

# Technical Data Series

## Tech 104a

### Sustainability

### LEED v4



**MPI**  
CUSTOM STEEL DOORS & FRAMES

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The U.S. Green Building Council (USGBC) launched LEED v4 in November 2013, replacing LEED v2009 as part of their commitment to a sustainable future. Their goal in mind was to raise the bar in a way that challenges the building industry to reach higher than ever before.

## Materials & Resources (MR)

### **Building Life-Cycle Impact Reduction**

*Demonstrate reduced environmental affects during initial project decision-making by reusing existing building resources or demonstrating a reduction in materials use through life-cycle assessment.*

**MPI doors and frames have a long life-cycle and should allow re-use on LEED projects.**

*New Construction MRc1 - Core & Shell MRc1 - Schools MRc1 - Retail MRc1 - Data Centers MRc1  
Warehouses MRc1 - Hospitality MRc1 - Healthcare MRc1 - Commercial Interiors MRc2  
Retail Commercial Interiors MRc2 - Hospitality Commercial Interiors MRc2*

### **Building Product Disclosure and Optimization - Environmental Product Declarations (EPD)**

*Selects products from manufacturers who have verified improved environmental life-cycle impacts.*

Option 1 - Environmental Product Declarations (EPD)

**MPI has taken part in third-party certification for both industry-wide and product-specific EPD**

Option 2 - Multi-Attribute Optimization

**MPI demonstrated impact reduction below industry average in all six of the indicated categories.**

*New Construction MRc2 - Core & Shell MRc2 - Schools MRc2 - Retail MRc2 - Data Centers MRc2  
Warehouses MRc2 - Hospitality MRc2 - Healthcare MRc2 - Commercial Interiors MRc3  
Retail Commercial Interiors MRc3 - Hospitality Commercial Interiors MRc3*



**Building Product Disclosure and Optimization - Sourcing of Raw Materials**

*Selects products that have been verified to have been extracted or sourced in responsible manner.*

Option 2 - Leadership Extraction Practices

**Steel makes up over 90% of MPI's finished products and is one of the most recycled raw materials in the world.**

Product	Pre-Consumer Recycled Content	Post-Consumer Recycled Content
Frame	27.6%	53.5%
Polystyrene & Polyurethane Core Door	28.2%	54.9%
Steel Stiffened Core Door	35.6%	69.2%

*New Construction MRc3 - Core & Shell MRc3 - Schools MRc3 - Retail MRc3 - Data Centers MRc3  
Warehouses MRc3 - Hospitality MRc3 - Healthcare MRc3 - Commercial Interiors MRc4  
Retail Commercial Interiors MRc4 - Hospitality Commercial Interiors MRc4*

**Building Product Disclosure and Optimization - Material Ingredients**

*Selects products for which the chemical ingredients in the product are inventoried using an accepted methodology and for selecting products verified to minimize the use and generation of harmful substances.*

Option 1 - Material Ingredients Reporting

**MPI has published a Health Product Declaration (available on our website) .**

*New Construction MRc4 - Core & Shell MRc4 - Schools MRc4 - Retail MRc4 - Data Centers MRc4  
Warehouses MRc4 - Hospitality MRc4 - Healthcare MRc4 - Commercial Interiors MRc5  
Retail Commercial Interiors MRc5 - Hospitality Commercial Interiors MRc5*



## Indoor Environmental Quality (EQ)

### Daylight

*To connect building occupants with the outdoors, reinforce circadian rhythms, and reduce the use of electrical lighting by introducing daylight into the space.*

**Using MPI products with light kits or sidelights will assist in achieving this credit.**

*New Construction EQc7 - Core & Shell EQc4 - Schools EQc7 - Retail EQc7 - Data Centers EQc7  
Warehouses EQc7 - Hospitality EQc7 - Healthcare EQc7 - Commercial Interiors EQc7  
Retail Commercial Interiors EQc7 - Hospitality Commercial Interiors EQc7*

### Quality Views

*To give building occupants a connection to the natural outdoor environment by providing quality views.*

**Using MPI products with light kits or sidelights will assist in achieving this credit.**

*New Construction EQc8 - Core & Shell EQc5 - Schools EQc8 - Retail EQc8 - Data Centers EQc8  
Warehouses EQc8 - Hospitality EQc8 - Healthcare EQc8 - Commercial Interiors EQc8  
Retail Commercial Interiors EQc8 - Hospitality Commercial Interiors EQc8*

### Acoustic Performance

*To provide workspaces and classrooms that promote occupants' well-being, productivity, and communications through effective acoustic design.*

**MPI offers a wide range of Sound Transmission Class (STC) solutions that could assist in achieving this credit.**

*New Construction EQc9 - Schools EQc9 - Data Centers EQc9 - Warehouses EQc9 - Hospitality EQc9  
Healthcare EQc9 - Commercial Interiors EQc9 - Hospitality Commercial Interiors EQc9*

