Series 9003, 9203 & 9603
Comparison Data Sheet – Triple Glazed

Energy Value Comparison

The energy values provided below are based on fenestration values, not the centre of glass values.

Vision Glazing – x 1 Low E Coating

Using 6mm with standard low E #2 / 4mm clear / 4mm clear with argon fill and warm edge spacers.

SERIES	9003			9203			9603		
Energy	U_{fen} W/m²k	U_{fen} Btu/hft²F	$SHGC_{fen}$	U_{fen} W/m²k	U_{fen} Btu/hft²F	$SHGC_{fen}$	U_{fen} W/m²k	U_{fen} Btu/hft²F	$SHGC_{fen}$
Fixed	1.41	0.25	0.23	1.28	0.23	0.30	1.36	0.24	0.30
Operable	2.12	0.37	0.25	1.87	0.33	0.25	1.63	0.29	0.24

Vision Glazing – x 2 Low E Coatings

Using 6mm with standard low E #2 / 4mm with standard low E #4 / 4mm clear with argon fill and warm edge spacers.

SERIES	9003			9203			9603		
Energy	U_{fen} W/m²k	U_{fen} Btu/hft²F	$SHGC_{fen}$	U_{fen} W/m²k	U_{fen} Btu/hft²F	$SHGC_{fen}$	U_{fen} W/m²k	U_{fen} Btu/hft²F	$SHGC_{fen}$
Fixed	1.10	0.19	0.26	0.97	0.17	0.26	1.06	0.19	0.26
Operable	1.87	0.33	0.22	1.63	0.29	0.21	1.39	0.24	0.21

Opaque Areas

The R-Values noted below are based on using either spandrel glass, or various metal panel options on the exterior and an aluminum or galvanized back pan on the interior. **Note:** There is no back pan at bypass.

SERIES	9003		9203		9603	
Slab Nominal Support[1]	2 1/8”	1 1/8”	2 1/8”	1 1/8”	2 1/8”	1 1/8”
Opaque Areas[2]	R7	R7	R9	R9	R11[3]	R11[3]
Bypass[2]	R3	R6	R3	R6	R6	R9

[1] **Note:** Refer to detail page 9.1 for the 2 1/8” nominal support details and 9.2 for the 1 1/8” nominal support details, for the three above noted window wall systems. The 1 1/8” nominal support details provide an additional 1” of continuous mineral wool at the slab edge compared to the 2 1/8” nominal support details.

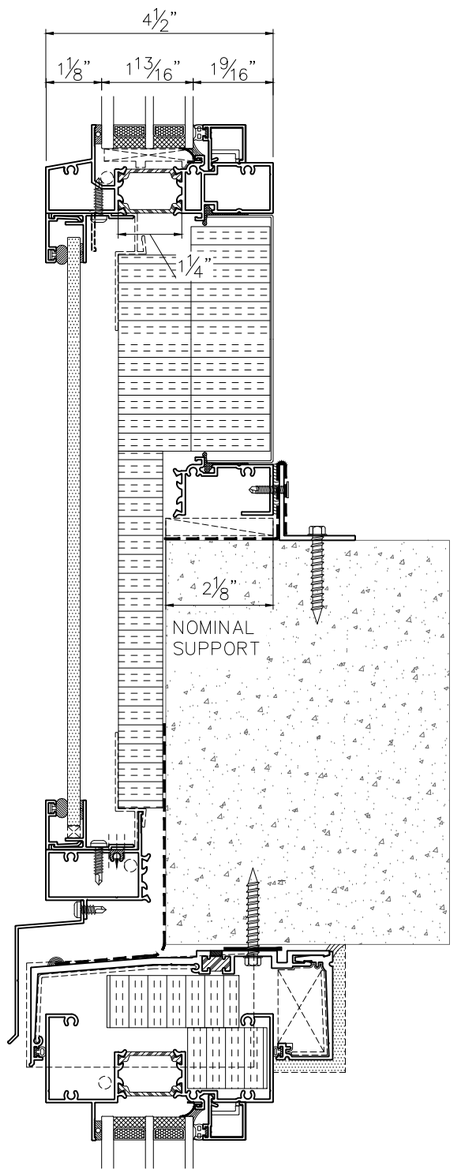
[2] **Note:** The exact R-Value will vary slightly depending on the exact opaque matrix – Spandrel glass, flush metal panel, raised metal panel, and an aluminum or galvanized back pan can result in the overall R-Value to vary by ~R0.5.

[3] **Note:** Option to reduce the mineral wool from 4 1/2" to 3” to achieve an R8, should R8 meet the project specific energy requirements.

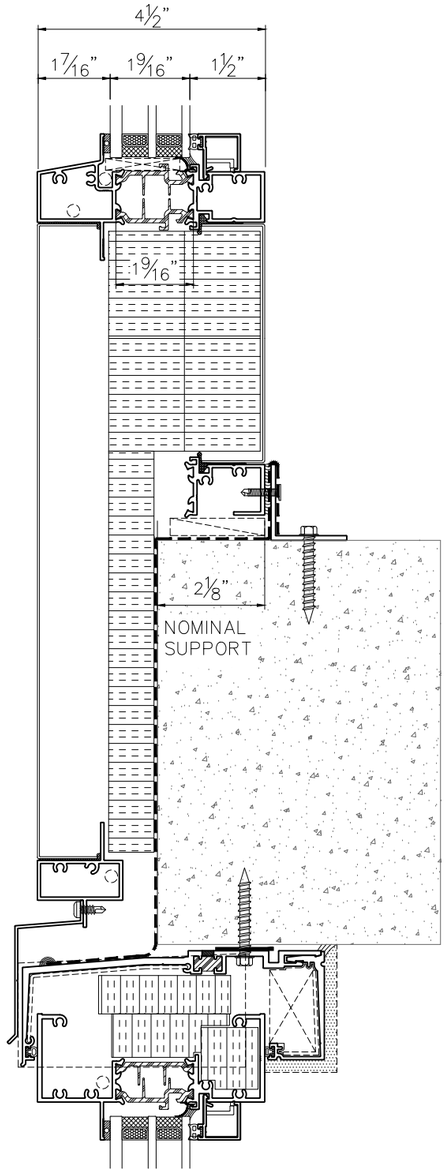
Main Differences Between the Series

The below table provides the main changes between the series 9003, 9203 and 9603.

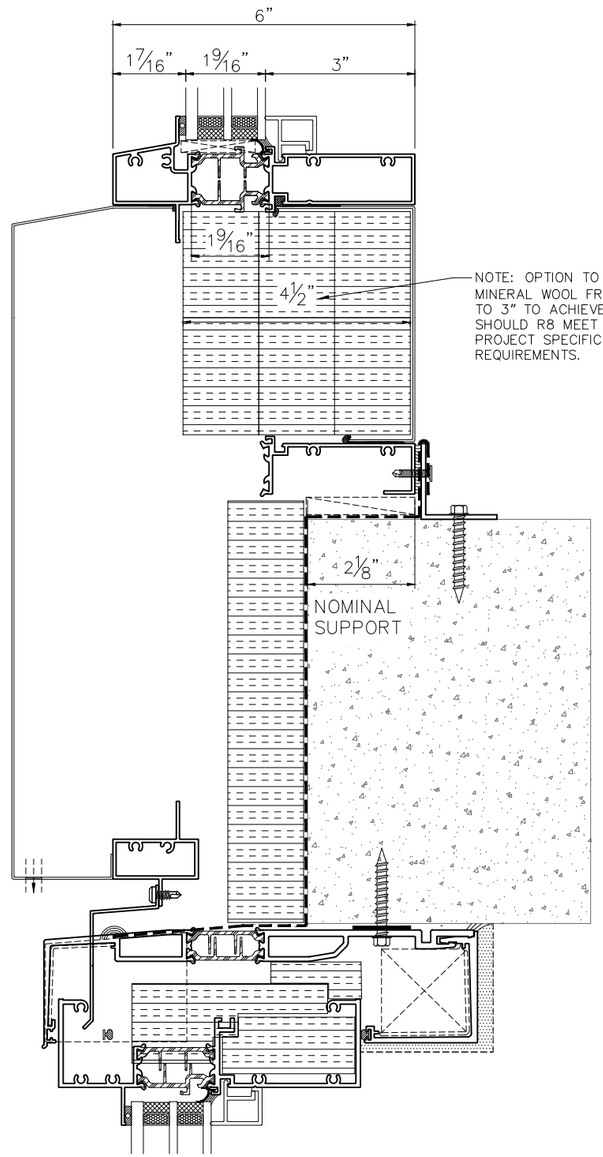
9003	9203	9603
1 13/16” (46mm) IGU	1 9/16”” (40mm) IGU	1 9/16” (40mm) IGU
1 1/4” (32mm) Thermal Break (TB)	1 9/16” (39mm) Multi Chamber TB	1 9/16” (39mm) Multi Chamber TB
4 1/2" deep system Exterior face of mullion to IGU = 1 1/8” Interior face of mullion to IGU = 1 9/16”	4 1/2" deep system Exterior face of mullion to IGU = 1 7/16” Interior face of mullion to IGU = 1 1/2”	6" deep system Exterior face of mullion to IGU = 1 7/16” Interior face of mullion to IGU = 3”



1 9003 SERIES WITH SPANDREL GLASS



2 9203 SERIES WITH ALUMINUM PANEL



3 9603 SERIES WITH 2" RMP

STARLINE WINDOWS
19091 36th Avenue,
Surrey, B.C. V3Z 0P6
Phone: (604) 882-6855
Fax: (604) 882-6890
Website: www.starlinewindows.com

NOTE:THE WINDOW/DOOR INSTALLATION DETAILS SHOWN HERE ARE A SUGGESTED METHOD OF INSTALLATION. PLEASE CHECK WITH YOUR WATER PROOFING/BUILDING ENVELOPE CONSULTANT FOR AN INSTALLATION METHOD APPROPRIATE FOR YOUR BUILDING AND ENVELOPE.

PROJECT:

TITLE: SERIES 9003, 9203, & 9603 BYPASS COMPARISION DETAILS - 2 1/8" NOMINAL SUPPORT

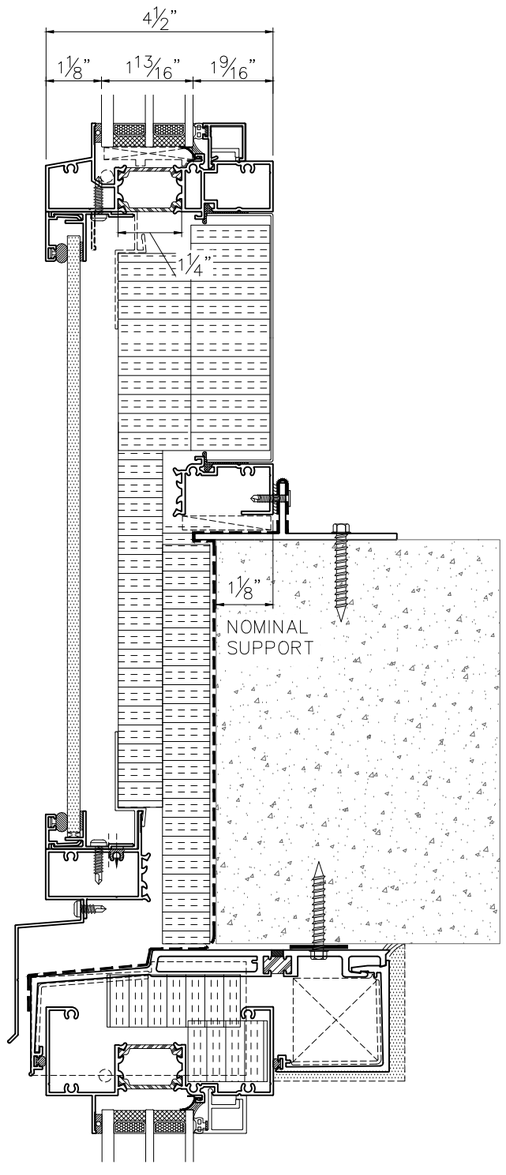
SCALE: 4"-1'-0"

ORIGINAL DRAWING DATE: March 18, 2022

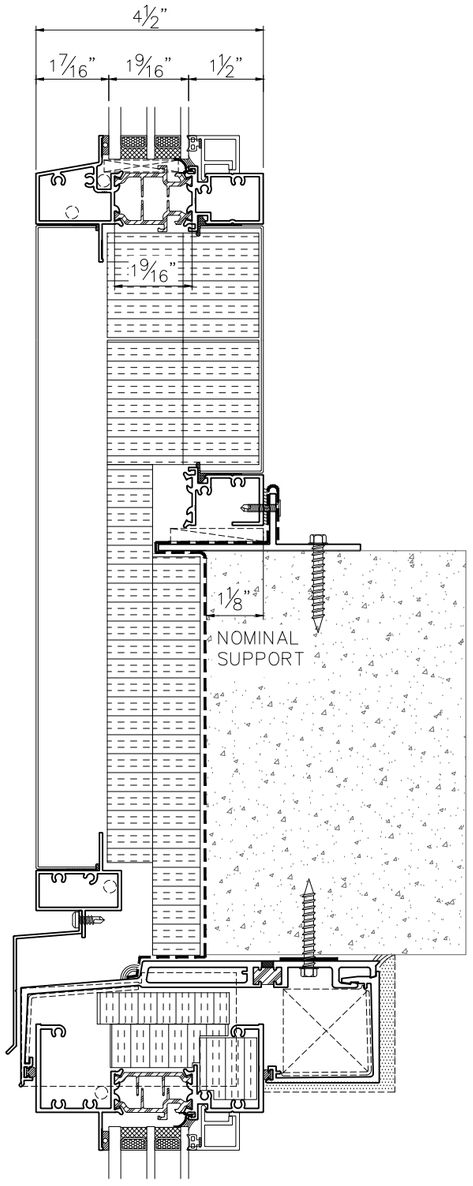
DRAWN BY: TK

PJT No.:

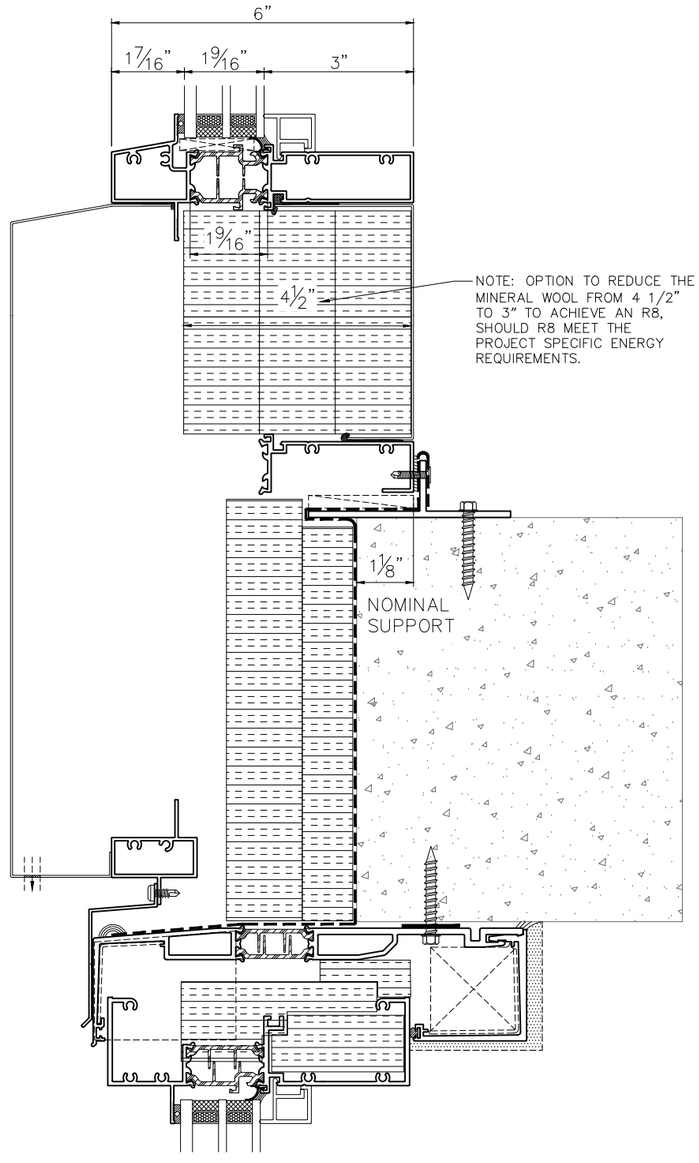
PAGE: 9.1



1 9003 SERIES WITH SPANDREL GLASS



2 9203 SERIES WITH ALUMINUM PANEL



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PROJECT:

TITLE: SERIES 9003, 9203, & 9603 BYPASS COMPARISION DETAILS - 1 1/8" NOMINAL SUPPORT

SCALE: 4"-1'-0"

ORIGINAL DRAWING DATE: March 18, 2022

DRAWN BY: TK

PJT No.:

PAGE: 9.2