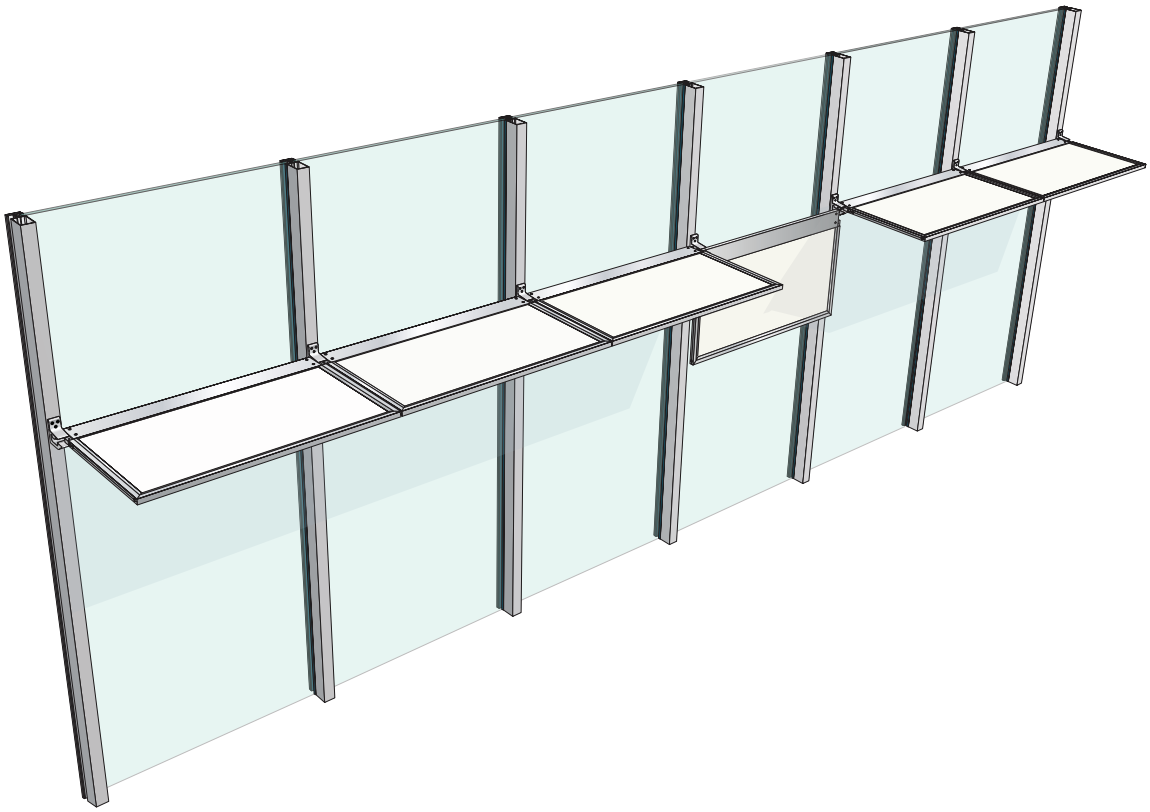
InLighten® (Light Shelf)



Features

- Minimalist design which can attach to multiple Kawneer Curtain Wall and Storefront* systems
- Available in depths up to a maximum projection of 30 inches (762mm) and a maximum span of 72 inches (1828mm)
- Reynobond® (4mm) thick aluminum composite material or translucent polycarbonate panel, (4mm/16mm) thick panel options are standard
- Innovative design allows panels to be tilted for care and cleaning
- Simplified installation and panel hanging operation
- Standardized corner design creates seamless product visual without sacrificing performance
- Designed to avoid interference with installation or operation of typical window treatments
- Thoroughly engineered using advanced finite element analysis (FEA) modeling techniques and physical testing
- Qualifies for up to three LEED categories
- Extruded components can be painted or anodized

Product Applications

- Ideal for improving daylighting in Schools, Hospitals, Retail Locations, Offices, Banks, and Restaurants
- Can be applied to both new or retrofit projects

*Exclusions apply, please see page 4 for details.

For specific product applications,
Consult your Kawneer representative.

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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Architects - The extrusions and window types illustrated in this catalog are standard products for Kawneer. These concepts have been expanded and modified to afford you design freedom. Please contact your Kawneer representative for further assistance.

PICTORIAL VIEW (Installed Position) 4
PICTORIAL VIEW (Cleaning Position)..... 5
TYPICAL INTERMEDIATE
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LAWS AND BUILDING AND SAFETY CODES GOVERNING THE DESIGN AND USE OF GLAZED ENTRANCE, WINDOW, AND CURTAIN WALL PRODUCTS VARY WIDELY. KAWNEER DOES NOT CONTROL THE SELECTION OF PRODUCT CONFIGURATIONS, OPERATING HARDWARE, OR GLAZING MATERIALS, AND ASSUMES NO RESPONSIBILITY THEREFOR.

Metric (S1) conversion figures are included throughout these details for reference.
Numbers in parentheses ( ) are millimeters unless otherwise noted.

The following metric (S1) units are found in these details:

m – meter
cm – centimeter
mm – millimeter
s – second
Pa – pascal
MPa – megapascal

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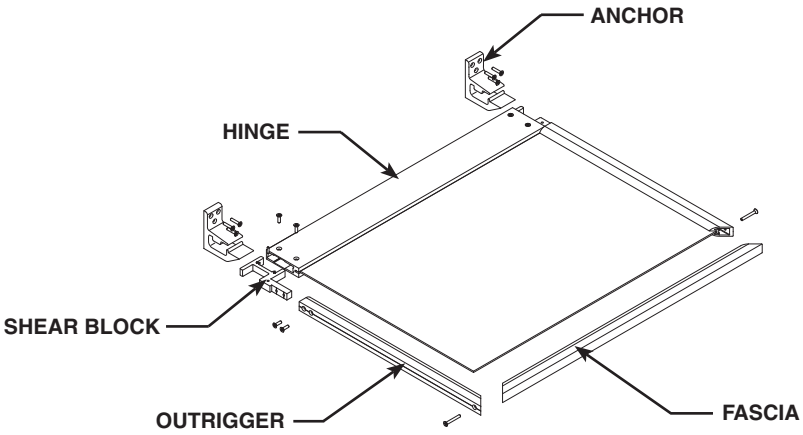
InLighten® (Light Shelf)

PICTORIAL VIEW (INSTALLED POSITION)

LIGHT SHELF SHOWN IN INSTALLED POSITION



EXPLODED VIEW OF LIGHT SHELF

Shown with 4mm Reynobond® Aluminum Composite Material (ACM)

COMPATIBLE SYSTEMS:

- Curtain wall system mounting mullion with face width of 2” (51 mm) or greater and wall thickness greater than 0.080” (2 mm).
- Center or Front Set Storefront system with single piece tubular mounting mullion, with face width of 2” (51 mm) or greater and mounting mullion wall thickness greater than 0.080” (2 mm).

MAXIMUM PROJECTION = 30" (762mm) from face of mounting mullion.
MAXIMUM SPAN = 72" (1828mm) centerline to centerline of mounting mullions.

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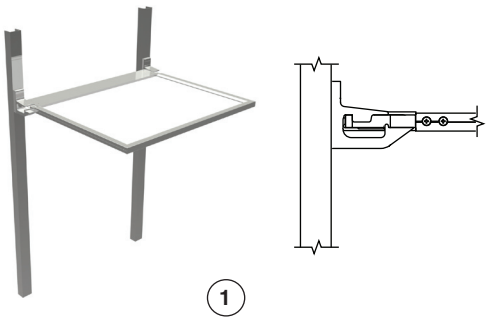
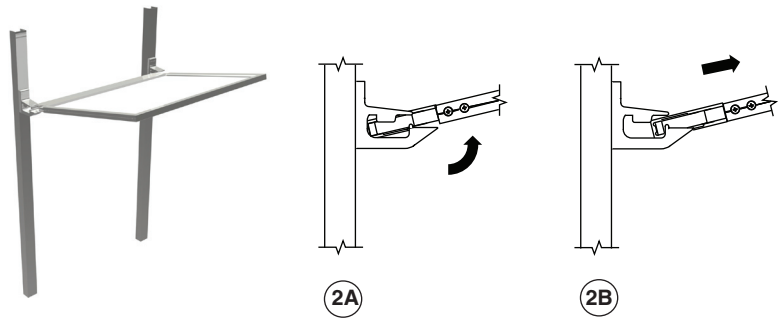
LIGHT SHELF SHOWN IN CLEANING POSITION

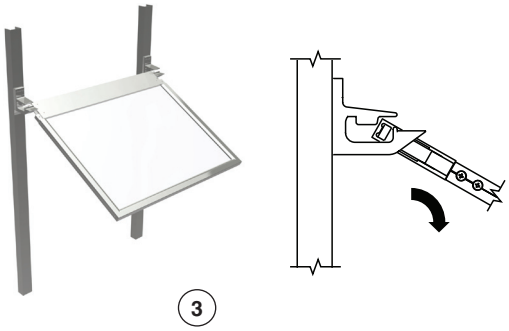
SEQUENCE OF STEPS FOR TILTING THE LIGHT SHELF



1



2A 2B



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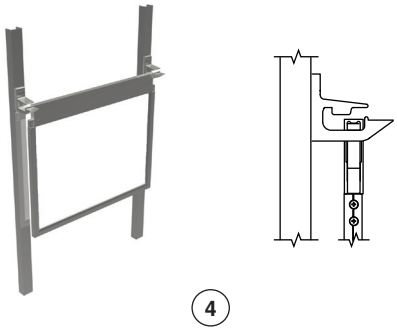

4

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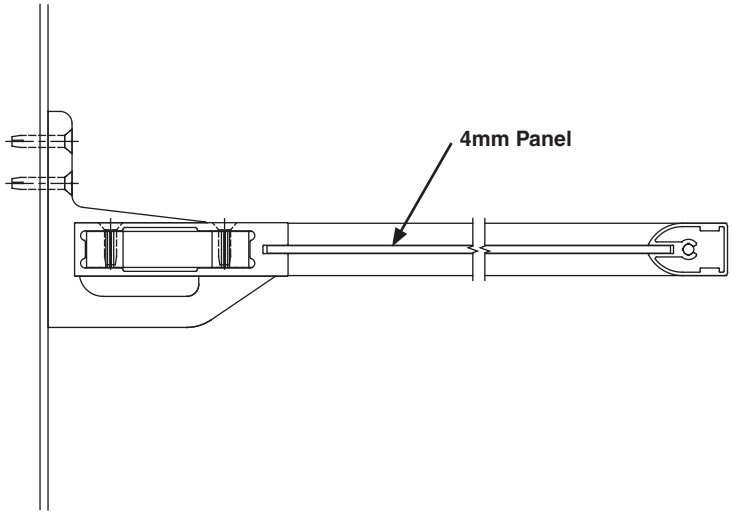
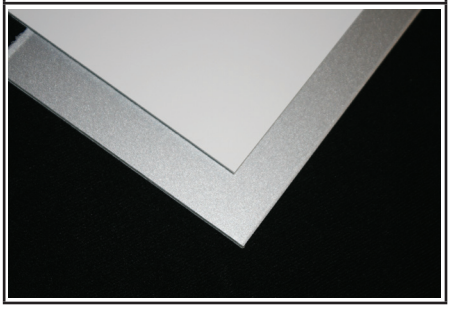
LIGHT SHELF WITH 4mm PANEL SHOWN IN INSTALLED POSITION



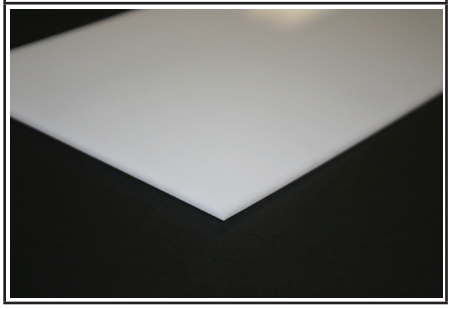
(4mm) REYNOBOND® ACM and POLYCARBONATE PANEL CHOICES

REYNOBOND® ACM



Shown with Bone White and Bright Silver Metallic finishes

MONOLITHIC POLYCARBONATE SHEET



Shown with ICE Monolithic Polycarbonate Sheet

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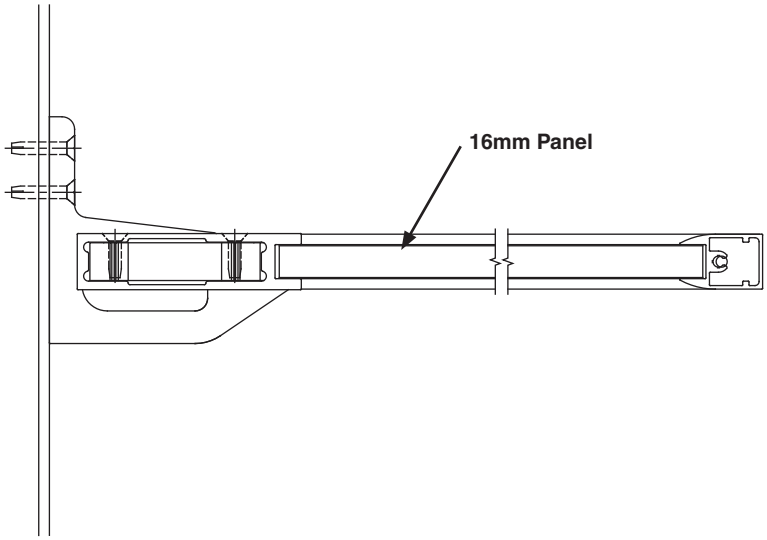
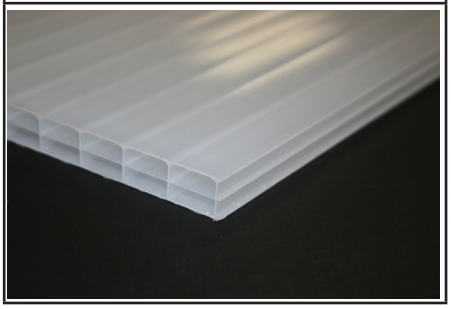
LIGHT SHELF WITH 16mm PANEL SHOWN IN INSTALLED POSITION



(16mm) POLYCARBONATE PANEL CHOICE

Multi-Layered Extruded Polycarbonate Sheet


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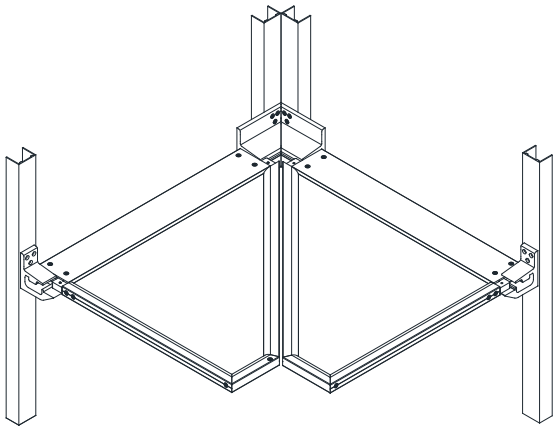
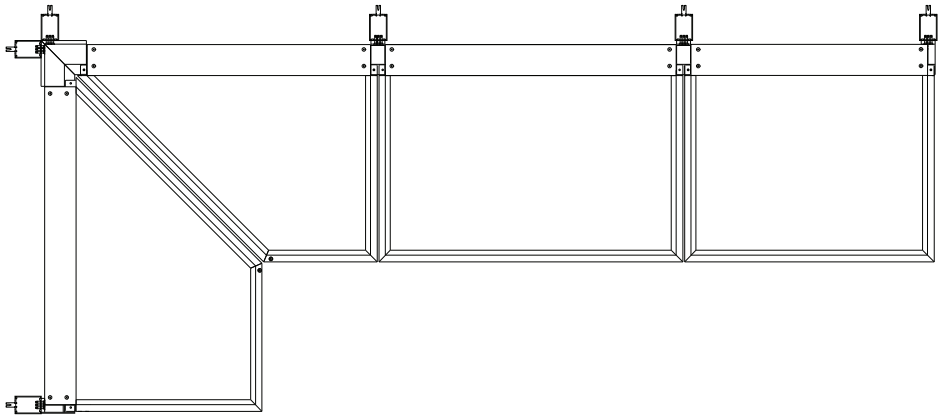
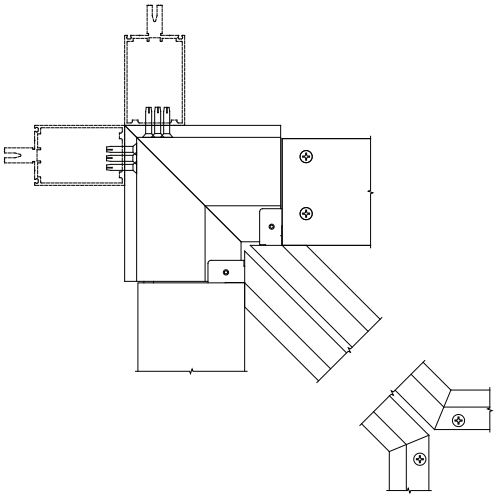
InLighten® (Light Shelf)

CORNER DETAILS

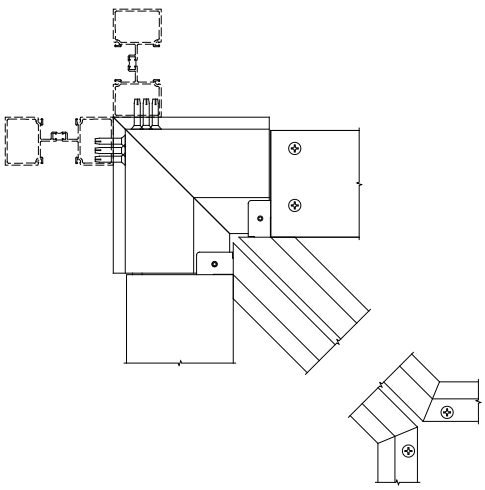


TYPICAL INSIDE CORNER ASSEMBLY





Curtain Wall Corner Detail
1600 Wall System®1 Shown



Storefront Corner Detail
Trifab® VG 451T Shown

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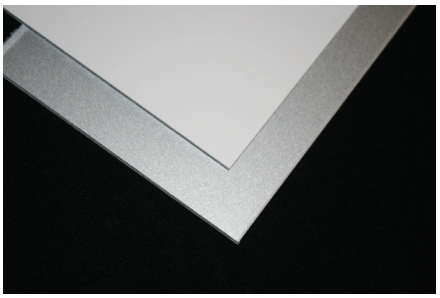
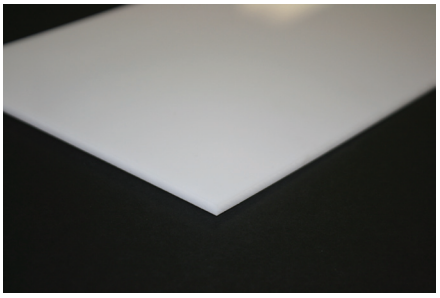
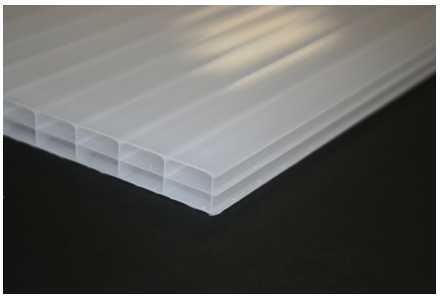
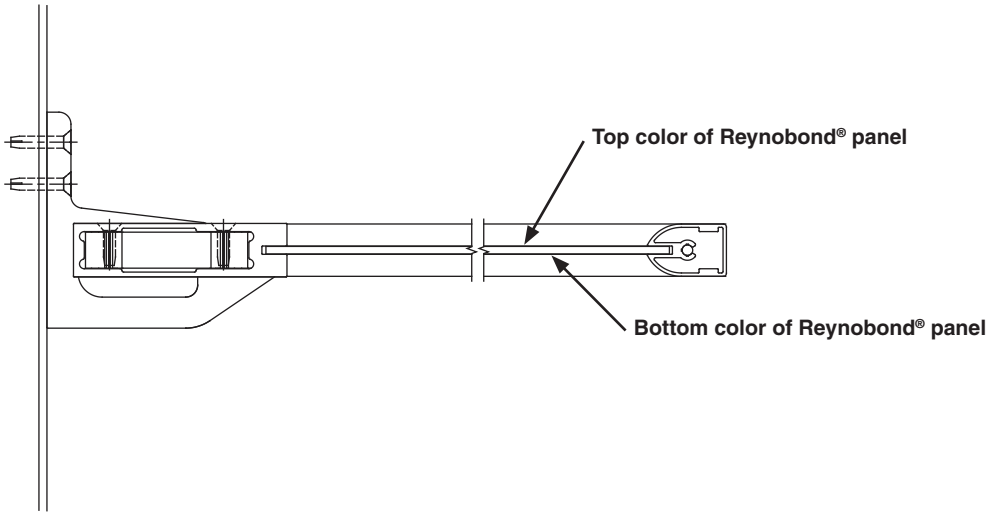
PANEL OPTIONS

TYPE	PROFILE	COLOR
4mm Reynobond® ACM Panel		**Top**: Specify per job. (Bone White offers the highest reflectivity) **Bottom**: Specify per job.
4mm Monolithic Polycarbonate Sheet		**ICE** (White Translucent)
16mm Multi-Layer Extruded Polycarbonate Sheet		**ICE** (White Translucent)



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DESIGN GUIDELINES

- Aluminum composite panels will be painted as specified. It is suggested that a white finish be used for the top surface of the Light Shelf to maximize the reflection of daylight into the building space.
- Rynobond® standard color chart can be accessed at the following website:
  http://www.alcoa.com/aap/north_america/catalog/pdf/brochures/CW500_Reynobond_Reynolux_Color_Chart.pdf
- Automated lighting controls in conjunction with Light Shelves provide the best energy savings.
- Overhead lighting fixtures need to be positioned appropriately with respect to the Light Shelves to get the maximum benefit.
- Ceiling color impacts the performance of the Light Shelf as well since it is the final surface which reflects the daylight.
- Daylighting simulation tools can help decide the optimum position of the Light Shelf on the vertical mullion based on building layout, climatic conditions, latitude, interior plan and other factors.
- InLighten® Light Shelves should be mounted at a height above the floor so that it does not interfere with passers-by.
- Consult with local building and fire codes for applications with Light Shelves and fire sprinkler systems.

CAUTION:

InLighten® Light Shelf is designed as a Sun Control device and is not intended to be used for storage. Do not place objects on Light Shelf or use as a step. Follow instructions to tilt the Light Shelf for care and cleaning.

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