

# LEED® Certification Contribution



The Leadership in Energy and Environmental Design (LEED) Green Building Rating System™ is the nationally accepted benchmark for the design construction, and operation of high performance green buildings. LEED promotes a whole-building approach to sustainability by recognizing performance in seven key areas of human and environmental health: sustainable sites, water efficiency, energy and atmosphere, materials and resources, indoor environmental quality, innovation in design and regional priority credits.

S.W. Fleming Limited was founded Jan. 1st. 1959. Originally Fleming manufactured a variety of sheet metal products including metal toilet partitions, metal lockers, pre fabricated fireplaces, drafting tables, commercial coolers and freezers, metal louvers, Polio vaccine tanks, nuclear fuel containers and of course steel doors and frames. In 1986, Fleming launched into the USA and overseas markets. Today, Fleming is one of the major suppliers of metal doors and frames to the USA market with distributors in most major centers. Fleming also has distributors in the Middle East, Asia, UK, the Caribbean and Mexico.

All Fleming product is manufactured as a standard from Paintable Galvanneal Steel which is a hot dipped galvanizing process and comes with the industry's only 10 Year Warranty against rust perforation and finished paint film adhesion.

Fleming's depth of product offerings and fire rating capabilities combine to make Fleming one of the most complete product lines of Steel Doors and Frames and Steel Fire Doors and Frames in the world



ASSA ABLOY is a member of the CaGBC and USGBC  
U.S. and Canadian Green Building Council logos are trademarks and are used with permission.

## Energy and Atmosphere (EA)

### EA Prerequisite 2 Minimum Energy Performance

Establish the minimum level of energy efficiency for the proposed building and systems to reduce environmental and economic impacts associated with excessive energy use.  
**FLEMING offers superior thermal efficient openings that can help save 10% or more in improved energy efficiency. FLEMING steel doors and frames are tested in operable conditions using ASTM E1363 & E283. The new Trio-E door has the lowest U value of any steel stiffened door currently on the market.**

NC CS S

### EA Credit 1 Optimize Energy Performance

Achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic impacts associated with excessive energy use.  
**FLEMING offers superior thermal efficient openings that can help save 10% or more in improved energy efficiency. FLEMING products are tested in operable conditions using ASTM E1363 & E283. The new Trio-E door has the lowest U value of any steel stiffened door currently on the market.**

NC CS S

NC New Construction    CS Core and Shell    S Schools    CI Commercial Interiors    EBOM Existing Building Operations and Maintenance

# Materials and Resources (MR)

## MR Credit 1.2

Building Reuse - Maintain Existing Interior Non-Structural Elements

Extend the lifecycle of existing building stock, conserve resources, retain cultural resources, reduce waste and reduce environmental impacts of new buildings as they relate to materials manufacturing and transport. **Longevity and durability of FLEMING steel doors and frames should allow re-use on LEED projects and help in the ability of obtaining this credit.**

NC S CI

## MR Credit 4

Recycled Content

Increase demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials. Use materials with recycled content such that the sum of postconsumer recycled content plus 1/2 of the preconsumer content constitutes at least 10% or 20%, based on cost, of the total value of the materials in the project. The recycled content value of a material assembly is determined by weight. The recycled fraction of the assembly is then multiplied by the cost of assembly to determine the recycled content value.

Post-consumer material is defined as waste material generated by households or by commercial, industrial and institutional facilities in their role as end-users of the product, which can no longer be used for its intended purpose.

Post-industrial (Pre-Consumer) recycled content refers to scraps that are left over during industrial or manufacturing processes and which are subsequently recycled and reused.

FLEMING Recycled Content	Post-Consumer Recycled Content	Pre-Consumer Recycled Content	Total LEED Recycled Content
Frames	27.1%	8.4%	31.3%
D-and E-Series Doors	26.9%	8.3%	31.1%
H- Series Doors	27.1%	8.4%	31.3%
MH- Series Doors	54.5%	8.6%	58.8%
Trio and Trio-E Series Doors	53.7%	8.6%	57.1%

\* Recycled content based on FLEMING average steel usage

NC CS S CI

## MR Credit 5

Regional Material

Increased demand for building materials and products that are extracted and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation. Use building materials or products that have been manufactured, within 800 km (500 miles) of the final project site.

Program	Checklist	Credit	Requirement
LEED CI	Materials and Resources	Regional Materials MR 5	Allows one point if 20% material by cost is manufactured* within a radius of 800 km (500 miles).

\* Manufactured refers to the final assembly of components in Woodbridge, Ontario Canada.

CI

# Indoor Environmental Quality (IEQ)

## IEQ Credit 4.1 & 4.2

Low-Emitting Materials  
Adhesives and Sealants,  
Paints and Coatings

Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants. **This credit only applies to materials applied within the weatherproofing system. FLEMING products should have no impact on LEED projects achieving this credit**

NC CS S CI

## IEQ Credit 8.1 & 8.2

Daylight & Views

To provide building occupants with a connection between indoor spaces and the outdoors through the introduction of daylight and views into the regularly occupied areas of the building. **Adding glazing and sidelights to FLEMING steel doors and frames will assist projects in achieving this LEED credit.**

NC CS S CI

# LEED for Schools Specific Credits

## IEQ Credit 9

Enhanced Acoustical  
Performance

(LEED NC can earn Innovation  
credits for Enhanced Acoustical  
Performance)

To provide classrooms that facilitates better teacher-to-student and student-to-student communications through effective acoustical design. Design the building shell, classroom partitions and other core learning space partitions to meet the Sound Transmission Class (STC) requirements of ANSI Standard S12.60-2002, Acoustical Performance Criteria, Design Requirements and Guidelines for Schools, except windows, which must meet an STC rating of at least 35. **FLEMING offers a wide range of STC door solutions that meet ANSI Standard S12.20-2002 and can help LEED projects gain credit for Enhanced Acoustical Performance.**

S



Sound

# LEED EBOM Specific Credits

## MR Credit 3

Sustainable Purchasing-Facility Alterations and Additions

Reduce the environmental and air quality impacts of the materials acquired for use in the upgrade of buildings. Maintain a sustainable purchasing program covering materials for facility renovations, demolitions, refits and new construction additions. **FLEMING steel doors and frames can help Sustainable purchasing programs meet many of the requirements to obtain this credit.**

**EBOM**

## MR Credit 9

Solid Waste Management-Facility Alterations and Additions

To divert construction and demolition debris from disposal to landfills and incineration facilities. Redirect recyclable recovered resources back to the manufacturing process and reusable materials to appropriate sites. **Many products from FLEMING can be recycled (in the case of our metal products, potentially infinitely) and reused. We strive to make durable sustainable products that can assist projects in attaining this credit.**

**EBOM**

**NC** New Construction

**CS** Core and Shell

**S** Schools

**CI** Commercial Interiors

**EBOM** Existing Building Operations and Maintenance



For further information, please contact your FLEMING Sales Representative at **1.800.263.7515**

or refer to our website:  
[www.flemingdoor.com](http://www.flemingdoor.com)

For more information about ASSA ABLOY products and practices that are helping the environment visit:  
[www.assaabloydss.com/sustainability](http://www.assaabloydss.com/sustainability)



**ASSA ABLOY**

101 Ashbridge Circle  
Woodbridge  
Ontario L4L 3R5  
Canada  
T: 1.800.263.7515  
F: 905.851.8346

ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience.

ASSA ABLOY, the global leader in door opening solutions

Copyright © 2011, AADG, Inc., an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of AADG, Inc. is prohibited.