



**ENERFREES**  
Window & Wall Systems

## BI-FOLDING DOOR

**S-EF1070**

HIGH PERFORMANCE THERMAL BI-FOLDING DOOR



### FRAME

FRAME DEPTH

70mm (2 ¾")

MIN BI-FOLDING DOOR WIDTH PER PANEL

330mm (13")

MAX BI-FOLDING DOOR WIDTH PER PANEL

900mm (2' 11-½")

MIN BI-FOLDING DOOR HEIGHT PER PANEL

850mm (2' 9-½")

MAX BI-FOLDING DOOR HEIGHT PER PANEL

2400mm (7' 10-½")

MAX WEIGHT PER PANEL

80KG

(Condition applied)

### GLAZING

Insulated, Tempered Glass, Low-E, Argon Filled, Warm-Edge Spacer, 3A Molecular Sieve

Thickness

Double Glazing

5mm+12mm+5mm

(OVERALL = 22mm (7/8" OA)

6mm+12mm+6mm

(OVERALL = 24mm (15/16" OA)

Triple Glazing

5mm+12mm+5mm +12mm+5mm

(OVERALL = 39mm (1 9/16" OA)

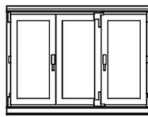
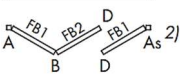
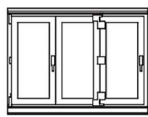
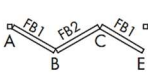
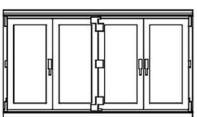
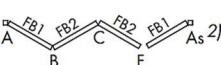
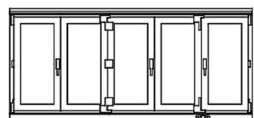
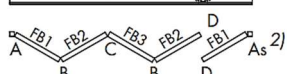
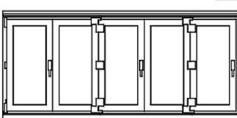
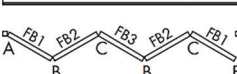
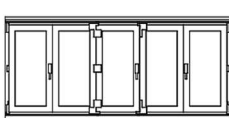
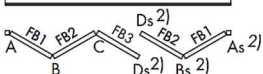
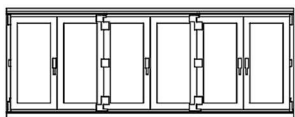
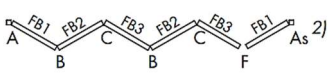
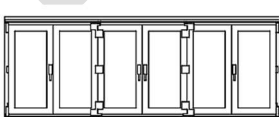
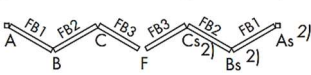
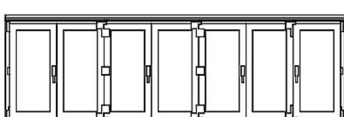
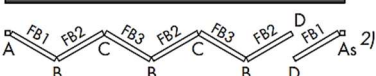

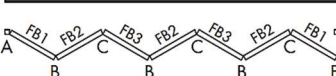
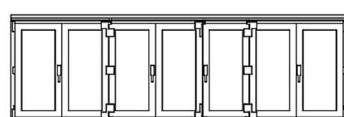
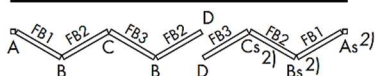


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**S-EF1070**

### DESIGN OPERATION OPTIONS

3 PANELS OPTION		
<b>321</b>  	<b>330</b>  	
4 PANELS OPTION		
<b>431</b>  		
5 PANELS OPTION		
<b>541</b>  	<b>550</b>  	<b>532</b>  
6 PANELS OPTION		
<b>651</b>  	<b>633</b>  	
7 PANELS OPTION		
<b>761</b>  	<b>770</b>  	<b>743</b>  

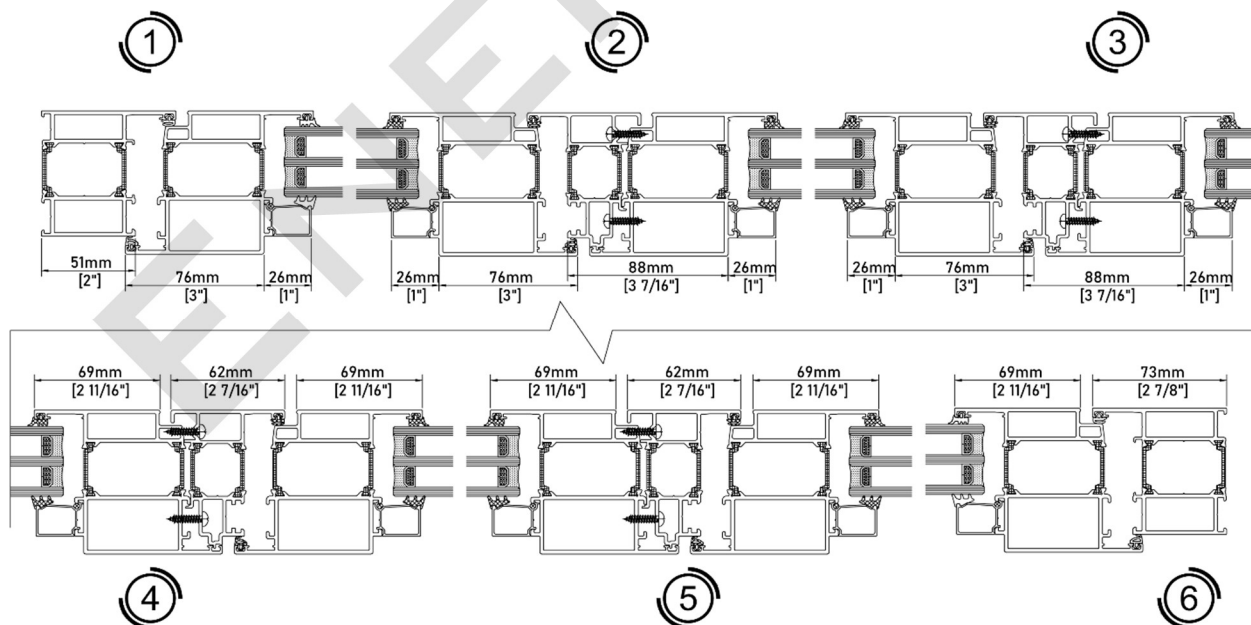
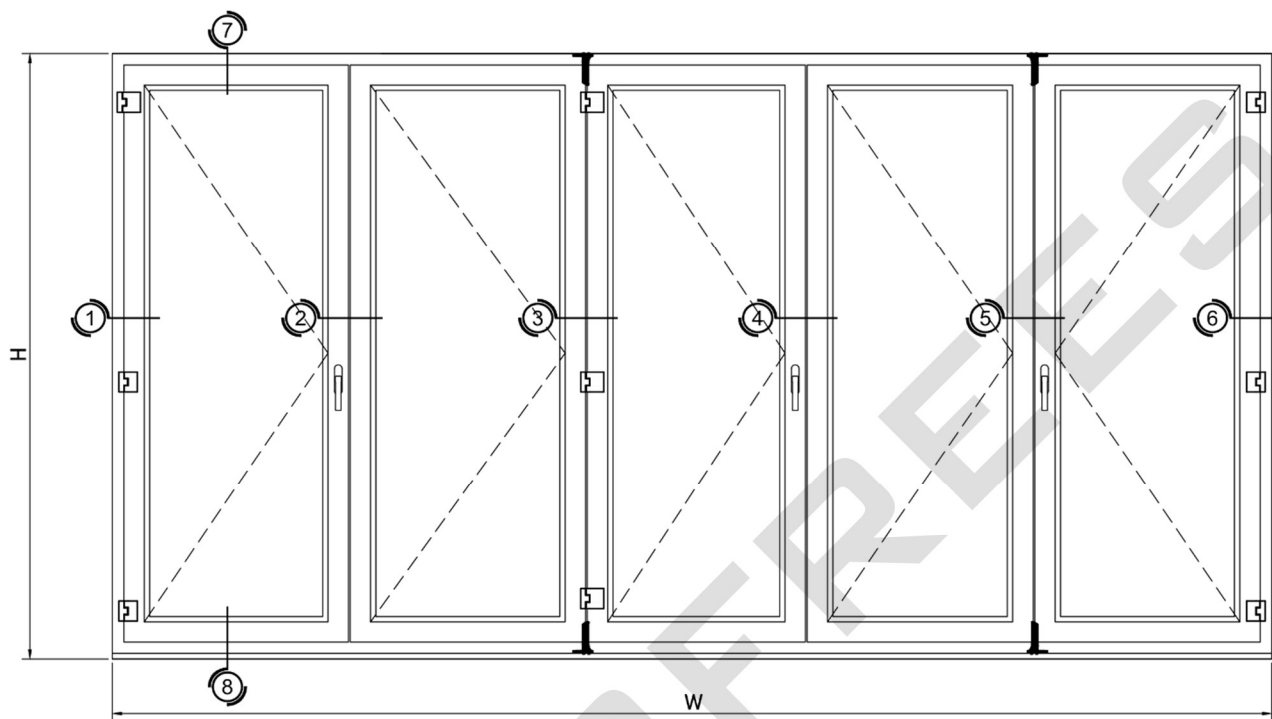


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DETAILS:

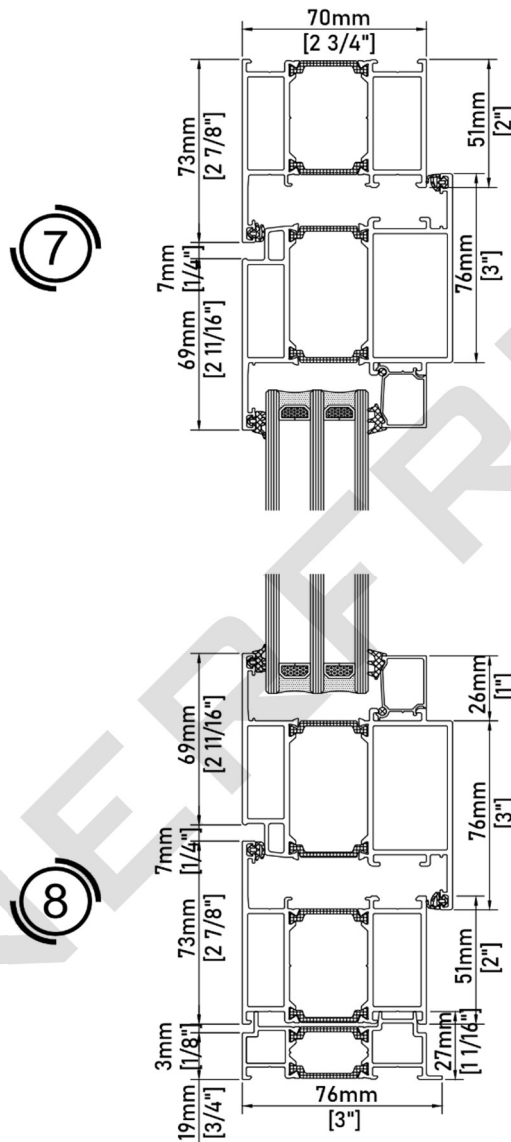




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## BI-FOLDING DOOR

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## FENESTRATION

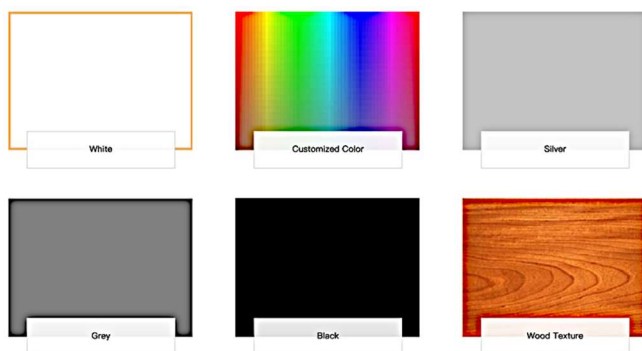
Commonly use by the need to maximize larger openings and fold panels in a group to open and close like an accordion in several options. Climate does not always require wide-open expanse and Enerfree's design options have configuration with single swinging door allowing for convenience of everyday operation. This means that the door is always functional and useful all year round. When it is time to fully open-up the room with permitting weather, it maximizes full features to enjoy the view and have fresh air in.

When fresh air flow is a priority, horizontal hidden screens are available to keep insects and debris out.

Our sliding screen is a retractable and unobtrusive that can be hidden or concealed when not needed. It spans according to size of the opening that moves in one direction, or up to double size with two screens that meet in the middle of the scenic door. A grip of the handle makes operating the screen smooth and comfortable.

## FINISH

**POWDER COATED.** Powder coating is a polyester based coating that uses uniformly sized micro-beads of polyester, electrostatically charged to adhere to base materials. The coating is thick like an epoxy paint, but because it is electrostatically charged and then baked/cured onto the base material, it doesn't flake or peel like paint or epoxy. The color is softer than comparable colors and the depth of the coating is larger.



### ADVANTAGE:

- Wide selection of colours
- Texturized finish is an option

## ENERFREES HIGH-PERFORMANCE THERMAL BREAK (PA 66 OR NYLON 66)

Polyamide 66 (PA66) is a type of nylon. PA 66 is made of two monomers each containing 6 carbon atoms, hexamethylenediamine and adipic acid.

Melting point:	268.8 °C
Formula:	(C <sub>12</sub> H <sub>22</sub> N <sub>2</sub> O <sub>2</sub> ) <sub>n</sub>
Density:	1.31 g/cm <sup>3</sup>
Boiling point:	452.1 °C
PubChem CID:	3032893



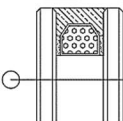
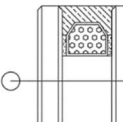
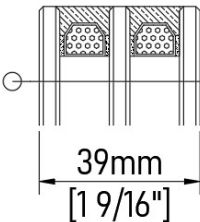
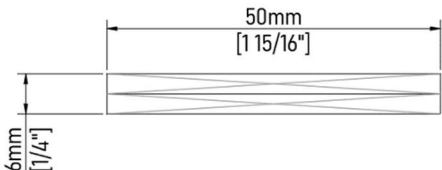
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## BI-FOLDING DOOR

**S-EF1070**

### General Characteristic:

- High strength and stiffness at high temperature
- Good impact strength, even at low temperature
- Good abrasion and wear resistance
- Good fatigue resistance
- High water absorption and water equilibrium content limits the usage
- Low dimensional stability

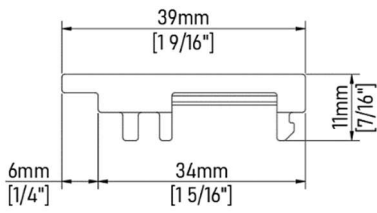
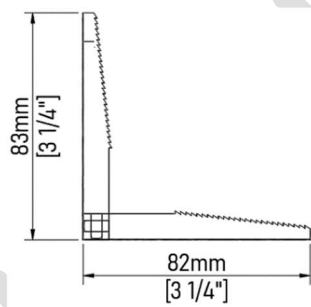
<b>GLAZING (INSULATED GLASS UNITS)</b> Tempered, Low-E, Argon Filled, Warm-Edge Spacer, 3A Molecular Sieve	
<b>GIDPT0022- DOUBLE PANE GLASS</b> (DPG 7/8" OA)	 5+12+5MM
<b>GIDPT00024- DOUBLE PANE GLASS</b> (DPG 15/16" OA)	 6+12+6MM
<b>GITPT00039- TRIPLE PANE GLASS</b> (TPG 1 9/16" OA)	 5+12+5+12+5MM 39mm [1 9/16"]
<b>WAGSB0001 - GLASS SETTING BLOCK (GSB)</b> PVC	 50mm [1 15/16"] 6mm [1/4"]



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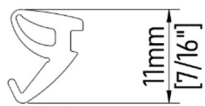
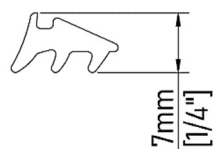
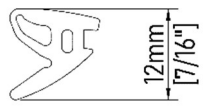
## BI-FOLDING DOOR

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<p><b>WAGSB0002</b> - GLASS SETTING BLOCK (GSB) PVC</p>	
<p><b>WAGSB0002</b> - GLASS CORNER SETTING BLOCK (CSB) PVC</p>	

### SEALS

EPDM rubber is a high-density synthetic rubber used for outdoor applications and other spaces in need of tough, versatile parts.

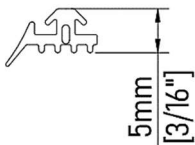
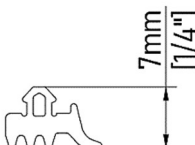
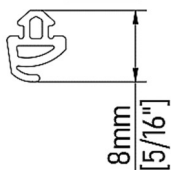
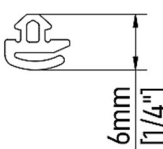
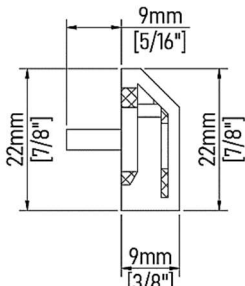
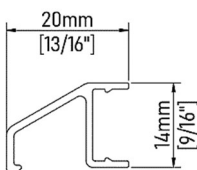
<p><b>WSIGX0001</b> - INTERIOR GASKET (IGX) EPDM RUBBER</p>	
<p><b>WSIGX0002</b> - INTERIOR GASKET (IGX) EPDM RUBBER</p>	
<p><b>WSIGX0003</b> - INTERIOR GASKET (IGX) EPDM RUBBER</p>	



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<p><b>WSEGX0004</b> - EXTERIOR GASKET (EGX) EPDM RUBBER</p>	
<p><b>WSEGX0005</b> - EXTERIOR GASKET (EGX) EPDM RUBBER</p>	
<p><b>WSESX0007</b> – EXTERIOR SASH GASKET (ESG) EPDM RUBBER</p>	
<p><b>WSISX0007</b> – INTERIOR SASH GASKET (ISG) EPDM RUBBER</p>	
<p><b>OTHER COMPONENT/S</b></p>	
<p><b>WADXX0001</b> – EXTERIOR DRAIN COVER (DXX) PVC</p>	
<p><b>WAWBX0001</b> – WEATHER BAR (WBX) 6063-T5</p>	

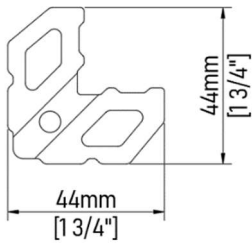
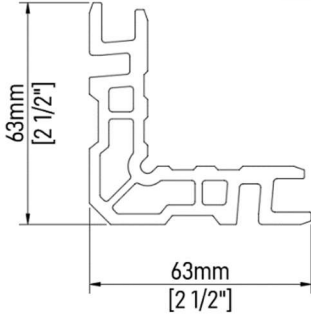
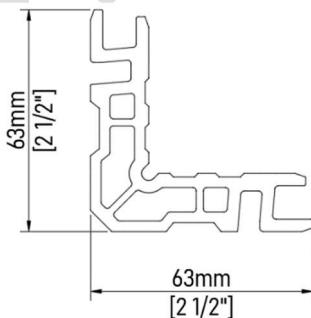
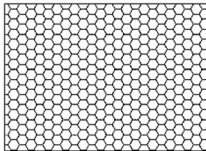




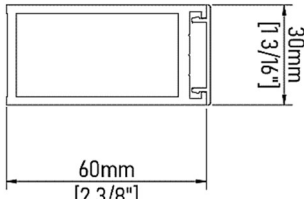
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<p><b>WPCKX0001</b> – CORNER JOINT KEY (CJK) STAINLESS STEEL</p>	
<p><b>WPCJB0001</b> – CORNER JOINT BLOCK D-3/4" (CJB) 6063-T5</p>	
<p><b>WPCJB0002</b> – CORNER JOINT BLOCK D-1/2" (CJB) 6063-T5</p>	
<p><b>WFIFX0001</b> – INJECTED FOAM INSULATION (IFX)</p>	

### PERIMETER EXTENDERS

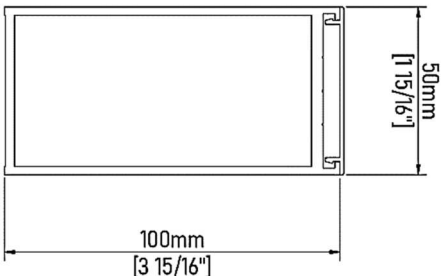
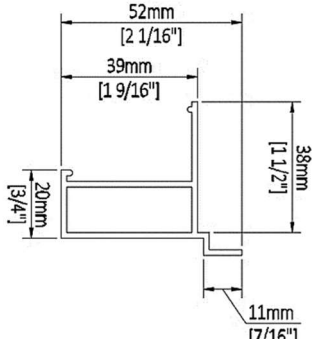
<p><b>PFE6X0001</b> – PF EXTENDER 6063-T5</p>	
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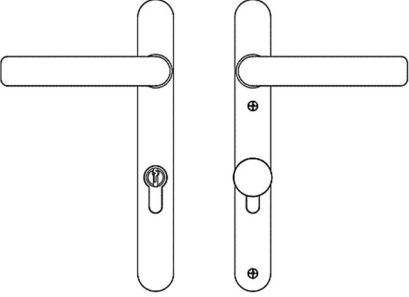
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<p><b>PFE6X0002 – PF EXTENDER</b> 6063-T5</p>	
<p><b>PFBMX0001 – PF BRICK MOULD</b> 6063-T5</p>	

### HARDWARE

<p><b>ONE-CLICK KEY ENTRY/MULTIPLE LOCKING SYSTEM</b> E-KEMP LOCKING SYSTEM EDKEMP0001</p>	
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**GENERAL SPECIFICATION**

**I. PACKAGE INCLUDES**

Manufacturing includes labour, materials, and services for the complete fabrication and assembly of EBFD1070 Swing Door System. Fabrication to include all necessary accessories and components, anchors, joint blocks, drain cover, seal rubbers, hardware, and sealants as required in the purchase agreement.

**II. PACKAGE EXCLUDES**

Structural installation or provision, framing, interior and exterior trims replacement/repairs, concrete masonry, brick restoration, final cleaning, protection, and/or any related work as specified.

**III. PERFORMANCE AND QUALITY STANDARD REQUIREMENT AND ASSURANCE**

Enerfree's EBFD1070 Swing Door supplied to client under this specification must comply to the performance standard requirements and test report from an independent testing laboratory certifying compliance shall be given upon request by the owner/architect/contractor.

Test Required: AAMA/WDMA/CSA 101/I.S.2/A440-17 NAFS – North American Fenestration Standard / Specification for windows and doors and A440S1:19 Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440-17 NAFS - North American Fenestration Standard / Specification for windows and doors.

**IV. MANUFACTURING REFERENCES**

An approved shop drawing shall be provided for manufacturing reference and Enerfree's pricing. Enerfree's pricing and drawing shall be signed back to finalize manufacturing and fabricating details.

**V. ALUMINUM EXTRUSION**

All extruded aluminum sections shall be 6063-T5 alloy or equivalent.

**VI. FASTENERS**

Fasteners shall be stainless steel or as required.

**VII. FABRICATION/MANUFACTURING**

Bi-Folding Door will be fabricated according to the approved shop drawings. All joints will be assembled tight using manufactures provided assembly machines to comply with quality standard and assurance to carry out the product design performance.



VIII. INSTALLATION

Enerfree products that will be installed shall conform with the manufacturer's instructions and should comply with approved shop drawings. The work shall be performed by qualified or certified installer using proper equipment to carry out necessary, proper, and efficient installation in a professional manner.

IX. PROTECTION

Exposed aluminum finished surface shall be protected from contamination of mortar, concrete, paint, mud, soil, grease, sealant or caulking compound, and any other harmful substance that can cause damage to surface finish from prolong adhesion.

X. CLEANING

Provisional cleaning shall perform primary clear-out after installation and final cleaning shall be executed by the project owner in accordance with the general conditions listing methods outlined in AAMA 609 and 610-02.