

SERIES 5000

CURTAIN WALL SYSTEM

TECHNICAL DATA

DESCRIPTION:

2" (50.8mm) WIDE, TWO SIDED, STRUCTURAL SILICONE GLAZED THERMALLY BROKEN WALL SYSTEM, WITH 4" (101.6mm) MULLION BACK SECTIONS.

COMPATIBILITY: ADHESION TESTING OF SILICONE TO FINISHED SECTIONS IS RECOMMENDED BY THE SILICONE MANUFACTURERS. DESIGNED TO SUIT ALL DOORS AND DOOR HARDWARE.

FINISH: PROFILES STOCKED IN MILL FINISH ONLY. OTHER FINISHES ARE AVAILABLE, SAMPLES UPON REQUEST.

STOCK LENGTH: 24'-2" (7.37 METERS).

ASSEMBLY: DESIGNED FOR SHEAR BLOCK ASSEMBLY.

STRENGTH: REFER TO WIND LOAD CHARTS FOR MAXIMUM ALLOWABLE SPANS.

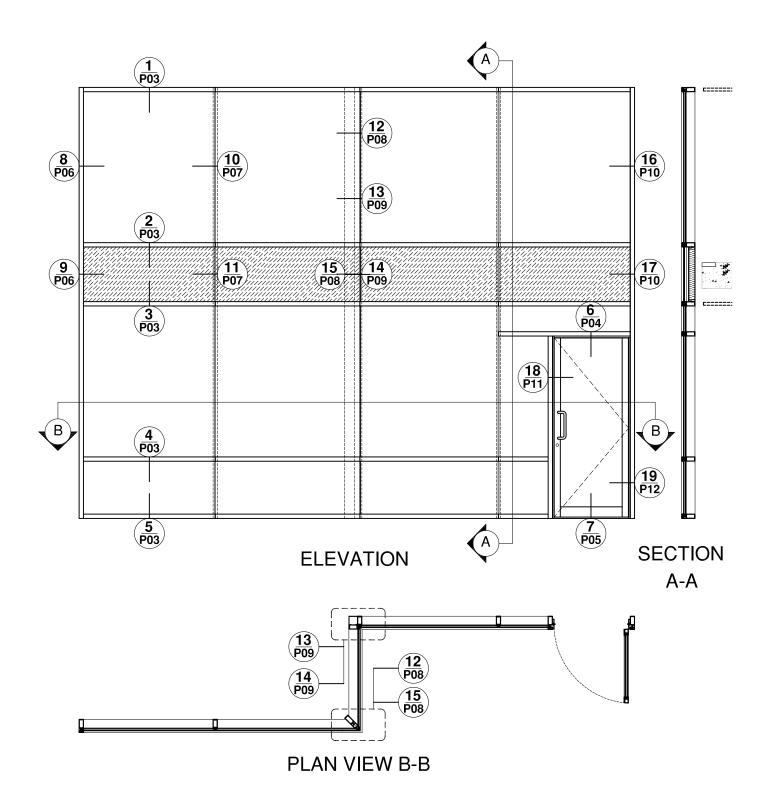
ANCHORING: REFER TO FABRICATION AND INSTALLATION MANUAL.

GLAZING: 5000 SSG SERIES IS AN EXTERIOR GLAZED SYSTEM WHICH WILL ACCEPT 1/4" (6mm) SINGLE GLASS AND 1" (25mm) SEALED UNIT GLASS



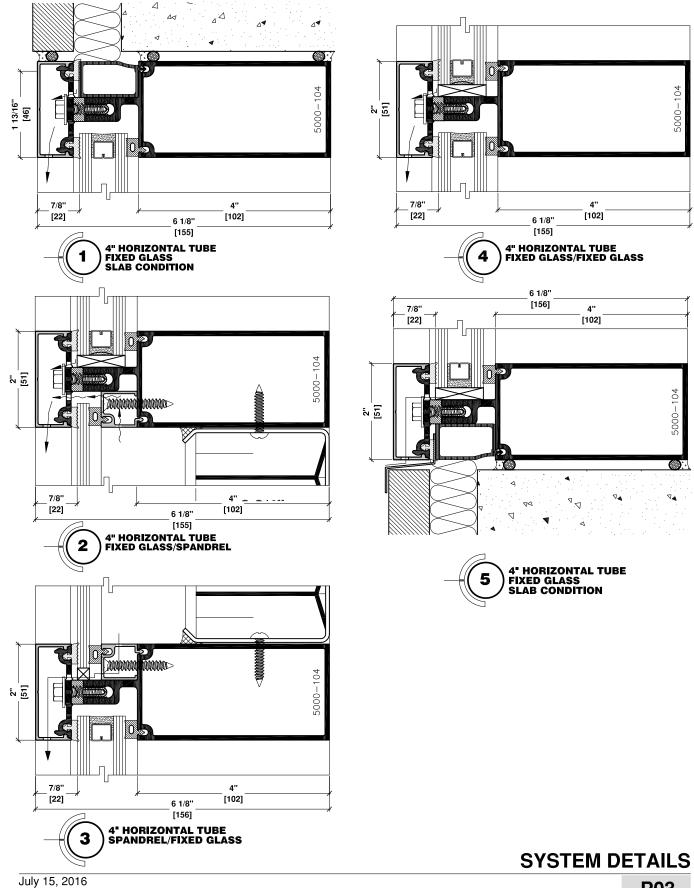


STICK BUILT CURTAIN WALL SYS TEM





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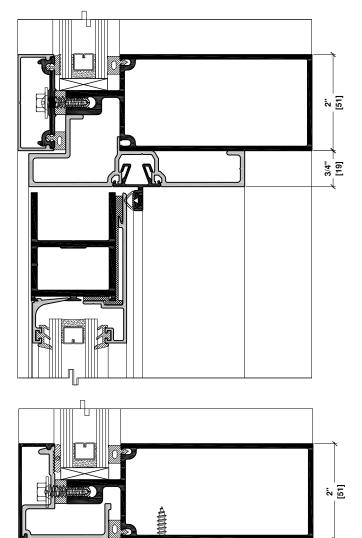


P03



STICK BUILT CURTAIN WALL SYS TEM



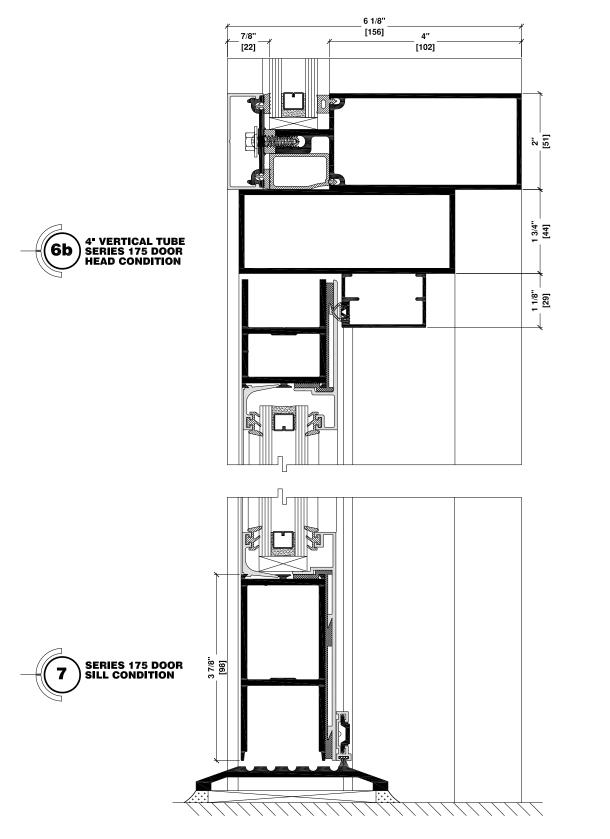


2



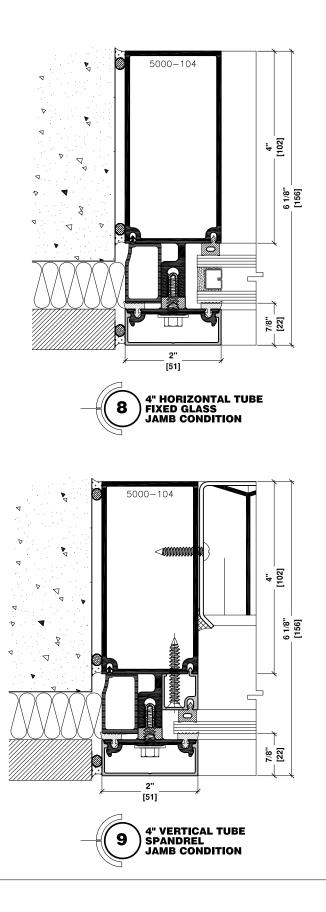


STICK BUILT CURTAIN WALL SYS TEM





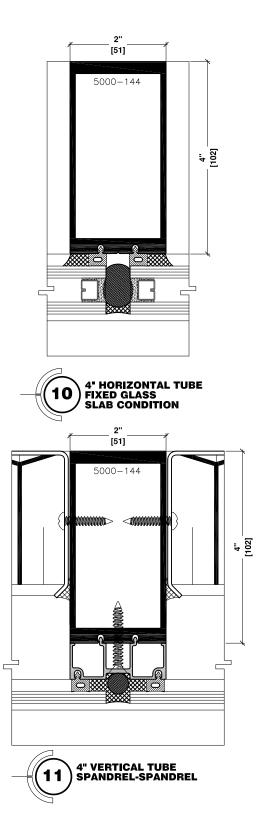
STICK BUILT CURTAIN WALL SYS TEM

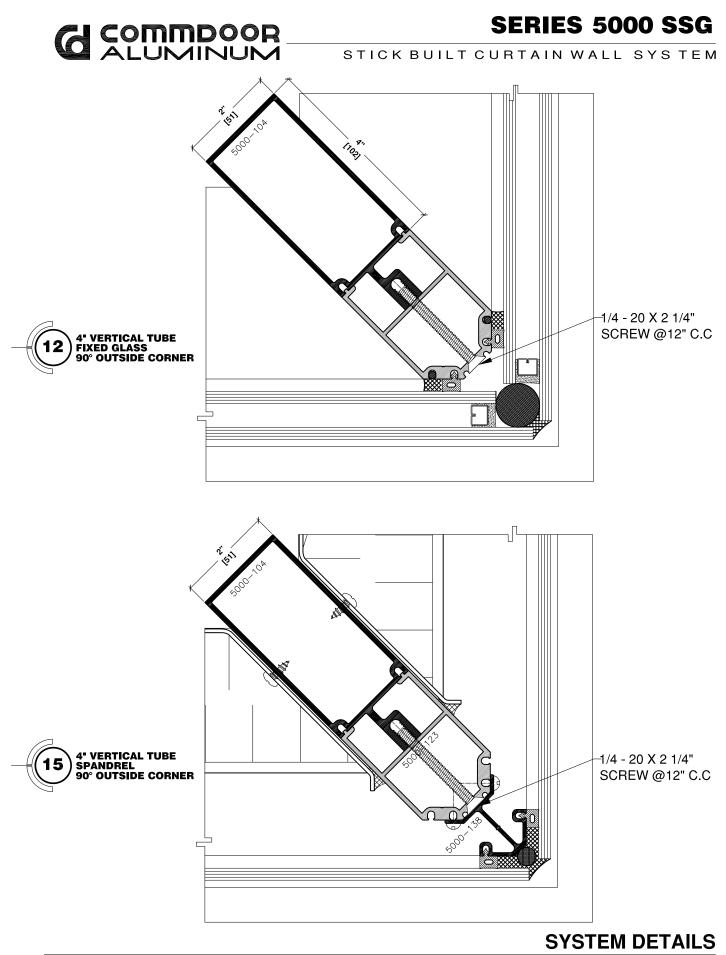


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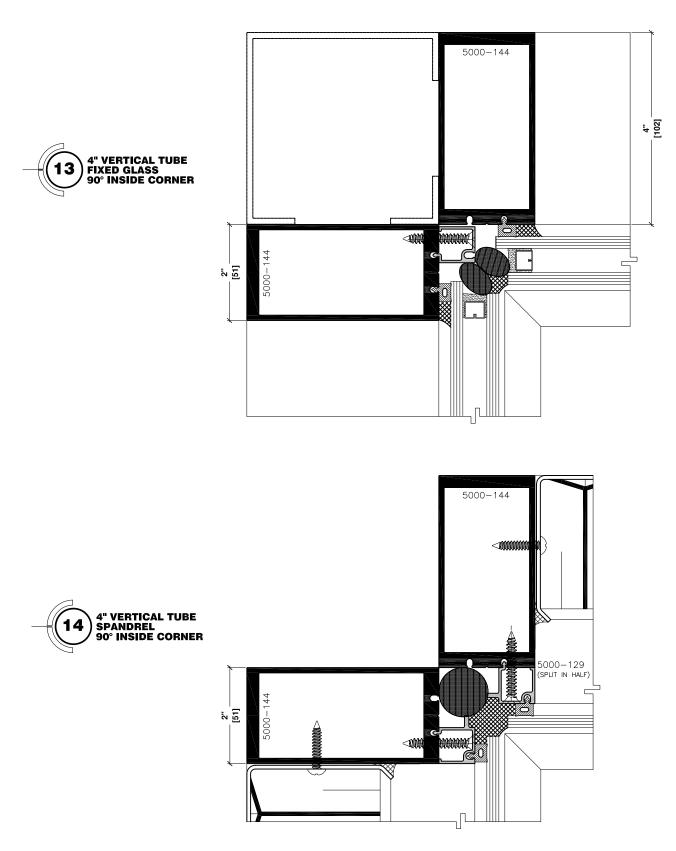
STICK BUILT CURTAIN WALL SYS TEM





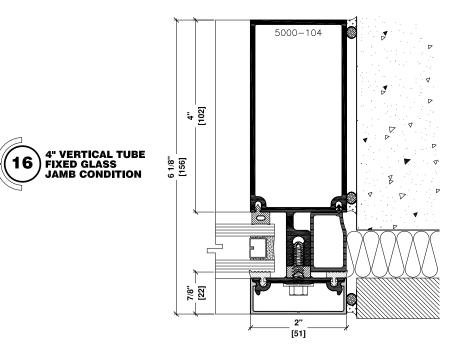


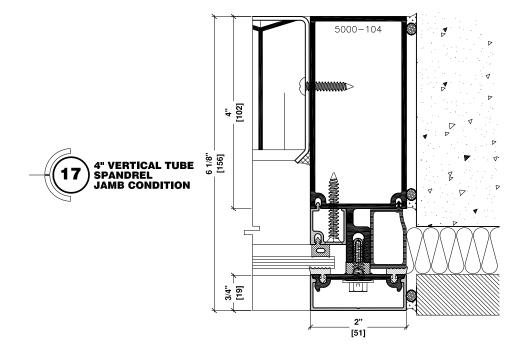
STICK BUILT CURTAIN WALL SYS TEM





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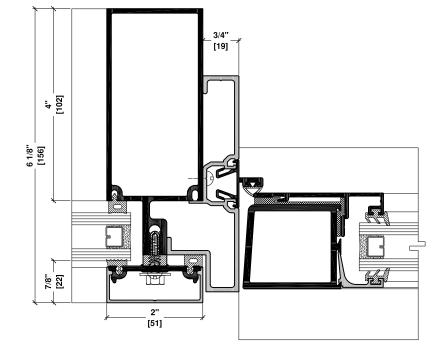




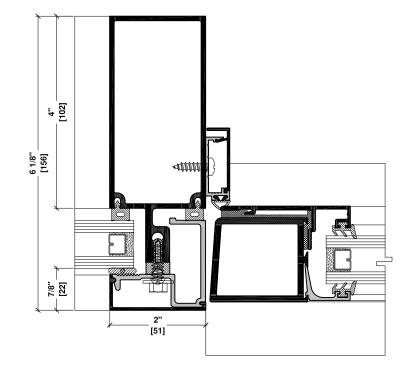


STICK BUILT CURTAIN WALL SYS TEM



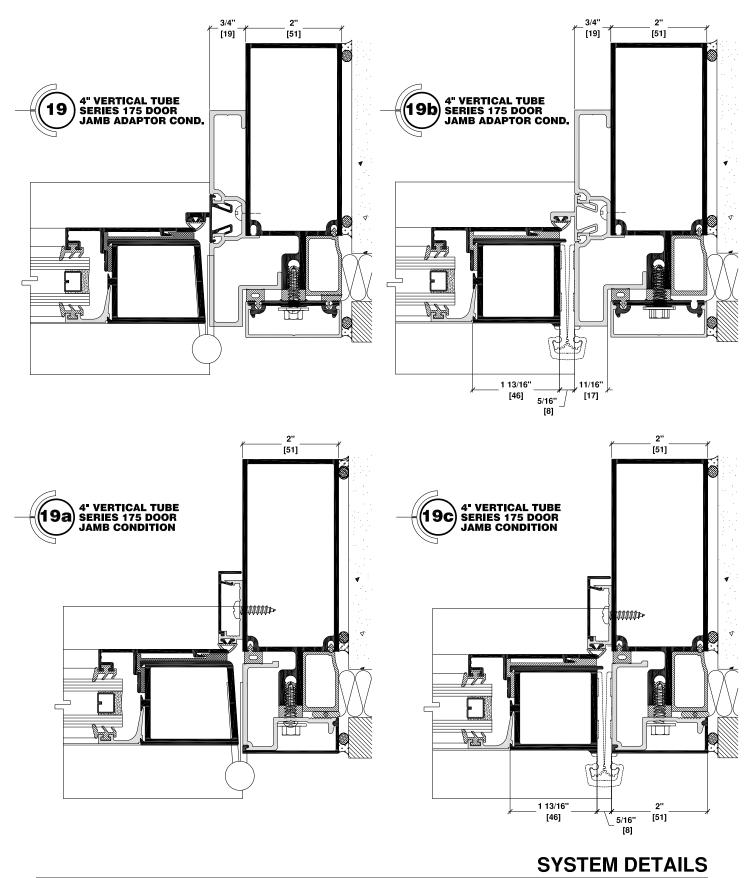








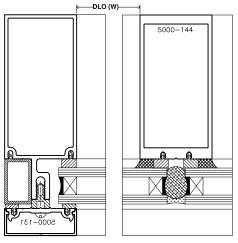
STICK BUILT CURTAIN WALL SYS TEM





STICK BUILT CURTAIN WALL SYS TEM

GLASS CALCULATION

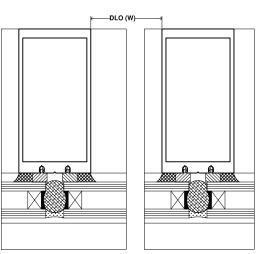


JAMB

1/4" (6mm) 1" (25.4mm) Glass (W)= DLO(W) + 1-¹/₄" (31.75mm)

Note: use the appropriate spline

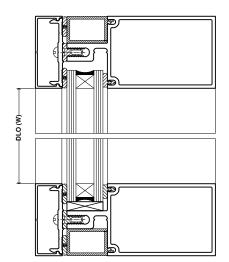




1/4" (6mm)			
1" (25.4mm)			

Glass (W)= DLO(W) + 1-½" (38.1mm)

Note: use the appropriate spline



HORIZONTAL MULLION

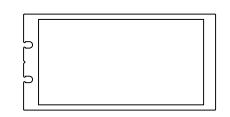
Glass (W)= DLO(W) + 1"(25.4mm) Glass (H)=DLO(H) + 1"(25.4mm)

Note: use the appropriate spline

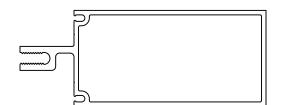
G COMMDOOR

SERIES 5000 SSG

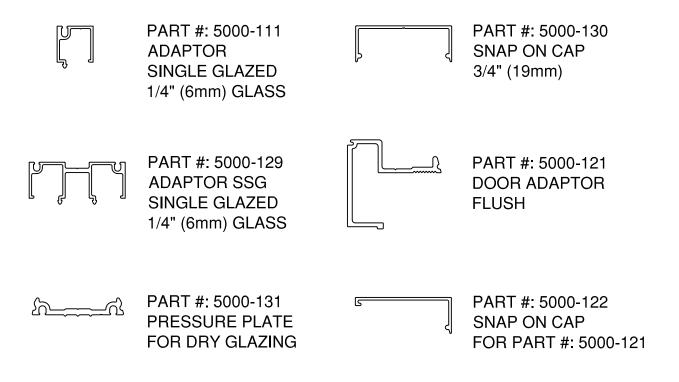
CURTAIN WALL SYSTEM



PART #: 5000-144 MULLION 4" (101.6mm) SSG 2" X 4" (50.8mm X 101.6mm) WIND LOAD CHART



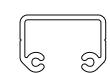
PART #: 5000-104 MULLION 4" (101.6mm) 2" X 4" (50.8mm X 101.6mm) WIND LOAD CHART

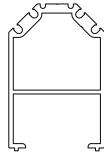


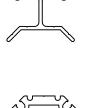
SYSTEM COMPONENTS



PART #: 5000-904 FOR 4" MULLION





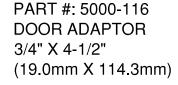




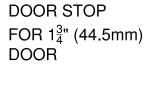
5000 SERIES SHEAR BLOCK

OUTSIDE CORNER

PART #: 5000-138 SINGLE GLAZED ADAPTOR SSG FOR 90° OUTSIDE CORNER



PART #: 1450-015



PART #: 1450-014







DOOR STOP FOR 2" (50.8mm) DOOR

SERIES 5000 SSG

CURTAIN WALL SYSTEM

G COMMDOOR



CURTAIN WALL SYSTEM

DRAWING	DESCRIPTION	APPLICATION	QTY/ JOINT
{ 0000	PART #: 9902-400 # 10 X 1/2" RH SCREW	FASTEN DOOR ADAPTOR TO MULLION	2-3
∑000000000000000>	PART #: 9902-102 # 6 X 1" FH SCREW	FASTEN S. G. ADAPTOR TO MULLION	2 @ 24" C/C
Efmmm>	ART #: 9902-009# 1/4-20 X 1" HEX WASHER MACHINE SCREW	FASTEN PRESSURE PLATE TO MULLION	@ 4" C/C
()00000000000>	PART #: 9902-503 # 10 X 1" PH SCREW	FASTEN SHEAR BLOCK TO VERTICAL	2-3

G COMMDOOR

SERIES 5000 SSG

CURTAIN WALL SYSTEM

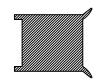
DRAWING

Contract











PART #: 9903-005 THERMAL BREAK SSG (GREY)

PART #: 9903-103 1/4" GLAZING SPLINE

PART #: 9903-104 1/8" GLAZING SPLINE

PART #: 9904-001 1/8" POLYSHIM TAPE BY TREMCO

PART #: 9903-302 CORNER PLUG SSG (GREY) APPLICATION

THERMAL BARRIER

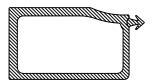
APPLY TO MULLION

APPLY TO PRESSURE PLATE

APPLY TO WET GLAZED PRESSURE PLATE

APPLY ONE TO EACH CORNER

APPLY TO HORIZ. BETWEEN OPENINGS



PART #: 9906-108 POCKET FILLER (GREY)

PART #: 9903-215

SPACER FOR VERT.MULLION

> APPLY INTO THE OUTSIDE POCKET OF EACH PERIMETER

JL

PART #: 9903-138 DOOR BULB SEAL REMOVABLE

PART #: 9903-143-00 BULB-SEAL FOR DOOR STOP APPLY TO THE DOOR STOP

APPLY TO THE DOOR STOP

SYSTEM GLAZING SPLINE AND WEATHERING



STICK BUILT CURTAIN WALL SYS TEM

AWSF TEST RESULTS

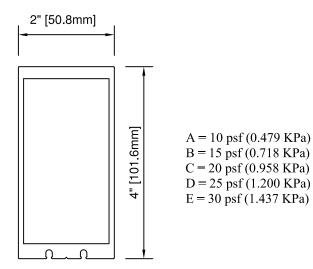
TEST	RESULTS
Air Leakage Rate Test Pressure 300 Pa (5.20 psf)	0.263 m ³ /h/m ² (0.062 ft ³ /min/ft ²)
Water Pressure Achieved	700 Pa (14.62 psf)
Maximum Structural Pressure Achieved	Test Pressure of 2000 Pa (60 psf)

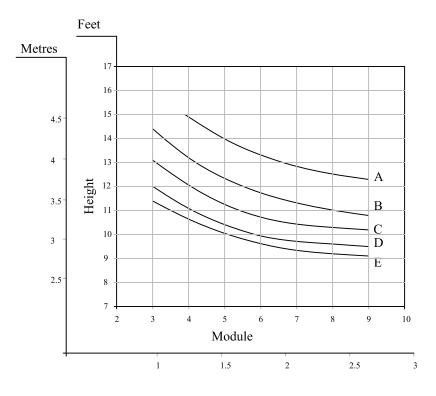
TEST RESULTS-SSG



CURTAIN WALL SYSTEM

5000 -144 MULLION 4"(101.6mm) SSG 2" x 4" (50.8mm x 101.6mm)





WIND LOAD CHARTS

G ALUMINUM

5000 SSG SERIES CURTAIN WALL SYSTEM SPECIFICATION

PART 1 - GENERAL

1.1 Work Included

Furnish labour, materials and services for the complete fabrication, assembly and installation of Series 5000 SSG Framing system manufactured by Commdoor Aluminum. Work to include all necessary accessories, anchors and sealants as required based on the purchase agreement.

1.2 Work Excluded

Structural steel, wood blocking or framing, interior trims, concrete masonry, final cleaning, protection, related work specified elsewhere, convector covers and trims and ceiling trims.

1.3 Design

The 5000 SSG Series Curtain Wall System to be designed based on the "Open Rain Screen" and "Pressure Equalization" principles

1.4 Performance

Deflection of the vertical mullion to be < 1/175 of the span at the specified pressure level.

Permanent Deformation of vertical mullion to be < 0.2 % of the Length of the mullion.

Air Leakage should not exceed $0.06 (ft^3/min)/ft^2$.

1.5 Quality Assurance

The 5000 SSG Series 2" CURTAIN WALL System supplied under this specification must comply to the performance requirements of the Canadian Standards Association CAN3-A440-M90, classification fixed, B7, C5, I=52.1. A copy of the test report from an independent testing laboratory certifying compliance must be furnished upon request by the owner/architect.

1.6 Shop Drawings

All work of this section shall be executed in strict accordance with approved shop drawings.

1.7 Warranty

The work of this section shall be guaranteed against defects of materials and workmanship for a period of one year from date of certificate of substantial completion.

PART 2 - PRODUCTS

2.1 Material

2.1.1 Aluminum Extrusion

A) All extruded aluminum sections to be 6063-T6 alloy or equivalent.

B) Frame members (back section) size will be 4" (101.6mm)only.

2.1.2 Thermal Break

If applicable, extruded virgin polyvinyl chloride (P.V.C).

2.1.3 Glazing Material

Exterior Glazing:

1) Macro-polyisobutylene tape with a continuous built in shim; highly adhesive and elastic, or

2) Extruded thermoplastic elastomers gasket.

Interior Glazing:

Extruded thermoplastic elastomers gasket.

2.1.4 Fasteners

Fasteners shall be zinc plated.

2.2 Fabrication

Fabrication will be carried out according to the approved shop drawings. All joints will be assembled tight using manufactures provided assembly brackets to maintain the product design performance.

2.3 Finish

2.3.1 Anodize

Anodic Oxide Treatments are to be processed in accordance with AAMA designations.

M12C22A31 class II designation is for #17 Clear anodized finish (0.0004). M12C22A41 class I designation is for #14 Clear Anodized finish (0.0007) and colour finishes such as #26 light bronze, #40 bronze and #29 black.

2.3.2 Paint

Thermosetting Acrylic Enamel coating are to be applied in accordance with AAMA 603.8. Specify colour and type from PPG. Standard charts.

2.3.3 Fluoropolymer paint Coating

Based on Kynar 500 Resins are to be applied in accordance AAMA 605.2. Specify colour from Valspar current chart.

PART 3 - EXECUTION

3.1 Protection

Aluminum shall be isolated from concrete, mortar, plaster and dissimilar materials with a coating of Bituminous paint.

Exposed aluminum surface shall be protected from long term contamination of mortar,

concrete, paint, mud, etc.

Doors and door frames shall be protected from impact damage by wood sheathing and plastic wraps.

3.2 Installation

Commdoor products to be installed according to manufacturers instructions and in conjunction with approved shop drawings. The work shall be performed by qualified skilled personnel using proper equipment in order to expedite the project in an efficient professional manner.

3.3 Cleaning

Interim and final cleaning shall be performed in accordance with the general conditions listing methods outlined in AAMA 609 & 610-02 (2002).