBARRIER Intumescent Caulk	98 %	0	0.4 (42)
A/D FIREBARRIER Intumescent Sealant	TBD	0	0.13 (16)
A/D FIREBARRIER Seal	99 %	0	0.22 (26)
A/D FIREBARRIER Seal NS	95 %	0	1.71 (205)
A/D FIREBARRIER SprayMastic	0 %	0	None.
A/D FIREBARRIER SprayAcrylic	TBD	0	0.54 (65)
A/D FIREBARRIER Mortar	99 %	0	None.
A/D FIREBARRIER Pillows	88 %	9 %	None.
A/D FIREBARRIER Wrap Strip	0 %	0	None.
A/D FIREBARRIER Collars	95 %	0	None.
A/D FIREBARRIER Mineral Wool	100 %	21 %	None.
A/D FIREBARRIER Putty and Putty II	0 %	0	None.
A/D FIREBARRIER Putty Pads (and II)	0 %	0	None.
A/D FIREBARRIER Inserts	0 %	0	None.

^a Regionally supplied raw material status is based on a 500 mile radius criteria, measured from A/D Fire Protection Systems' manufacturing facility. Suppliers may purchase or extract raw materials from outside this radius. Percentages are by mass.

^b Recycled content is based on the definition of "recycled", included in US Federal Trade Commission document, *Guides for the Use of Environmental Marketing Claims*, 16 CFR 260.7 (e). This does not include water. Recycled content is 100% post-consumer. Percentages are by mass.

^c VOC testing has been conducted in accordance with ASTM D 3960.

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