

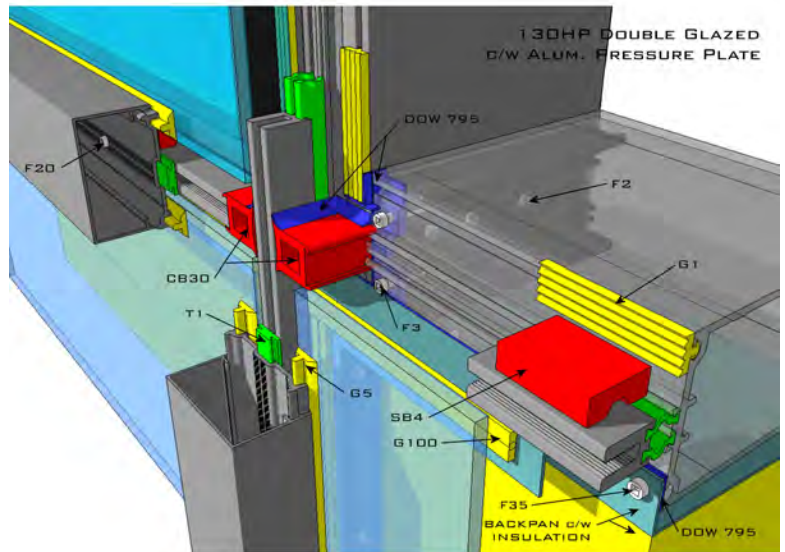
# *Building Your Visions*



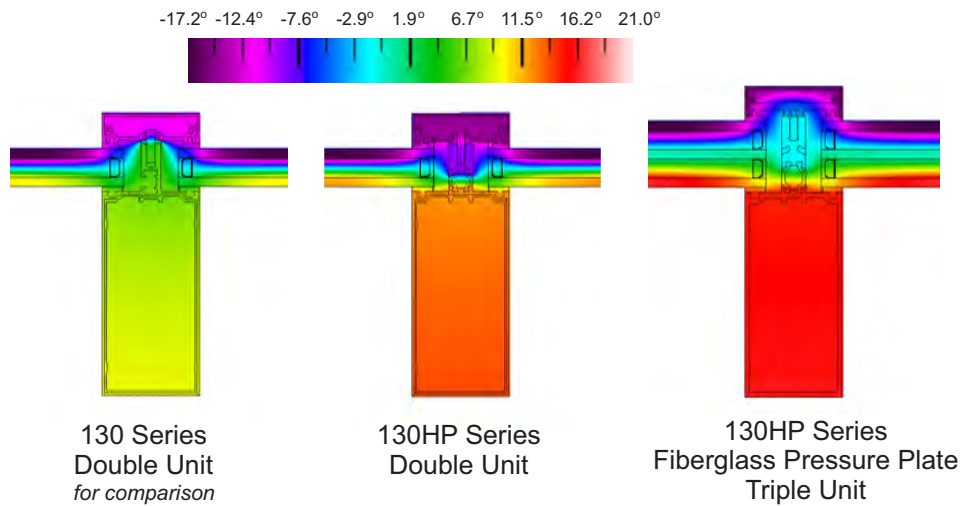
**Ferguson CEAP Curtain Wall Systems**

# Ferguson-EAP 130HP Series High Performance Curtain Wall System

Ferguson's 130HP curtain wall system was developed for high performance double, triple, unique acoustical glass and custom designs. The system features a glass fiber reinforced nylon thermal break design for maximum energy efficiency. As with all our curtain wall systems, the 130HP series is designed on the rain screen principle with internal weep drainage and pressure equalization, and has been fully tested to exceed industry standards for no water infiltration and limited air infiltration or exfiltration. The HP series can incorporate additional glazing system components including doors, sloped glazing, windows and vents, and custom designs.



# Ferguson-EAP 130HP Series Thermal Performance



**Condensation Resistance**  
Temperature Index  
(simulated for comparison)

Temperature Index will vary with glass type and may differ from above values depending on specified glass

## System U-Value

W/m <sup>2</sup> -C	2.40	1.70	0.95
BTU/h-ft <sup>2</sup> -F	0.42	0.30	0.17

U-values will vary with glass type  
See chart below for approximate U-Values

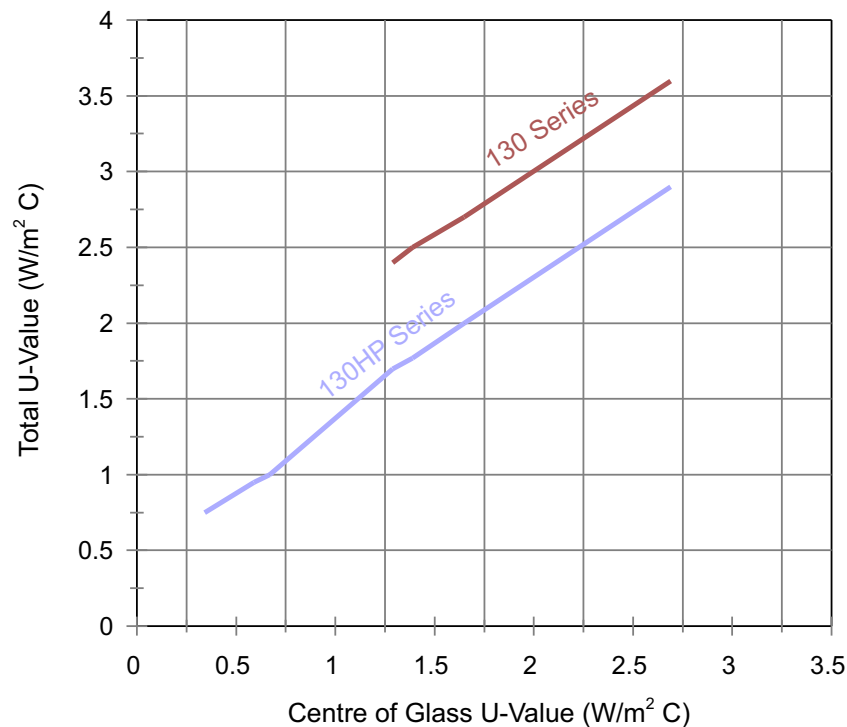
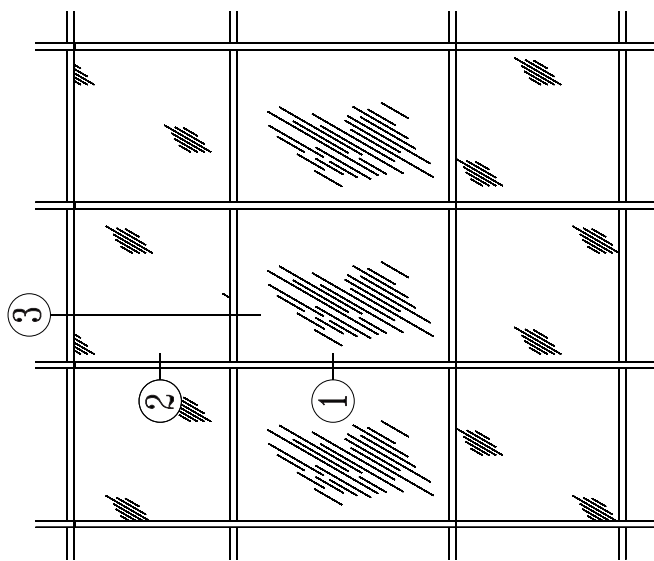
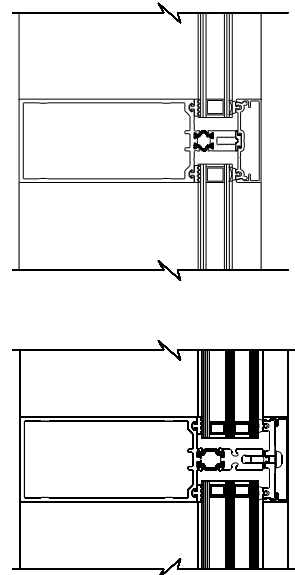


Chart based on standard reference size of 2000 x 2000mm. Actual U-values will vary with frame size, glass type, frame type, frame profile, and spacer bar type. Please contact Ferguson for exact U-values for your specified glass type and project.

# TYPICAL HIGH PERFORMANCE FRAME DETAILS

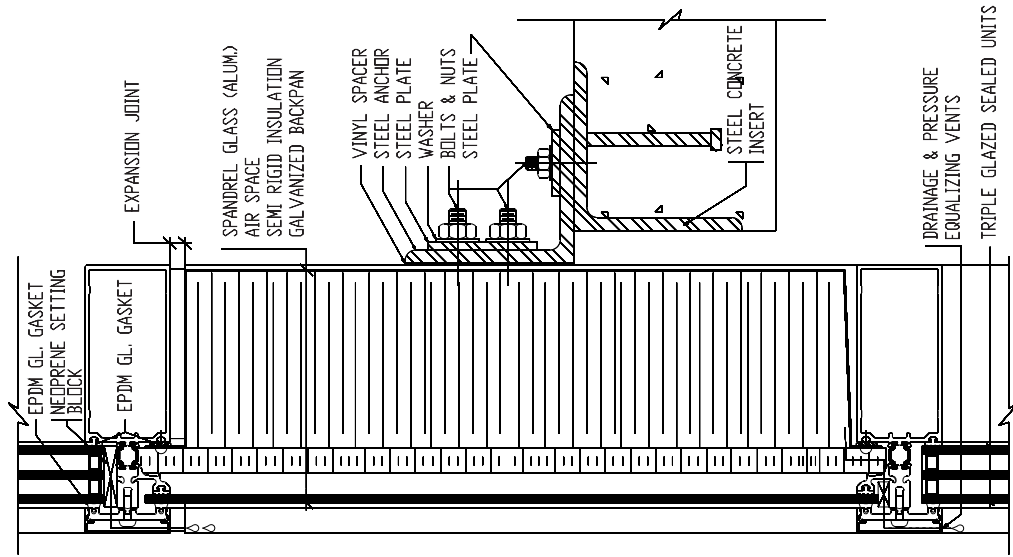


PARTIAL CURTAIN WALL ELEVATION



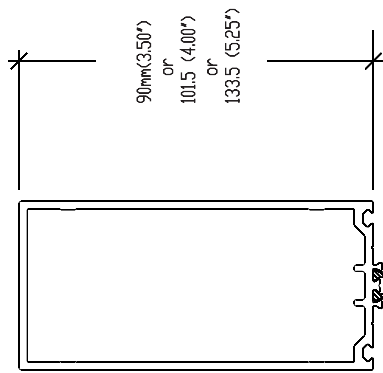
DETAIL 1  
NOT TO SCALE

DOUBLE GLAZED



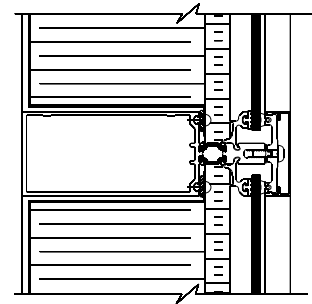
SECTION 3

63.5mm (2.5")



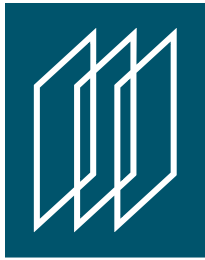
various cap  
profiles available

MULLION AND CAP DETAILS  
NOT TO SCALE



DETAIL 2





**Engineered**  
*Aluminum Products Inc.*

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## Curtain Wall Specifications

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### **EAP Curtain Wall Systems**

#### Test Results for EAP 130HP Series Curtain Wall System

##### **CSA Standard A440-00**

Section 10.2	Air Tightness	Passed Fixed
Section 10.3	Water Tightness	Passed B7
Section 10.4	Wind Load Resistance	Passed C5

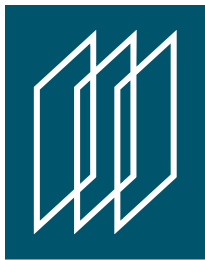
##### **CSA Standard A440.2**

Section 5	Overall U-value	up to 0.95 W/m <sup>2</sup> CEC (0.17 Btu/Ft <sup>2</sup> ChCEF)
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U-value stated above is for NFRC standard curtain wall frame size 2000mm x 2000mm  
Simulated with Therm 6.3 and Window 6.3  
Triple Units, ½" argon gas, warm edge spacer, Low E coatings, centre of glass 0.59 W/m<sup>2</sup> C

#### **EAP Head Office and Manufacturing Plant:**

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Calgary, Alberta, Canada T2G 4A5  
Ph: (403) 287-4480  
Fx: (403) 243-2198  
Internet: [www.ferguson.ca](http://www.ferguson.ca)



**Engineered**  
Aluminum Products Inc.

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## Curtain Wall Specifications

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### **EAP Series 130, 135, 130HP and 135HP Curtain Wall Systems**

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#### **General**

All curtain wall components shall be manufactured and engineered by Engineered Aluminum Products (EAP). Profiles to be based on series 130, 135, 130HP or 135HP curtain wall systems (Architect to specify). Shop drawings and engineered details to be submitted and approved prior to commencement of fabrication.

#### **Material**

All aluminum sections shall be aluminum extrusions of 6063 alloy with temper as engineered by manufacturer. All screws, fastening devices, and other components shall be of corrosion resistant material and engineered to perform as intended and sustain imposed loads. Screws subject to corrosion shall be of stainless steel type 304 or double cadmium plated steel. Supporting angles, plates, and accessories of structural steel, shop painted with zinc chromate primer. Aluminum sheet shall be of suitable quality and alloy for the specified finish. Insulated back-up panels shall be of galvanized steel of adequate thickness (typically 20 or 22 gauge) with sealed corners and insulation (minimum 48 kg/m<sup>3</sup> density) to specified thickness or R-Value. Insulation firmly held in place by welded pins. All gaskets, interior and exterior, shall be EPDM, neoprene, santoprene, or silicone as required by EAP and keyed to fit the pressure plate and back section and held in compression. Spacers, setting blocks and shims are of appropriate compatible material, length and hardness to suit the intended purpose. The keyed thermal break material shall be PVC. The 130HP and 135HP series shall use an aluminum or fiberglass pressure plate and/or an additional thermal break using a glass fiber reinforced nylon extruded profile (technoform I-strut or equal). Glass as selected by the Architect.

#### **Finish**

All exposed surfaces shall be finished to Aluminum Association Standards and either:

- a) Anodized - AAC22Axx
- b) Fluoropolymer - Kynar 500 or Hylar 5000  
(eg. PPG Duranar or Duranar XL®)
- c) Duracron or other comparable finishes

#### **Design**

EAP curtain wall systems shall be designed on the rain screen principle with internal weep drainage and pressure equalization for no water infiltration and limited air infiltration or exfiltration. Fabrication shall take place in EAP or an EAP approved plant to

maintain the highest quality standards. Anchoring details shall provide for adequate adjustment and compensate for building and thermal movements. Frame profile selection to meet all loading requirements and applicable building codes. Provision shall be made within the system for adequate retention, structural support, and thermal movement of the glazing. Curtain wall systems by EAP shall be tested and have passed the following standards:

CStatic Pressure Air Infiltration (ASTM E283)

CStatic Pressure Air Exfiltration (ASTM E283)

CStatic Pressure Water Infiltration (ASTM E331)

CStructural Loading (ASTM E330)

CThermal Performance testing and simulations including 63-GP-12M

The HP series have been designed for improved thermal performance. Please contact our office for simulations or test results.

#### **Options**

EAP curtain wall systems are designed to incorporate additional glazing system components including doors, sloped glazing, sliding fronts, windows and vents.

#### **Installation**

Installation shall be by experienced technicians to EAP's approval, instructions and site inspection to the highest quality standards. Installation must adhere to EAP's engineering and shop drawings. Components that contact dissimilar materials shall receive a protective coating.

#### **Guarantee**

The curtain wall system shall be guaranteed to be free from defective materials and installation deficiencies for a period of one year from the date of substantial completion, or as otherwise previously agreed to.

#### **Technical Assistance**

EAP provides engineering expertise for individual projects to help meet your design requirements including many custom extrusions and solutions. Our engineering department is available for consultation at any stage of the project. Contact our office for our full catalogue.

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