

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 ¹			9203			9603		
	U _{fen}		SHGC _{fen}	U _{fen}		SHGC _{fen}	U _{fen}		SHGC _{fen}
Energy	W/m ² k	Btu/hft ² F		W/m ² k	Btu/hft ² F		W/m ² k	Btu/hft ² F	
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 ¹			9203			9603		
	U _{fen}		SHGC _{fen}	U _{fen}		SHGC _{fen}	U _{fen}		SHGC _{fen}
Energy	W/m ² k	Btu/hft ² F		W/m ² k	Btu/hft ² F		W/m ² k	Btu/hft ² F	
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 ¹		9203		9603	
Slab Nominal Support ²	2 1/8"	1 1/8"	2 1/8"	1 1/8"	2 1/8"	1 1/8"
Opaque Areas ³	R8	R8	R11	R11	R13 ⁴	R13 ⁴
Bypass ³	R3	R7	R4	R8	R8	R12

¹ **Note:** This series may not be available. Please contact Starline Windows to discuss the use of the 9003 series on a project specific basis.

² **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.

³ **Note:** The exact R-Value will vary slightly depending on the exact opaque matrix – The exterior opaque option and an aluminum or galvanized back pan can result in the overall R-Value to vary by +/- R1.

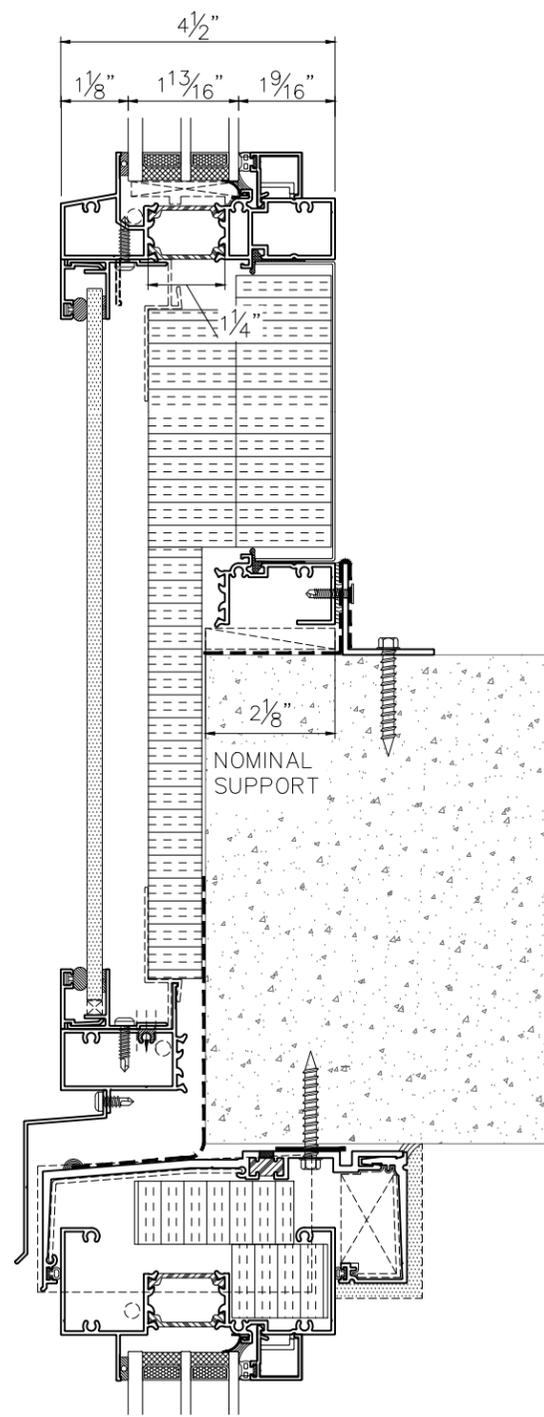
⁴ **Note:** Option to reduce the mineral wool from 4 1/2" to 3" to achieve an R8, should R8 meet the project specific energy requirements.

Main Differences Between the Series

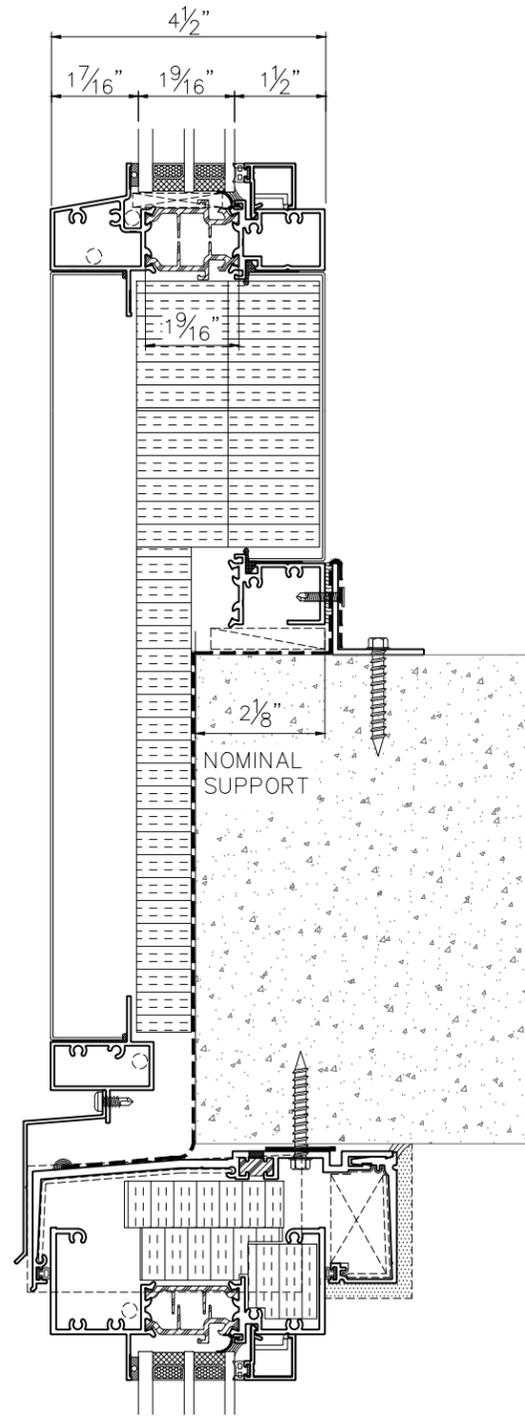
The below table provides the main changes between the series 9003, 9203 and 9603.

9003 ¹	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"

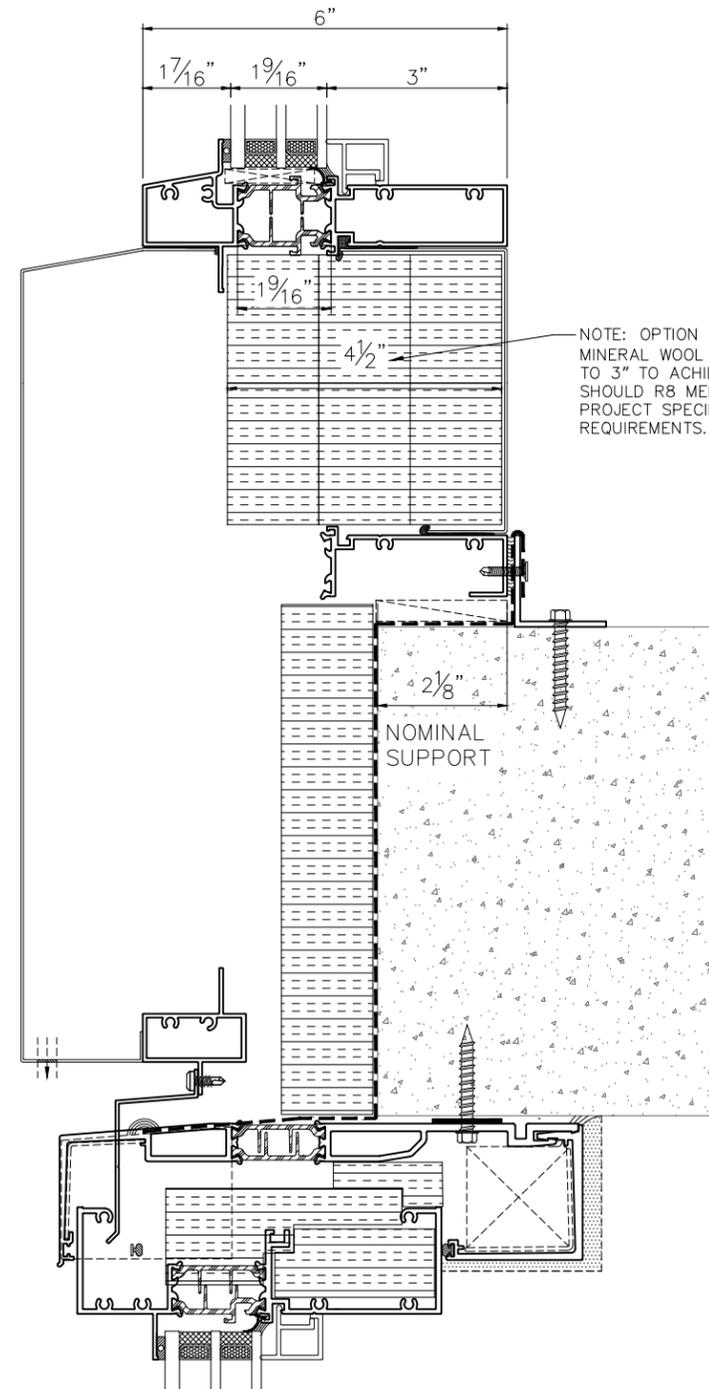
¹ **Note:** This series may not be available. Please contact Starline Windows to discuss the use of the 9003 series on a project specific basis.



1 9003 SERIES WITH SPANDREL GLASS

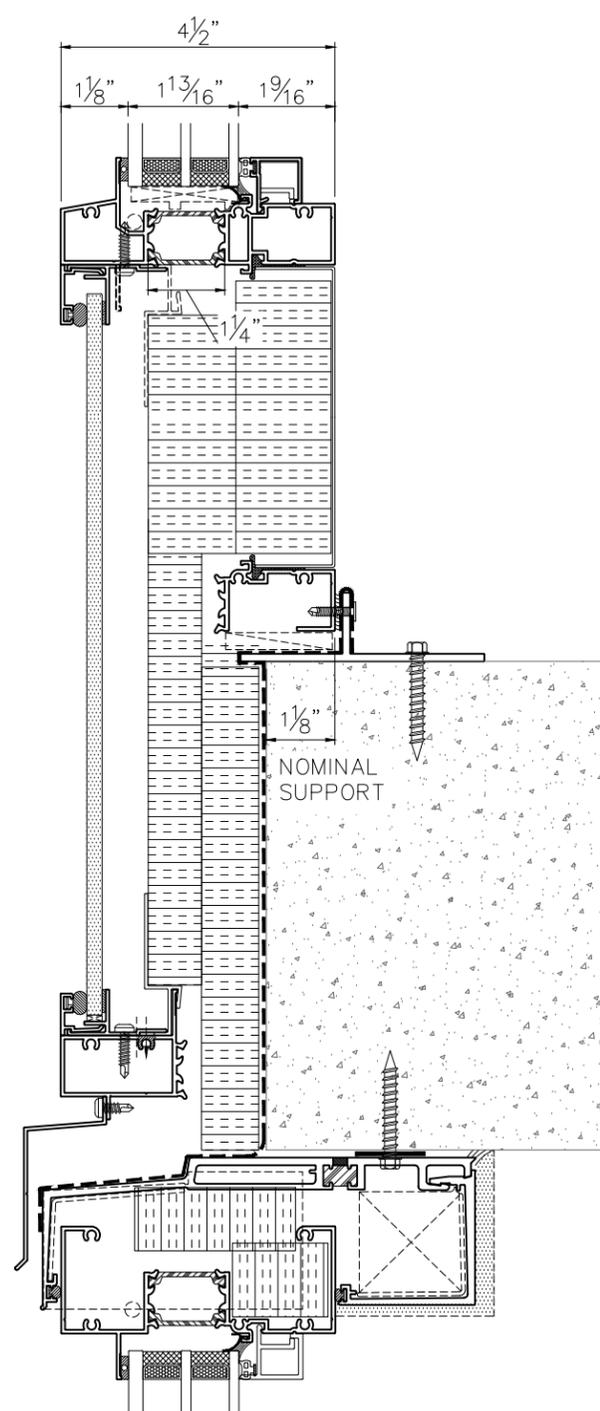


2 9203 SERIES WITH ALUMINUM PANEL

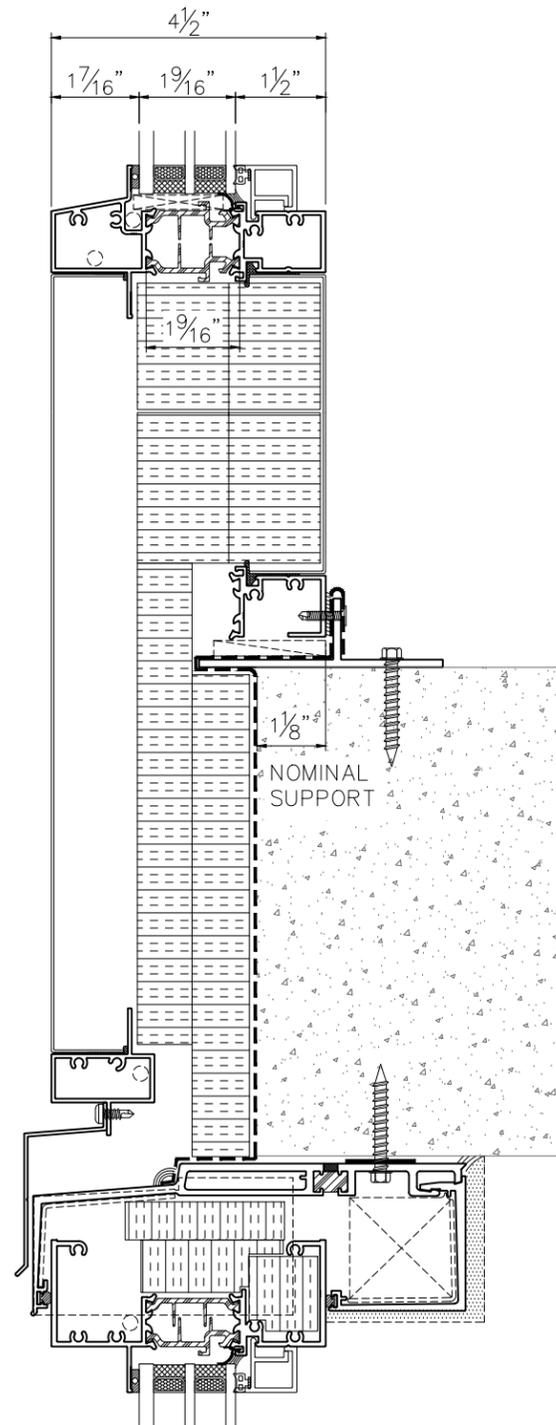


3 9603 SERIES WITH 2" RMP

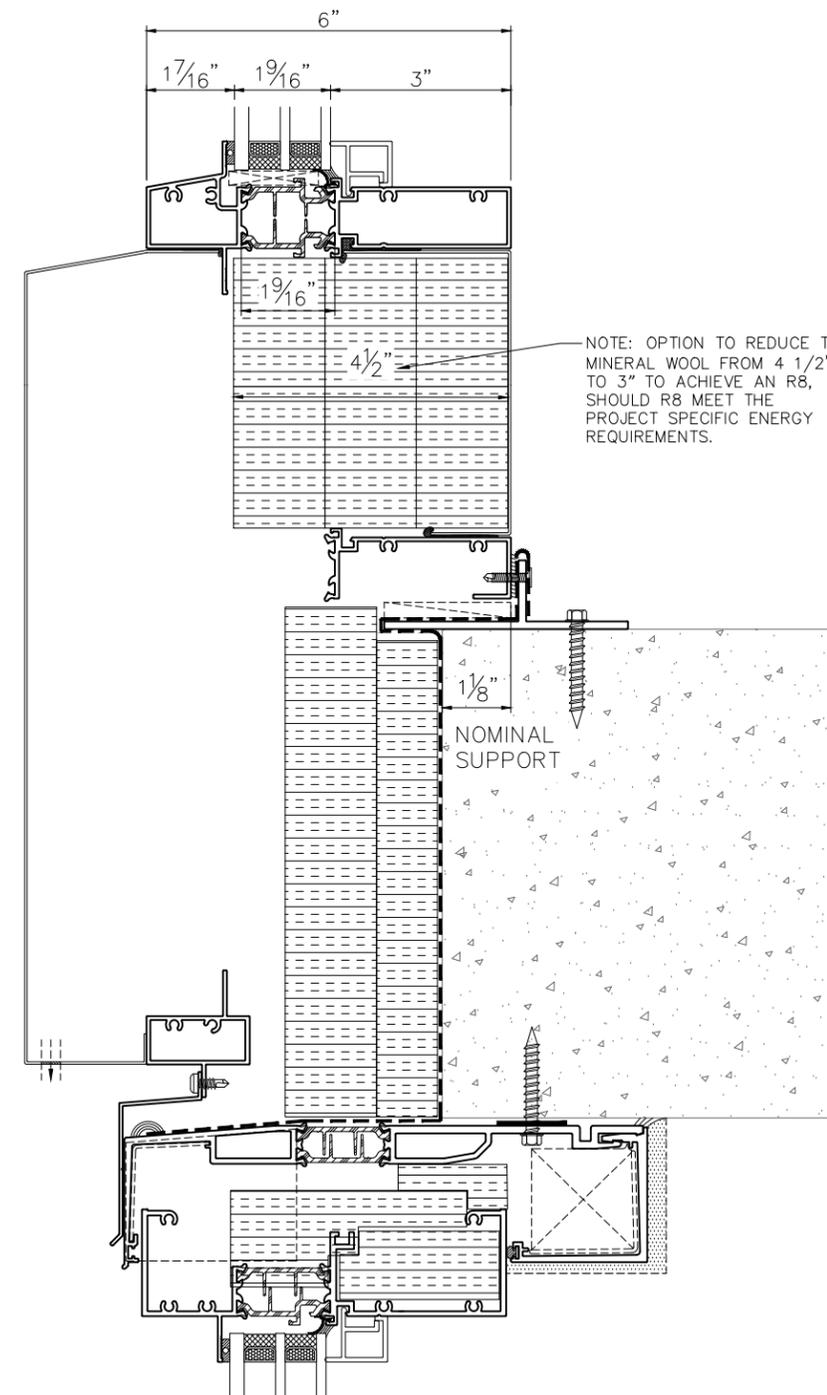
NOTE: OPTION TO REDUCE THE MINERAL WOOL FROM 4 1/2" TO 3" TO ACHIEVE AN R8, SHOULD R8 MEET THE PROJECT SPECIFIC ENERGY REQUIREMENTS.



1 9003 SERIES WITH SPANDREL GLASS



2 9203 SERIES WITH ALUMINUM PANEL



3 9603 SERIES WITH 2" RMP

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.