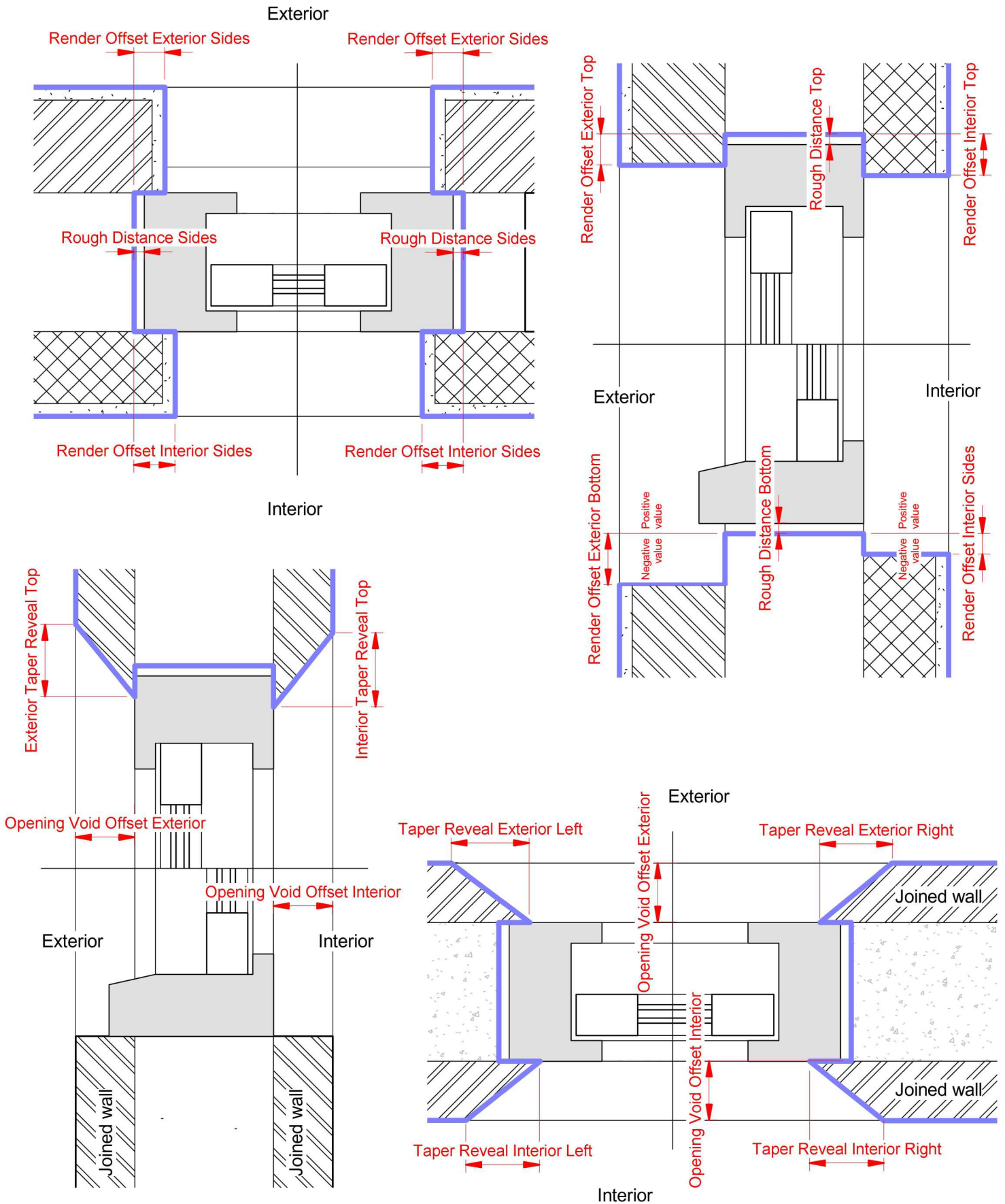


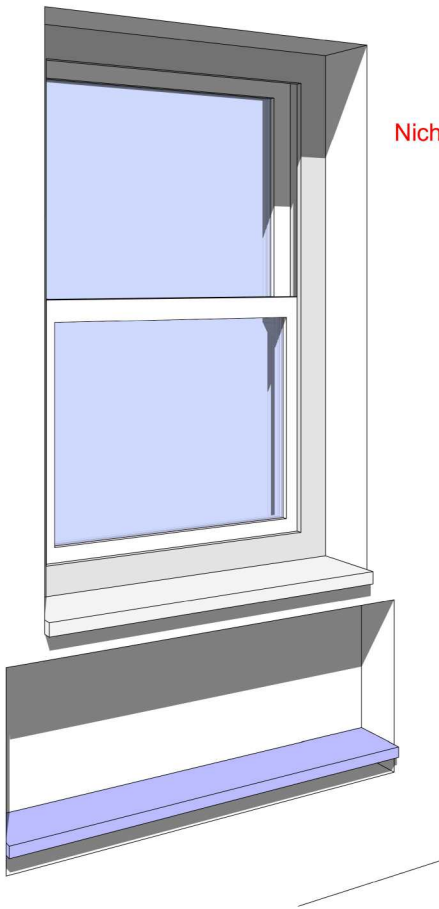


Professional Revit Families

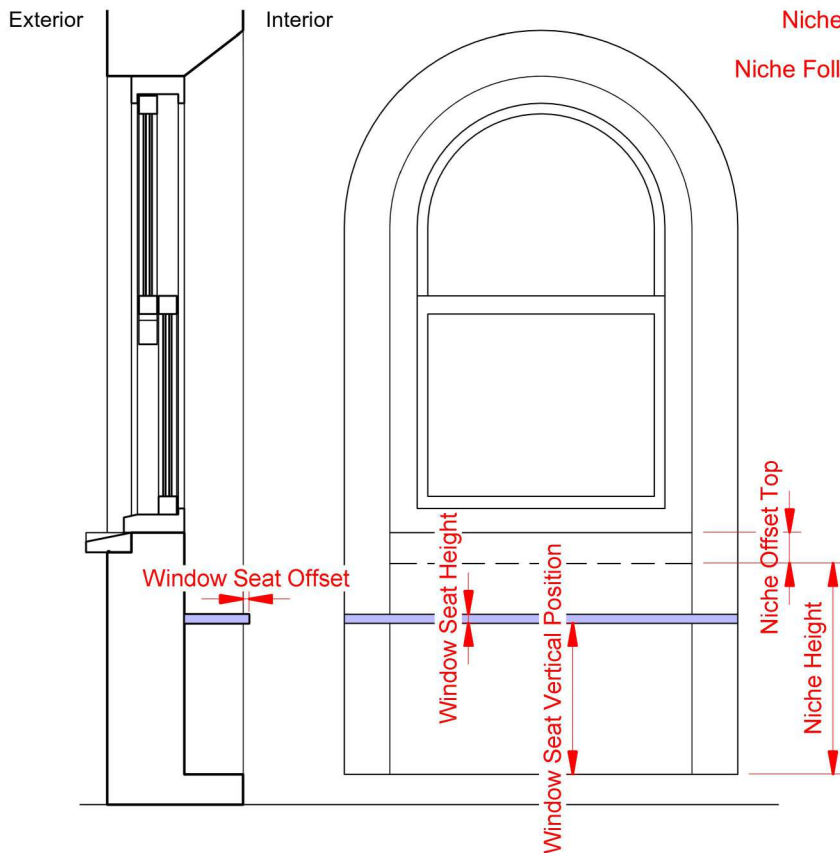
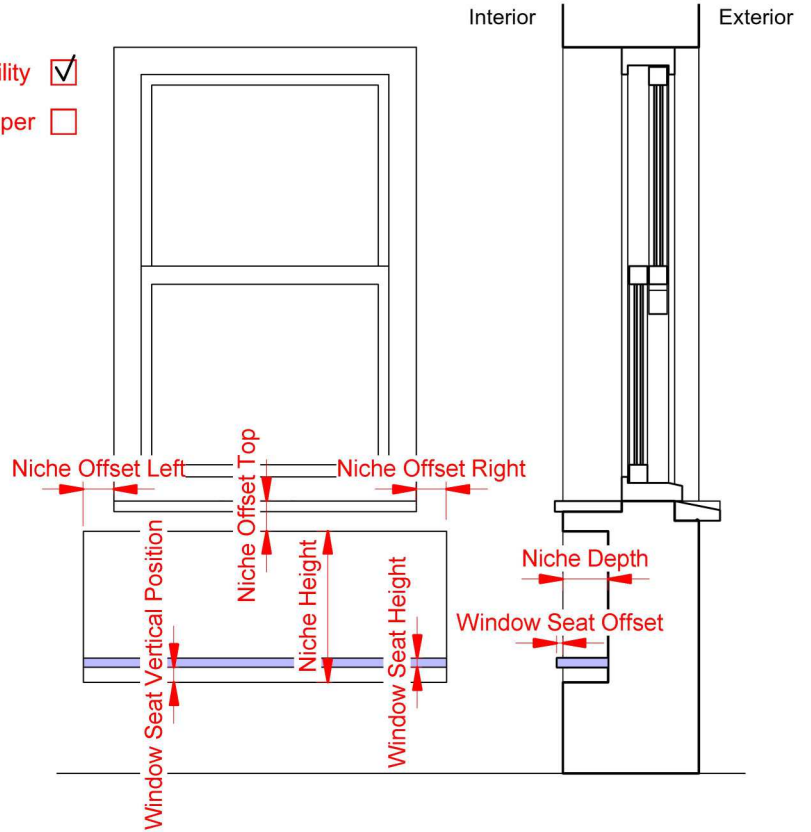
No	Parameters	Page	Type
Constraints			
1	Niche Follow Taper	2	Yes/No - Instance
2	Opening Lines	15	Yes/No - Instance
3	Sash Height Including Arc	6	Yes/No - Type
4	Sash Opening Bottom %	4	Integer - Type
5	Sash Opening Top %	4	Integer - Type
Dimensions			
6	Width	5, 6, 7, 8, 9, 10	Length - Type
7	Height	5, 6, 7, 8, 9, 10	Length - Type
8	Arc Height	9, 9, 10	Length - Type
9	Bay Frame Depth	12	Length - Instance
10	Bay Frame Miter Angle Left	12	Angle - Instance
11	Bay Frame Miter Angle Right	12	Angle - Instance
12	Bay Frame Width Interior Left	12	Length - Instance
13	Bay Frame Width Interior Right	12	Length - Instance
14	Frame Lining Offset Inwards	5, 6, 7, 8, 9, 10, 10	Length - Type
15	Frame Lining Offset Outwards	5, 6, 7, 8, 9, 10, 10	Length - Type
16	Frame Lining Glaze Thickness	5, 6, 7, 8, 9, 10, 10	Length - Type
17	Frame Position	5, 6, 7, 8, 9, 10, 10	Length - Instance
18	Frame Sill Angle	5, 6, 7, 8, 9, 10, 10	Length - Type
19	Frame Sill Height	5, 6, 7, 8, 9, 10, 10	Length - Type
20	Frame Sill Offset	5, 6, 7, 8, 9, 10, 10	Length - Type
21	Frame Upstand Height	5, 6, 7, 8, 9, 10, 10	Length - Type
22	Frame Width	5, 6, 7, 8, 9, 10, 10	Length - Type
23	Glaze Position	11	Length - Type
24	Glaze Space	11	Length - Type
25	Glaze Thickness	11	Length - Type
26	Glazing Bar Count Bottom Sash Horizontal	11	Integer - Type
27	Glazing Bar Count Bottom Sash Vertical	11	Integer - Type
28	Glazing Bar Count Top Sash Horizontal	11	Integer - Type
29	Glazing Bar Count Top Sash Vertical	11	Integer - Type
30	Glazing Bar Depth	11	Length - Type
31	Glazing Bar Width	11	Length - Type
32	Niche Depth	2	Length - Instance
33	Niche Height	2	Length - Instance
34	Niche Offset Left	2	Length - Instance
35	Niche Offset Right	2	Length - Instance
36	Niche Offset Top	2	Length - Instance
37	Opening Void Offset Exterior	1	Length - Instance
38	Opening Void Offset Interior	1	Length - Instance
39	Render Offset Exterior Bottom	1	Length - Type
40	Render Offset Exterior Sides	1	Length - Type
41	Render Offset Exterior Top	1	Length - Type
42	Render Offset Interior Bottom	1	Length - Type
43	Render Offset Interior Sides	1	Length - Type
44	Render Offset Interior Top	1	Length - Type
45	Rough Distance Bottom	1	Length - Type
46	Rough Distance Sides	1	Length - Type
47	Rough Distance Top	1	Length - Type
48	Sash Height Bottom %	6	Integer - Type
49	Sash Height Top %	6	Integer - Type
50	Sash Horn Height	7	Length - Type
51	Sash Panel Bottom Frame Width Bottom	5, 6, 7, 8, 9, 10	Length - Type
52	Sash Panel Frame Depth	5, 6, 7, 8, 9, 10	Length - Type
53	Sash Panel Frame Spacing	5, 6, 7, 8, 9, 10	Length - Type
54	Sash Panel Frame Width	5, 6, 7, 8, 9, 10	Length - Type
55	Sash Weight Radius	8, 8, 10	Length - Type
56	Sill Exterior Angle	10	Length - Type
57	Sill Exterior Depth	10	Length - Type
58	Sill Exterior Drip Position	10	Length - Type
59	Sill Exterior Drip Radius	10	Length - Type
60	Sill Exterior Height	10	Length - Type
61	Sill Exterior Offset Sides	10	Length - Type
62	Sill Exterior Offset Vertical	10	Length - Type
63	Sill Exterior Stone Edge Offset Side	10	Length - Type
64	Sill Interior Height	10	Length - Type
65	Sill Interior Offset From Wall	10	Length - Type
66	Sill Interior Offset Side	10	Length - Type
67	Sill Interior Offset Vertical	10	Length - Type
68	Taper Reveal Exterior Left	1	Length - Type
69	Taper Reveal Exterior Right	1	Length - Type
70	Taper Reveal Exterior Top	1	Length - Type
71	Taper Reveal Interior Left	1	Length - Type
72	Taper Reveal Interior Right	1	Length - Type
73	Taper Reveal Interior Top	1	Length - Type
74	Trim Thickness	9	Length - Instance
75	Trim Width Bottom	9	Length - Instance
76	Trim Width Sides	9	Length - Instance
77	Trim Width Top	9	Length - Instance
78	Window Seat Height (default)	2	Length - Instance
79	Window Seat Offset (default)	2	Length - Instance
80	Window Seat Vertical Position (default)	2	Length - Instance

No	Parameters	Page	Type
Visibility			
81	Bay Frame Visibility	12	Yes/No - Instance
82	Double Glazing Visibility	11	Yes/No - Instance
83	Frame Arc Filling Visibility	4	Yes/No - Type
84	Niche Visibility	2	Yes/No - Instance
85	Sash Horns Visibility	7	Yes/No - Type
86	Sash Weights Visibility	4	Yes/No - Type
87	Sill Exterior Visibility	10	Yes/No - Instance
88	Sill Interior Visibility	10	Yes/No - Instance
89	Trim Visibility	9	Yes/No - Type
Schedule			
90	.Arc Window		Yes/No - Type
91	.Bay Frame		Yes/No - Instance
92	.Frame Depth		Length - Type
93	.Rough Width		Length - Type
94	.Rough Height		Length - Type
95	.Panel Double Glazing		Yes/No - Type
96	.Sash Panel Thickness		Length - Type
97	.Sash Weights		Yes/No - Type

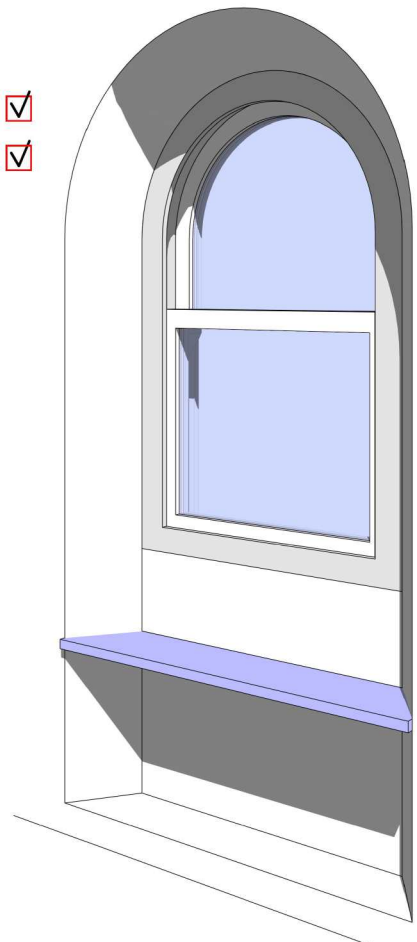




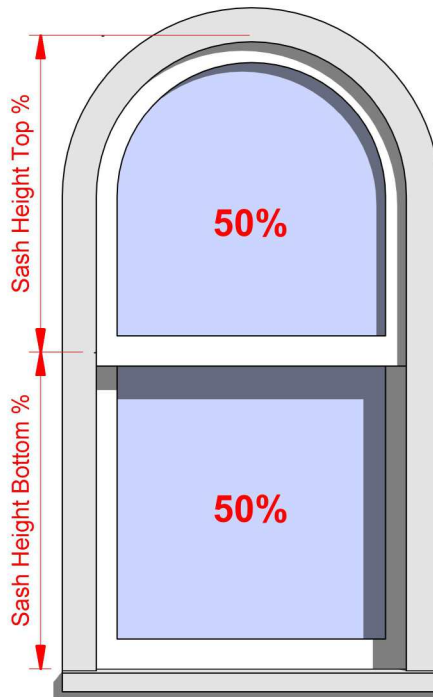
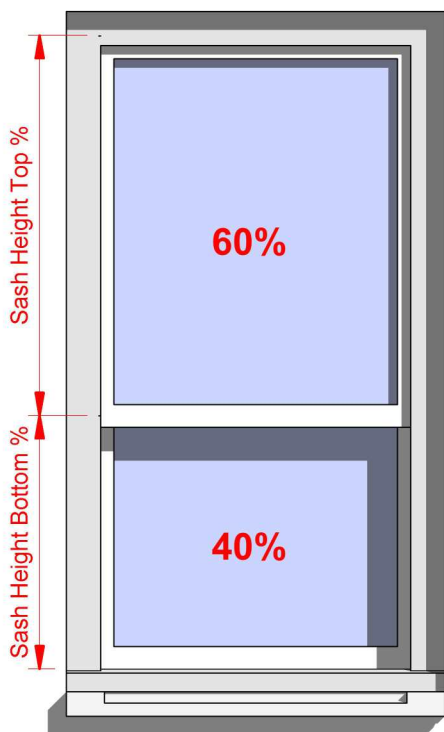
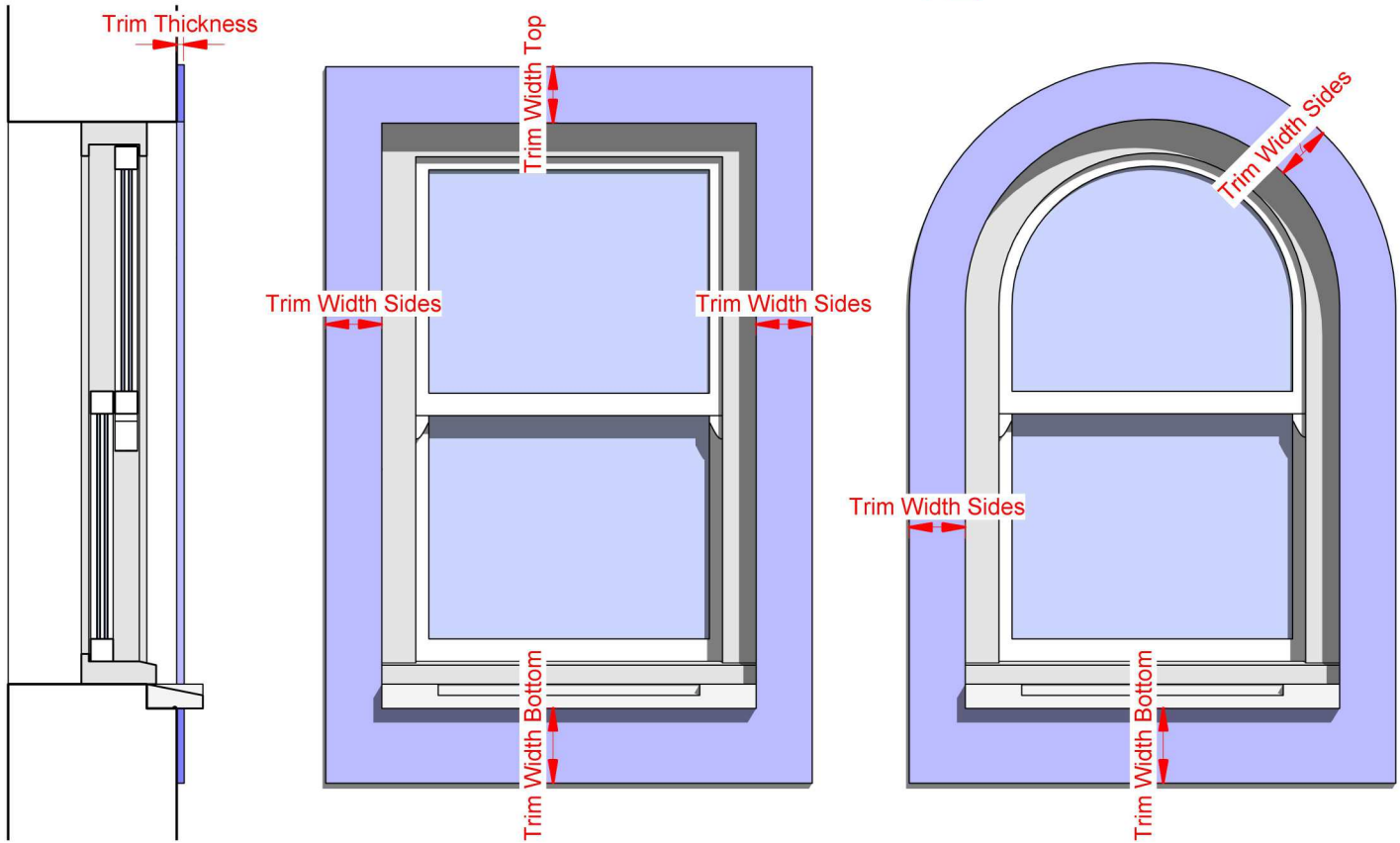
- Niche Visibility
- Niche Follow Taper



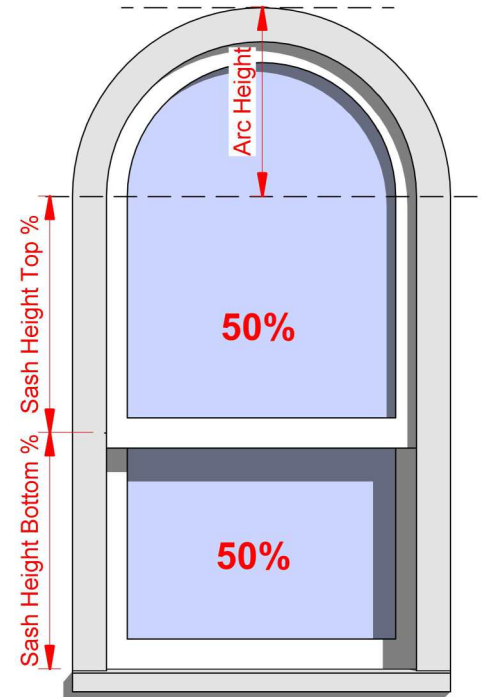
- Niche Visibility
- Niche Follow Taper



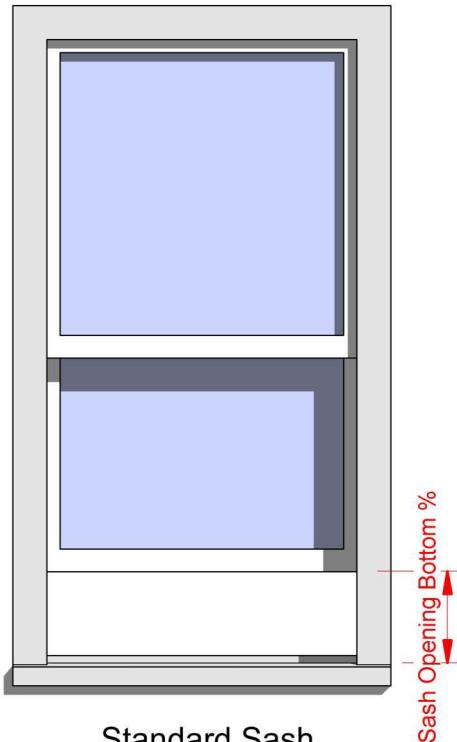
Trim Visibility



Sash Height Including Arc



Sash Height Including Arc



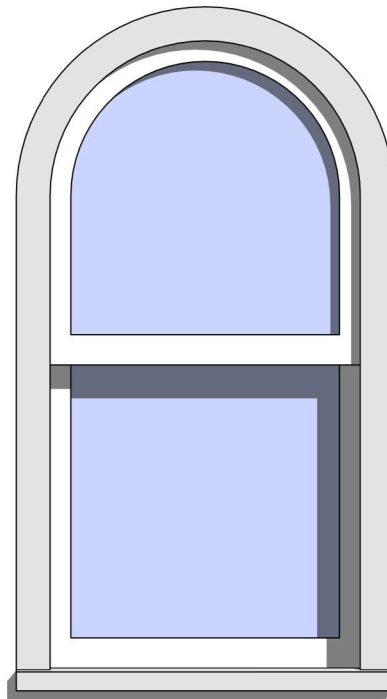
Standard Sash

Frame Arc Filling Visibility

Sash Weights Visibility

Arc Height = 0

Details - page 5



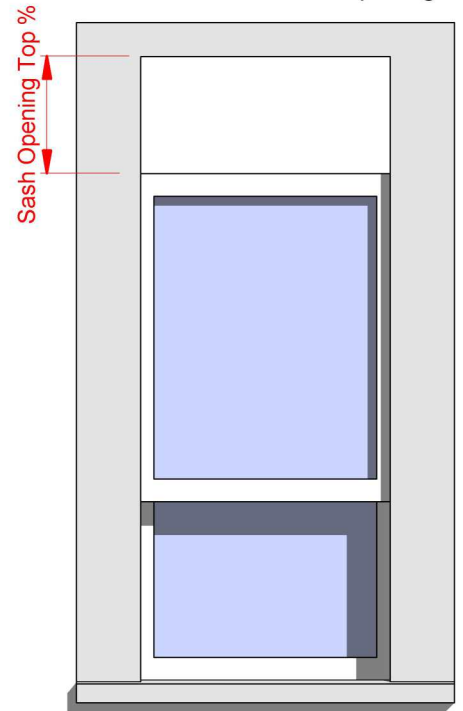
Arc Sash

Frame Arc Filling Visibility

Sash Weights Visibility

Arc Height = more than zero

Details - page 6



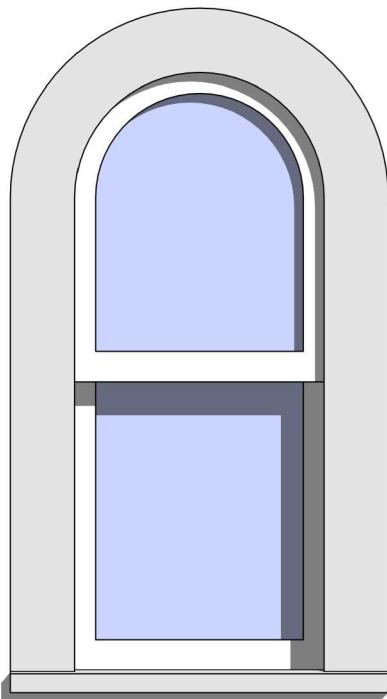
Standard Sash & Weights

Frame Arc Filling Visibility

Sash Weights Visibility

Arc Height = 0

Details - page 7



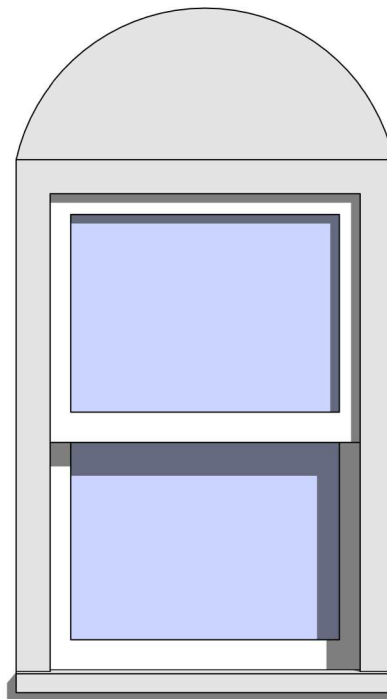
Arc Sash & Weights

Frame Arc Filling Visibility

Sash Weights Visibility

Arc Height = more than zero

Details - page 8



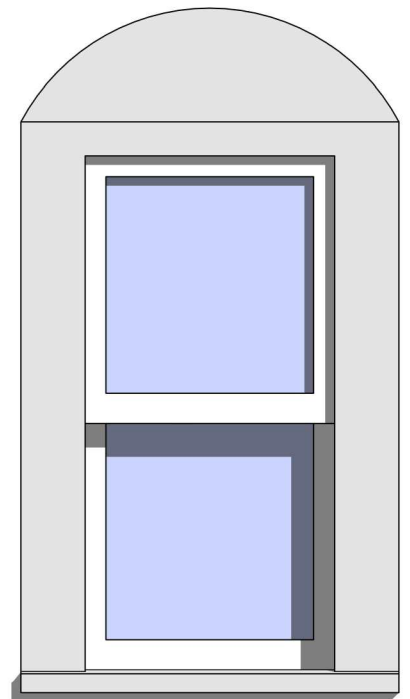
Standard Sash & Frame Arc Filling

Frame Arc Filling Visibility

Sash Weights Visibility

Arc Height = more than zero

Details - page 9



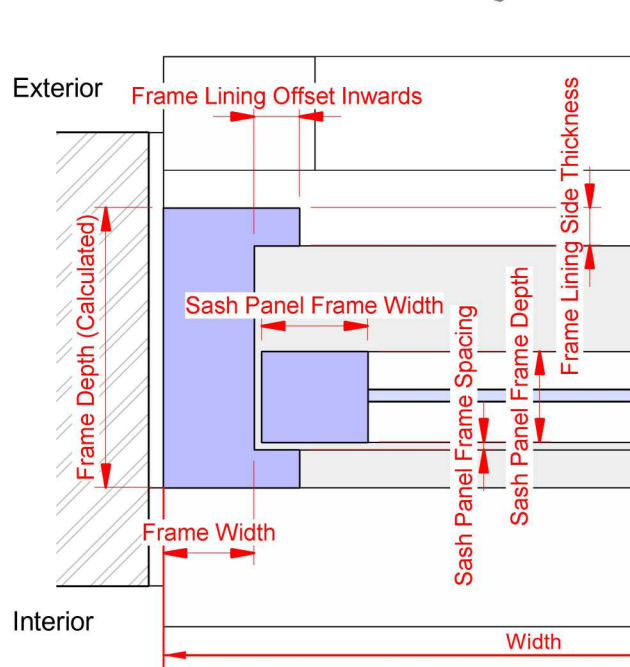
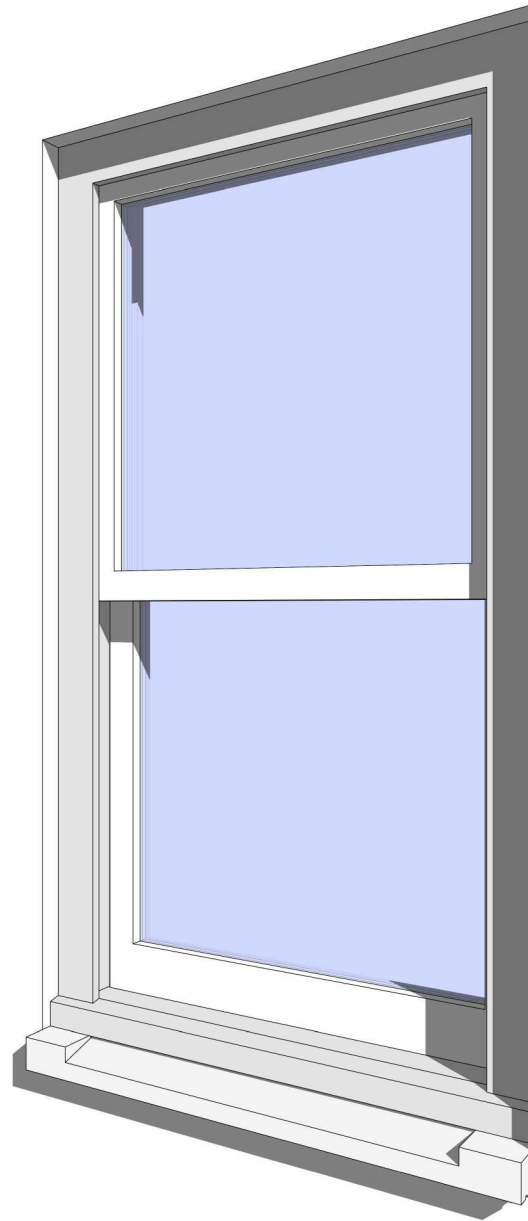
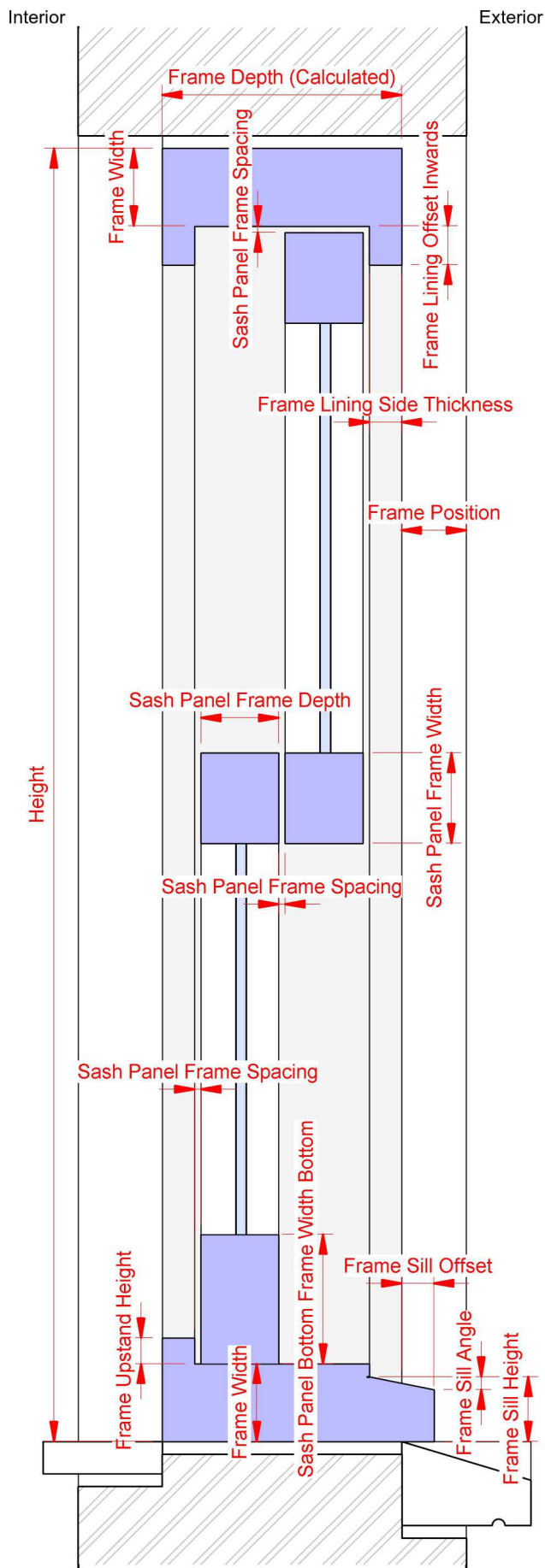
Standard Sash & Frame Arc Filling & Weights

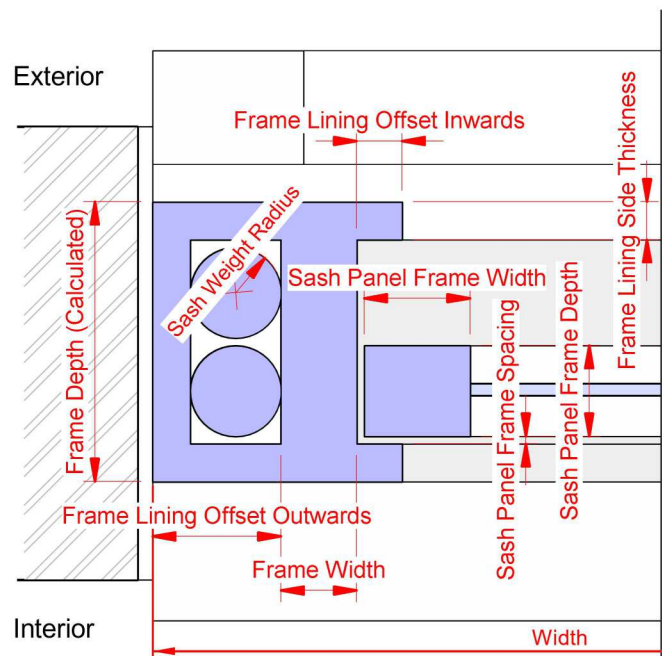
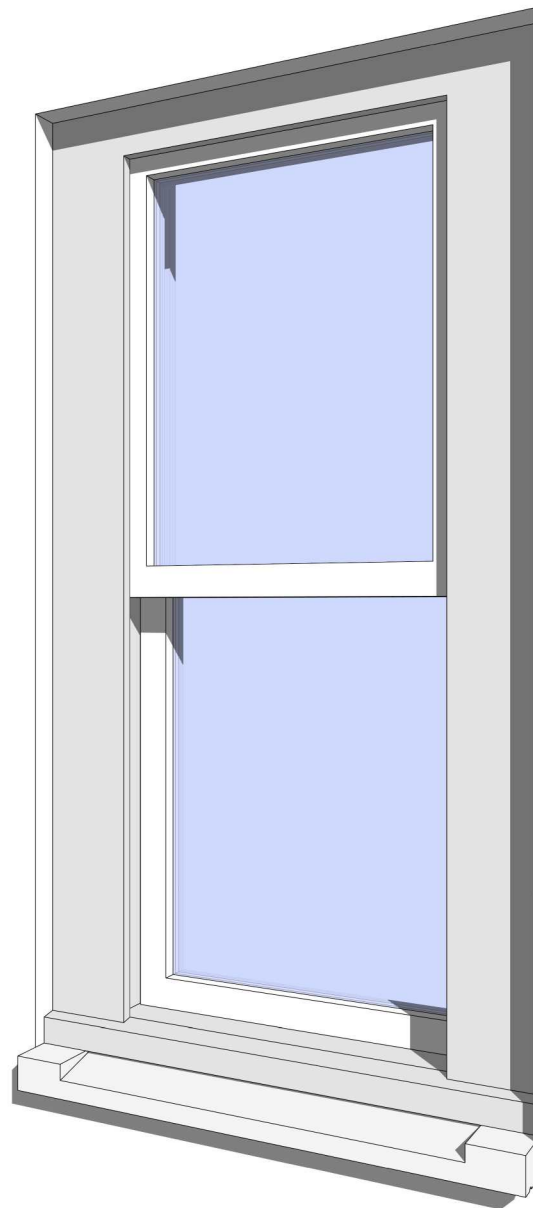
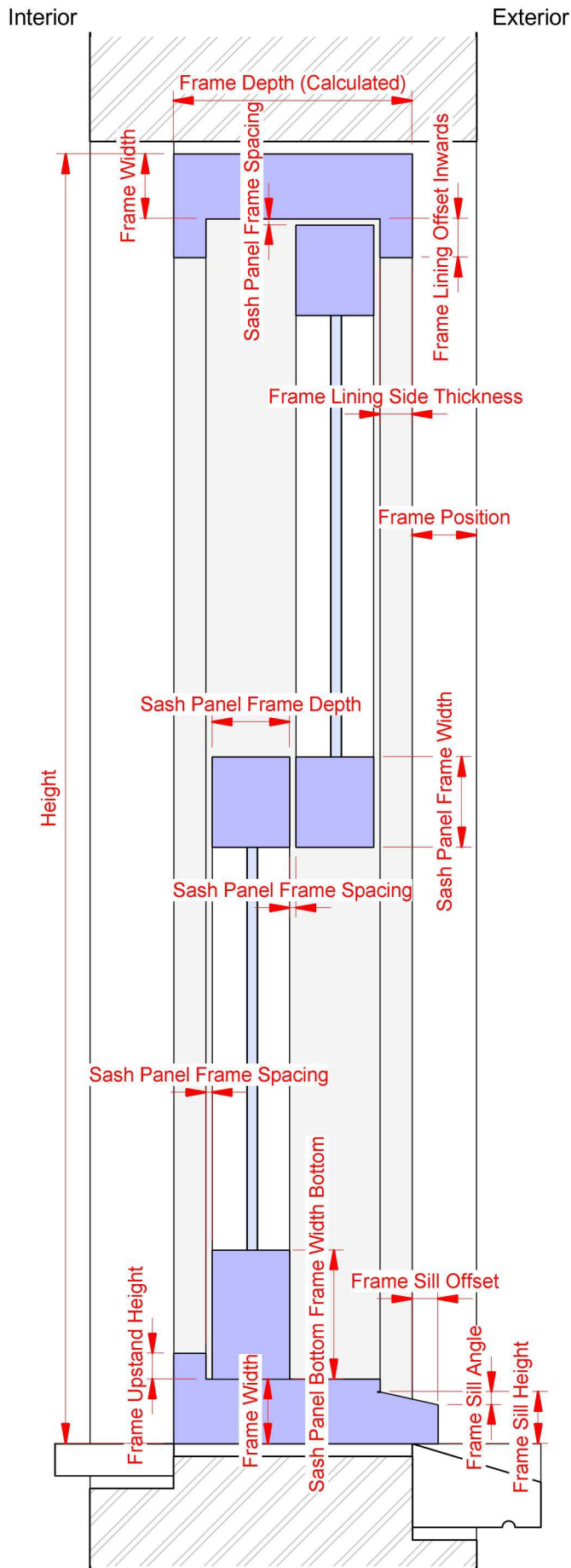
Frame Arc Filling Visibility

Sash Weights Visibility

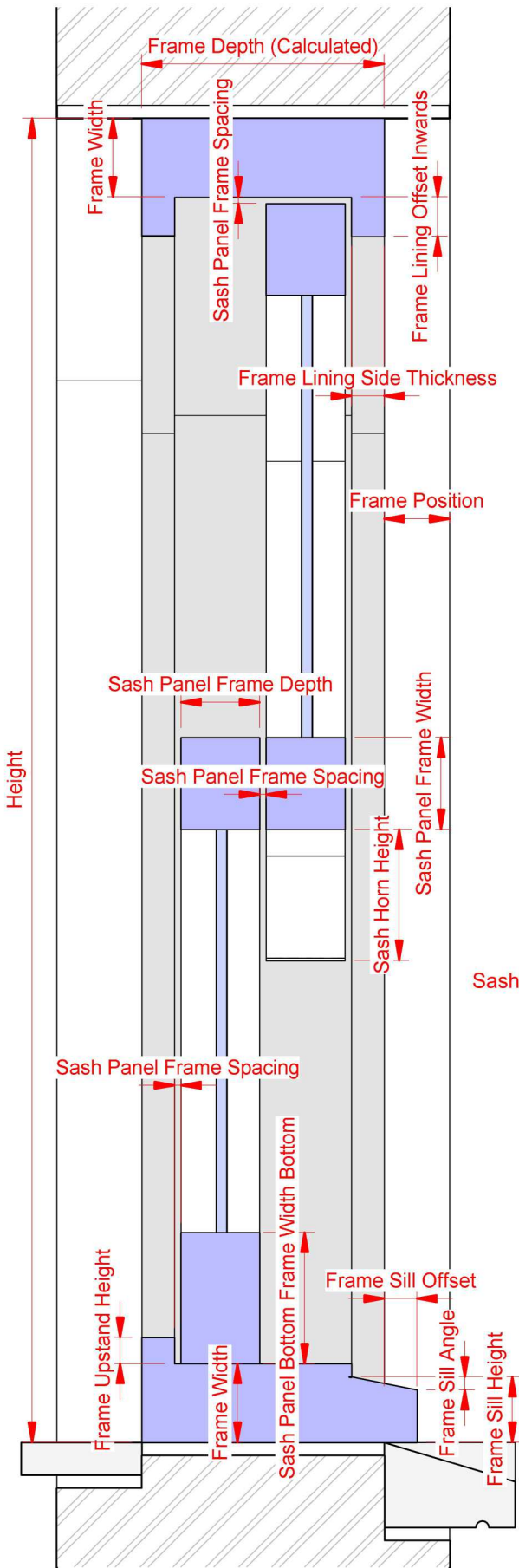
Arc Height = more than zero

Details - page 10

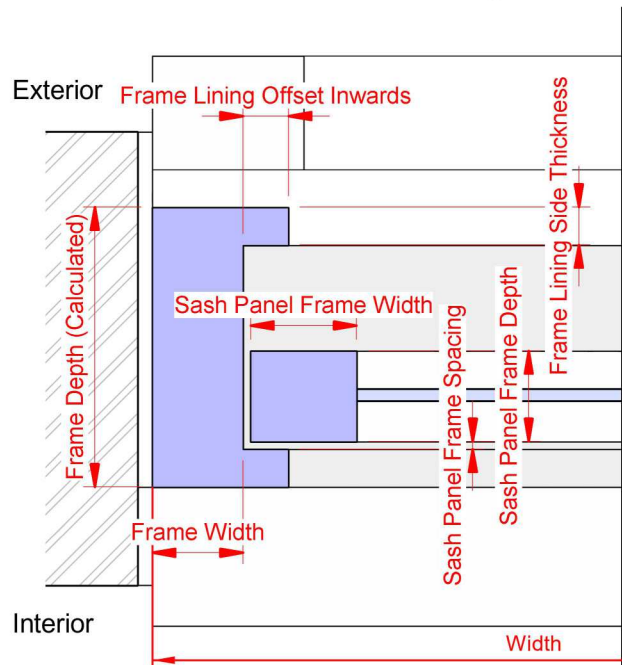
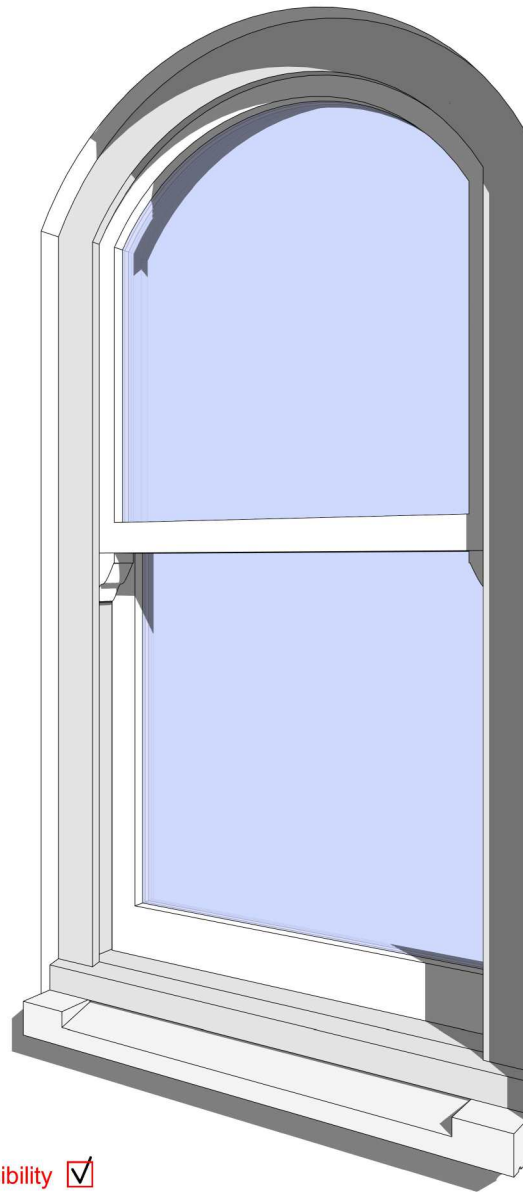




Interior Exterior

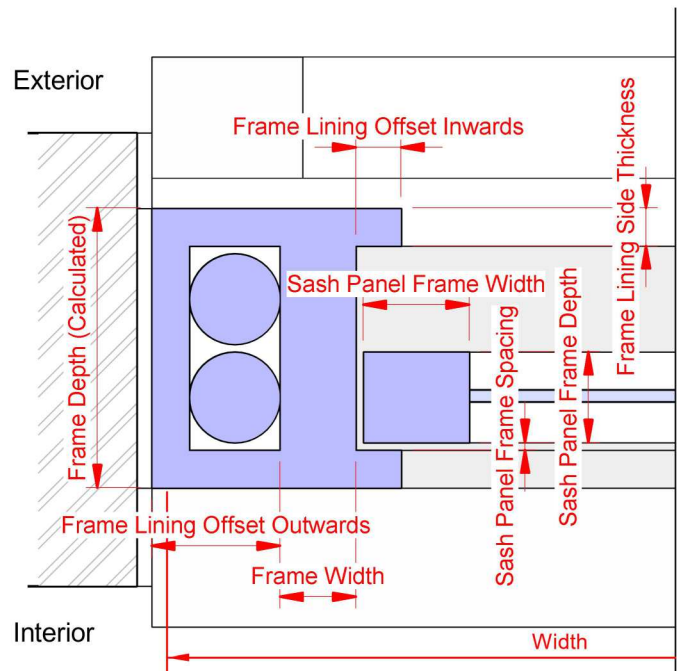
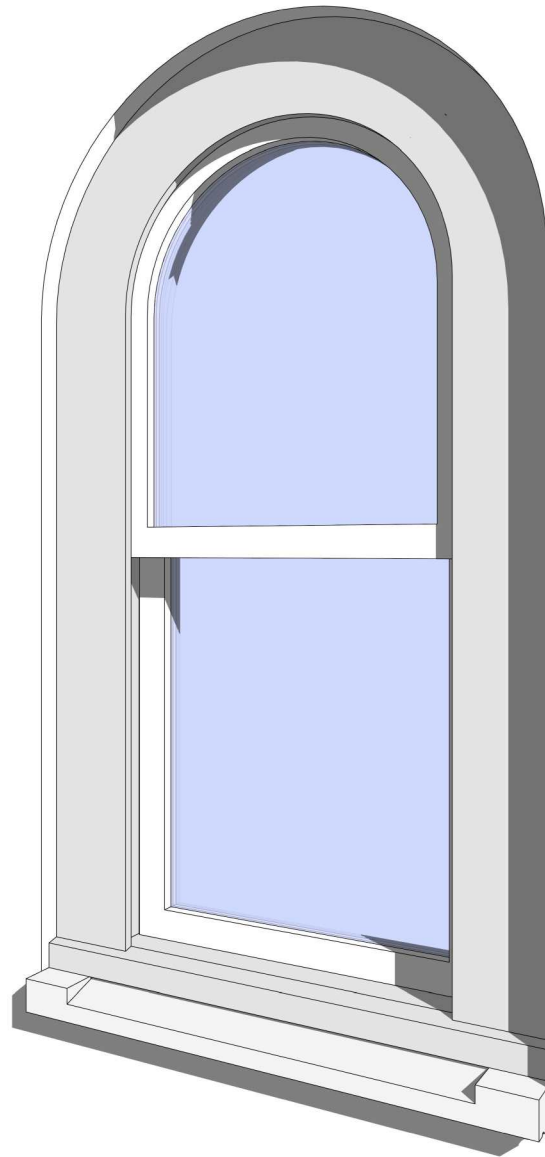
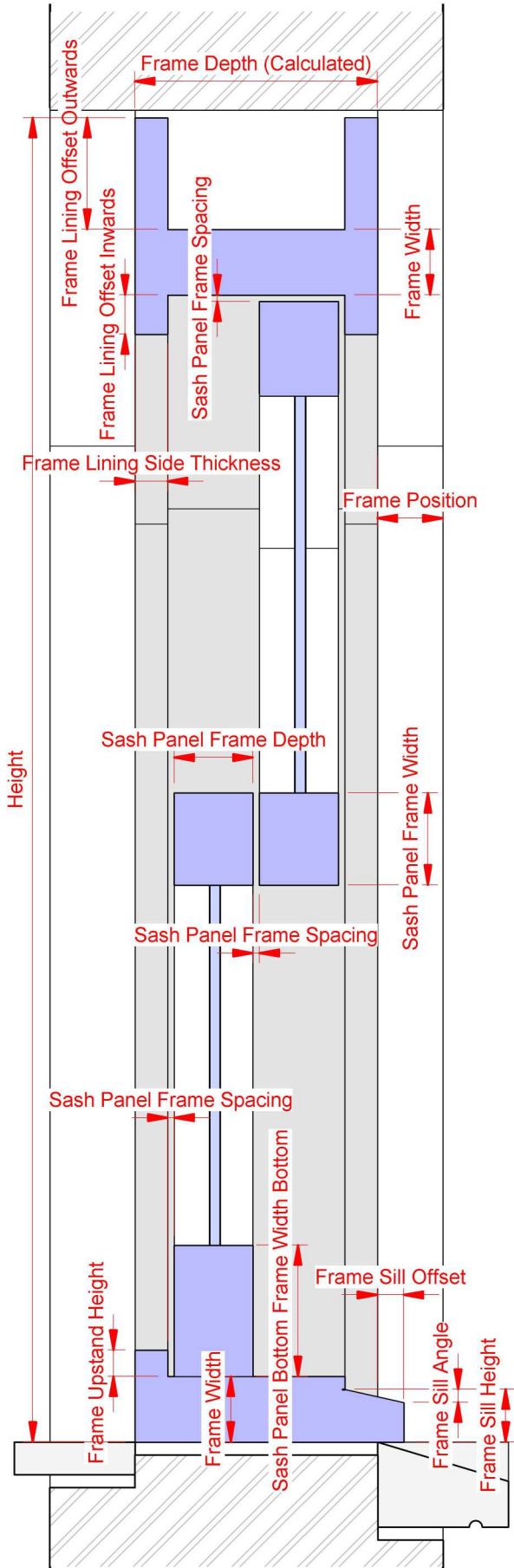


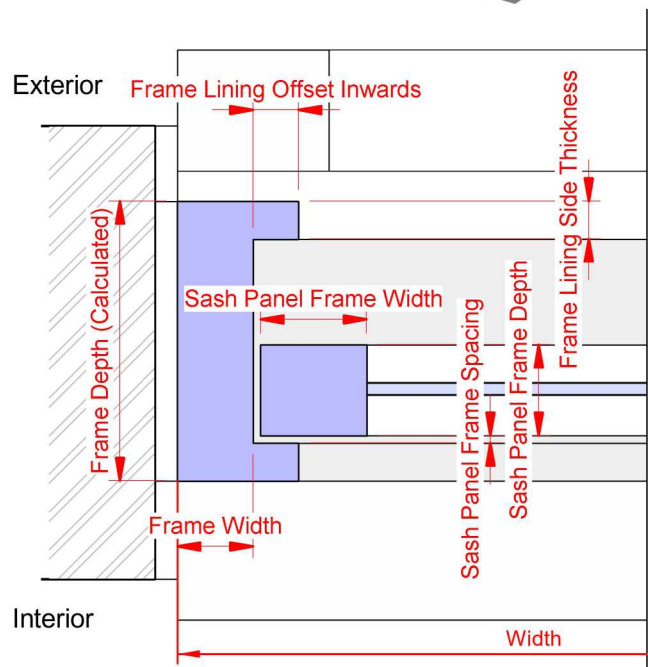
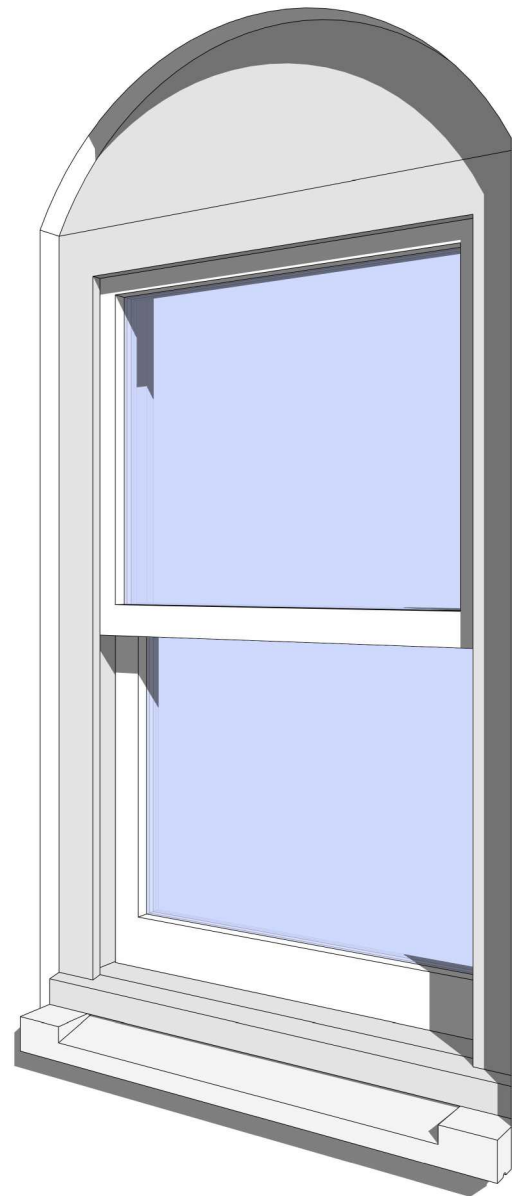
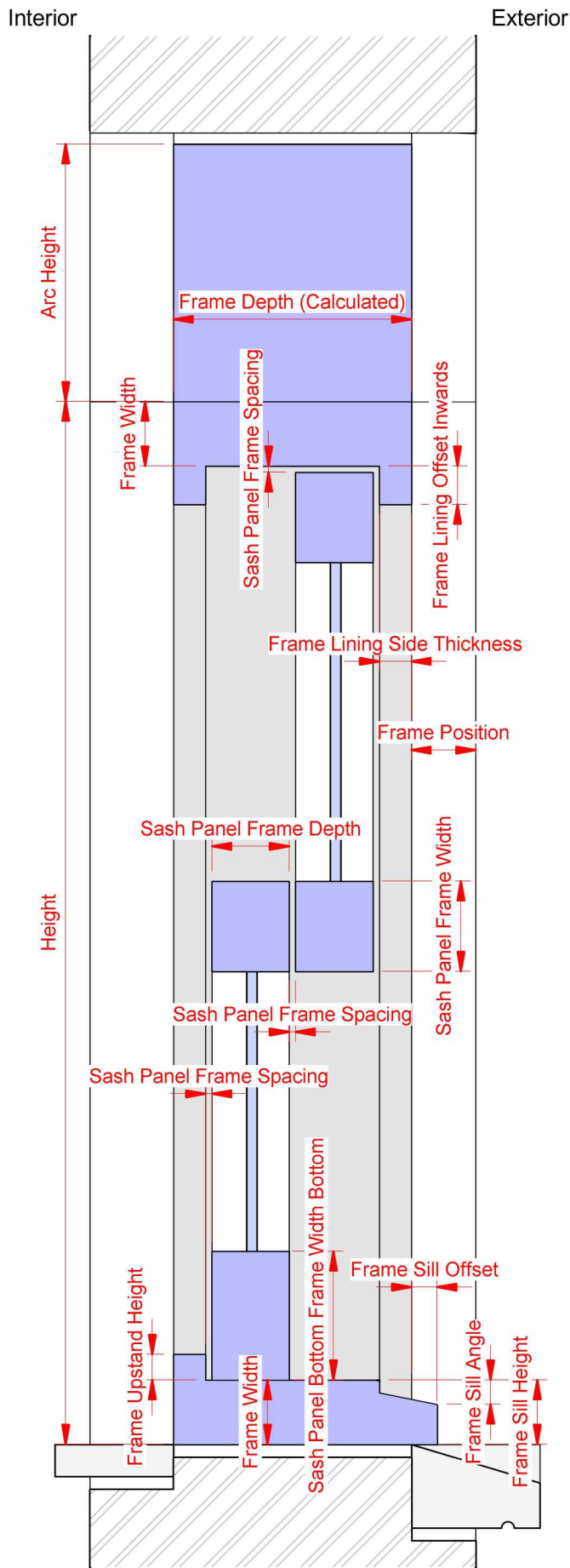
Sash Horns Visibility

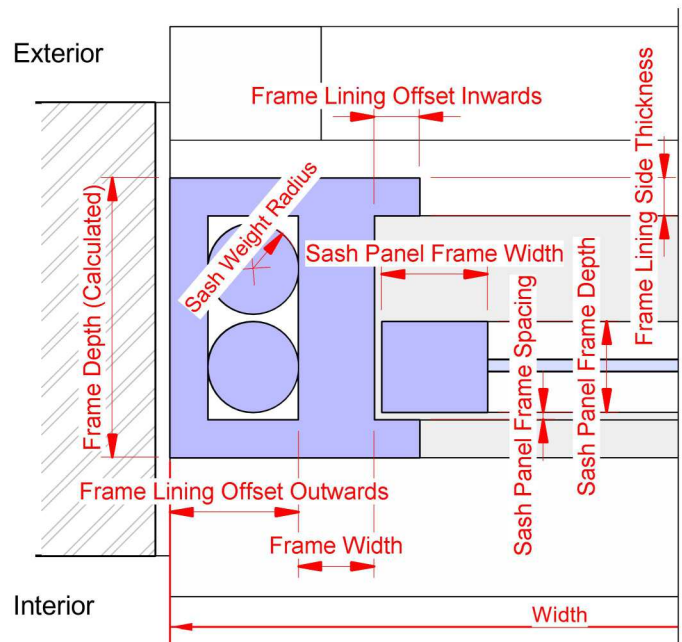
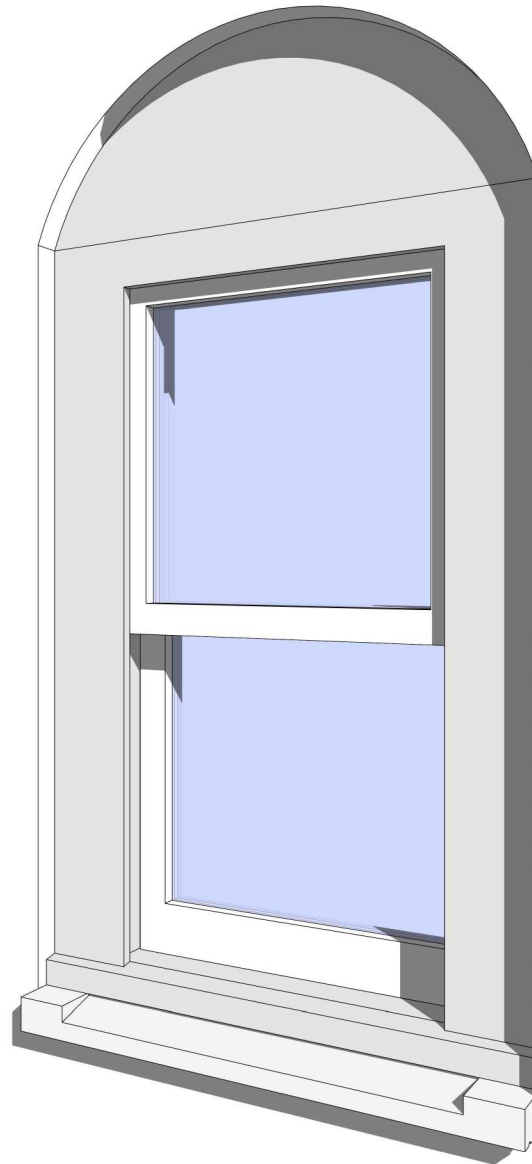
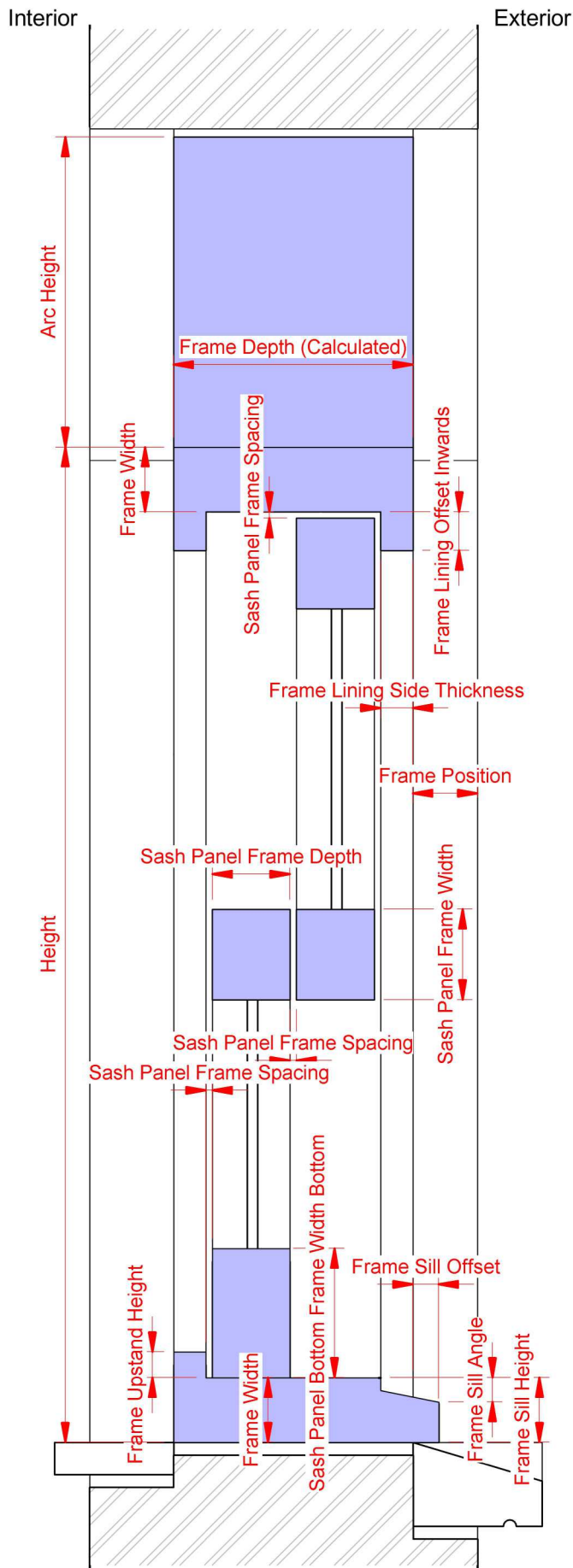


Interior

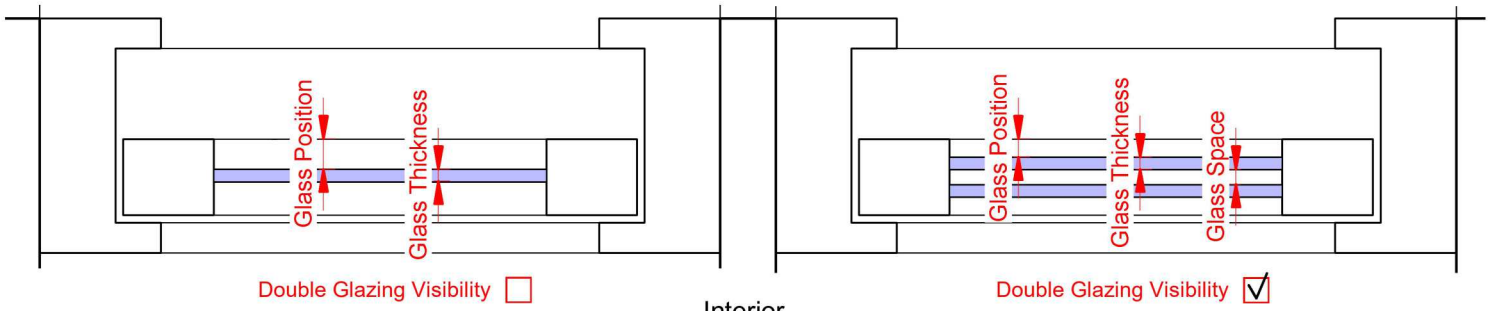
Exterior



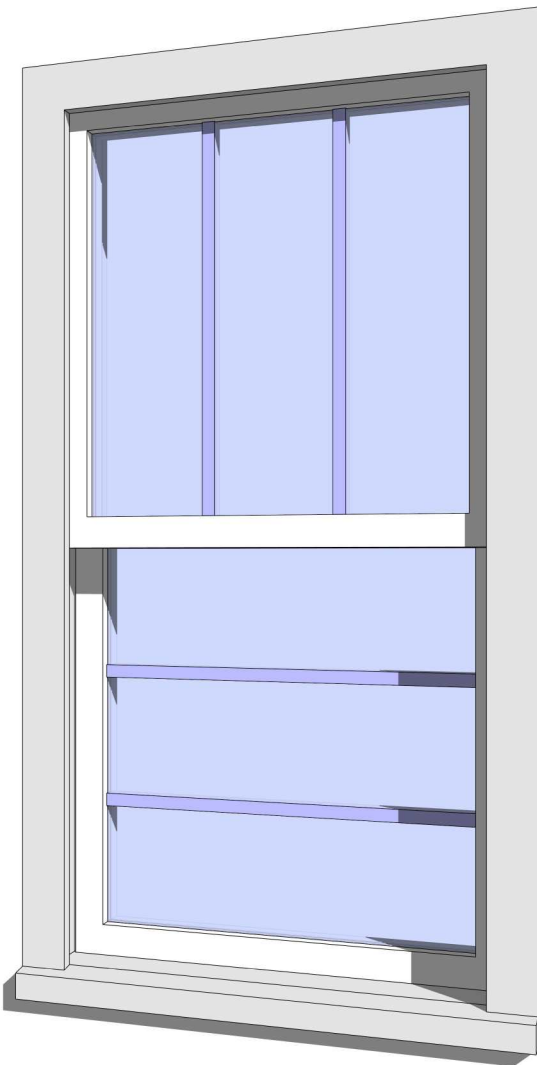




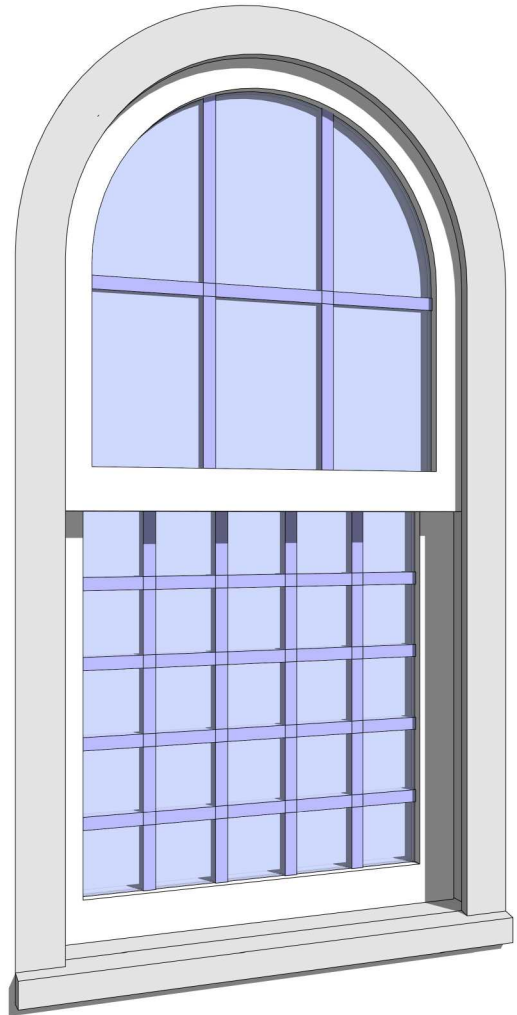
Exterior



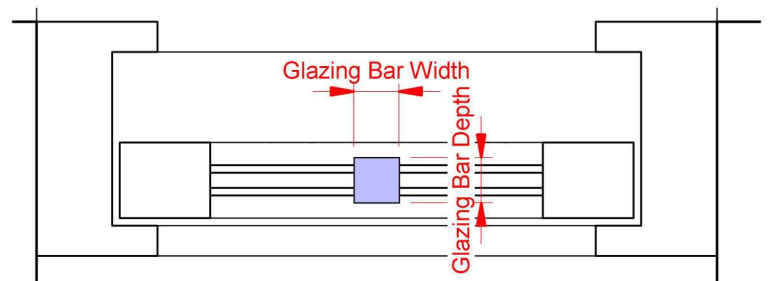
Interior

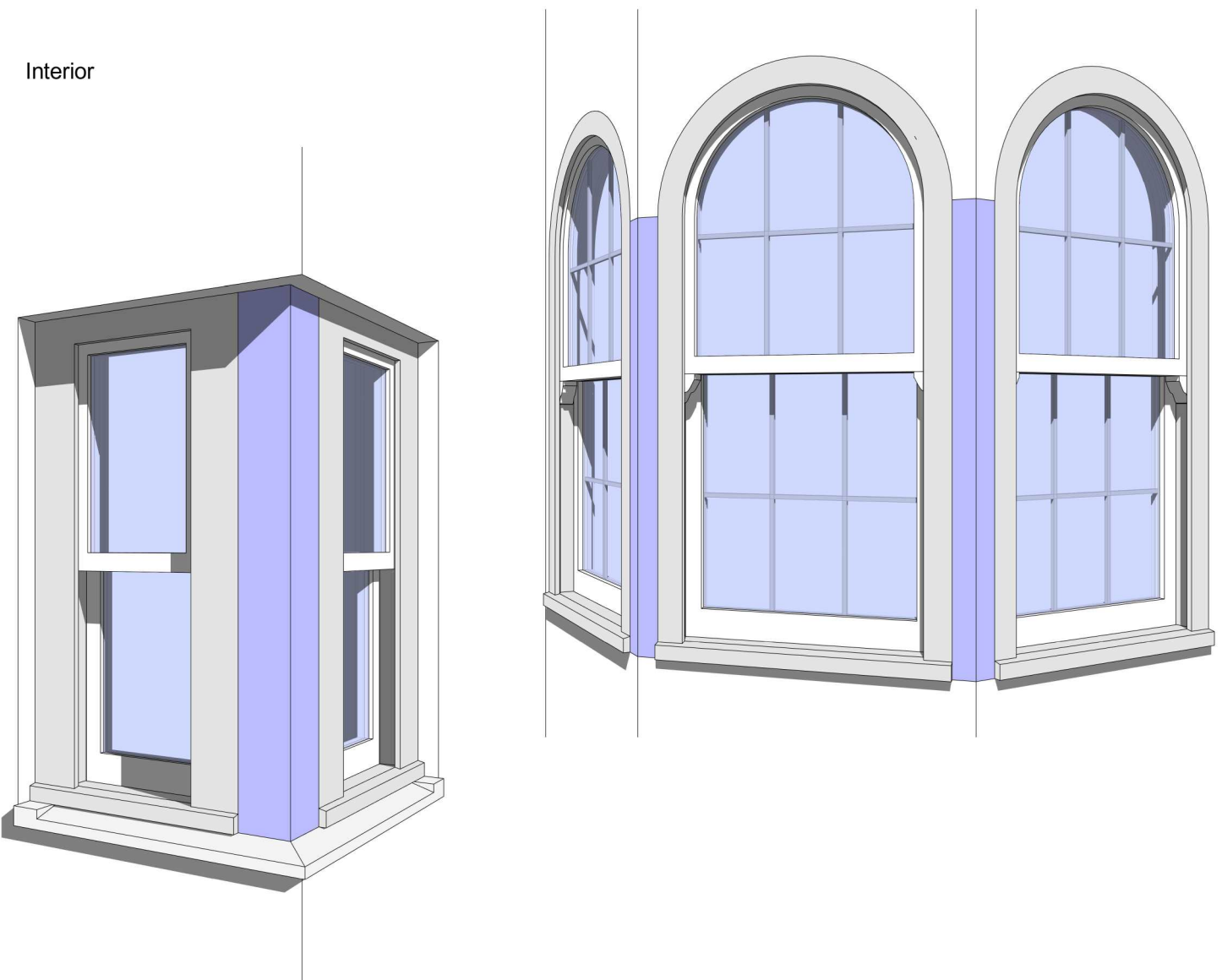
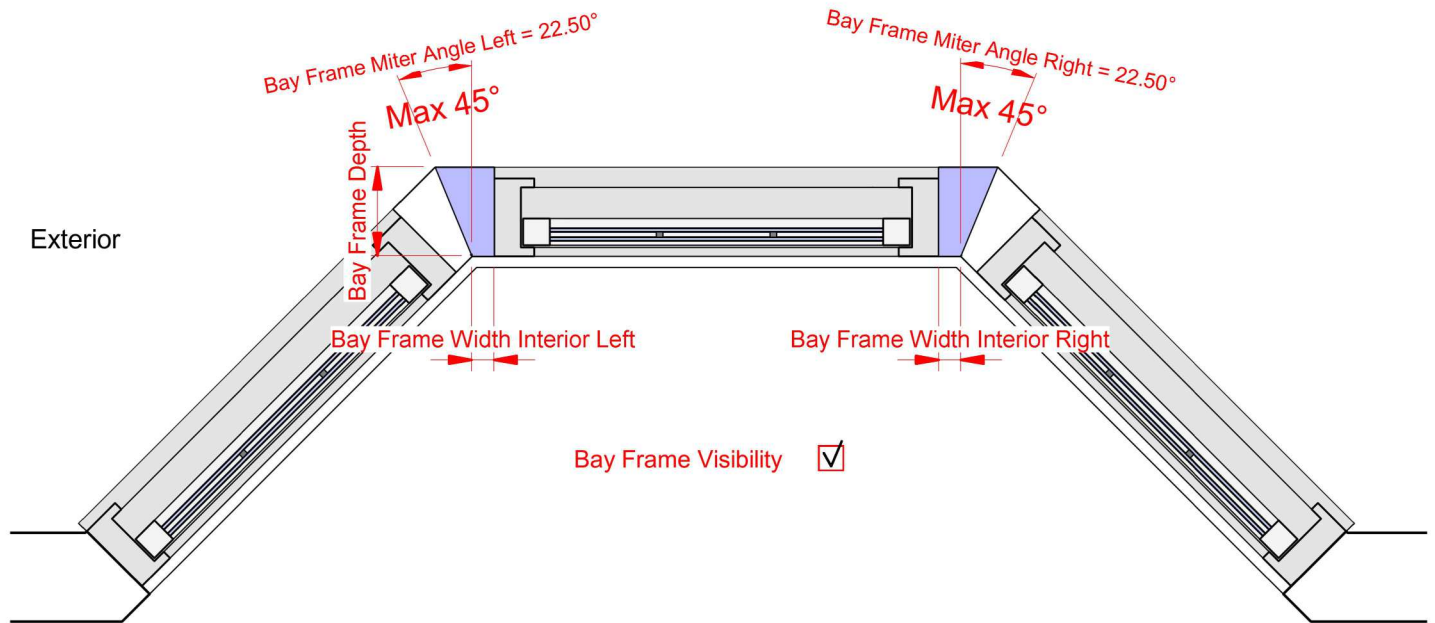


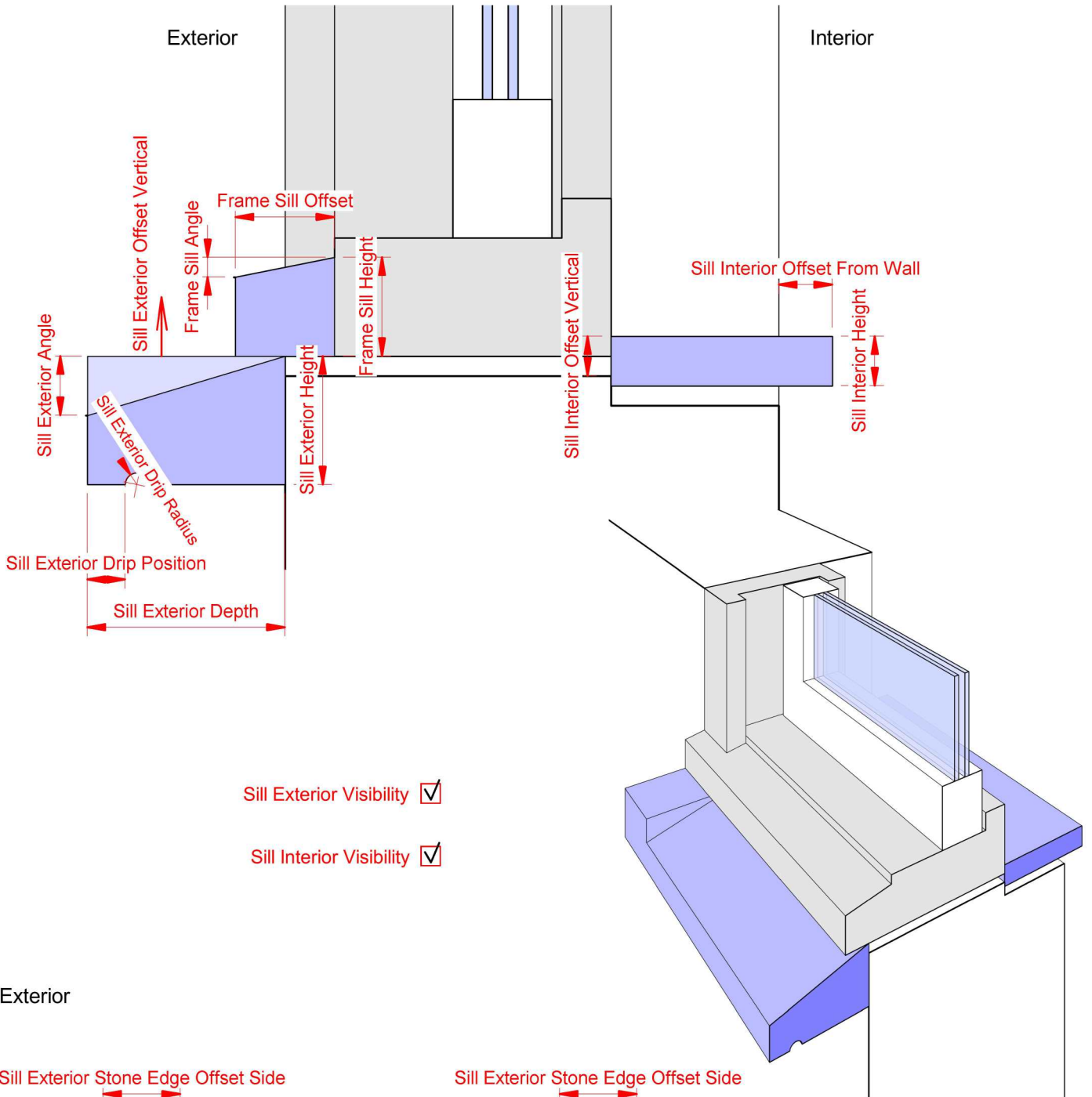
- Glazing Bar Count Bottom Sash Horizontal = 2
- Glazing Bar Count Bottom Sash Vertical = 0
- Glazing Bar Count Top Sash Horizontal = 0
- Glazing Bar Count Top Sash Vertical = 2



- Glazing Bar Count Bottom Sash Horizontal = 4
- Glazing Bar Count Bottom Sash Vertical = 4
- Glazing Bar Count Top Sash Horizontal = 1
- Glazing Bar Count Top Sash Vertical = 2



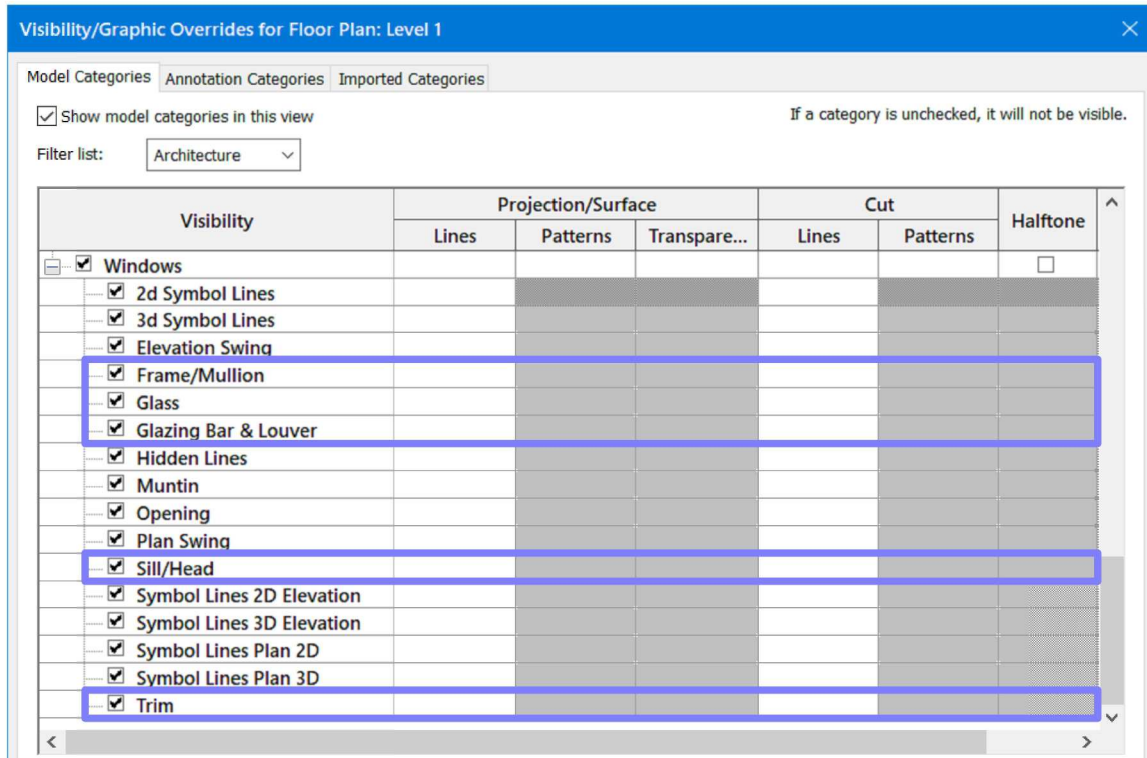




Exterior

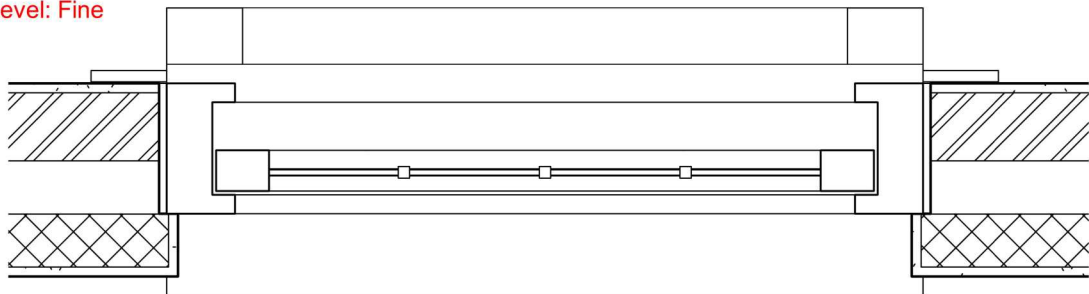


Interior

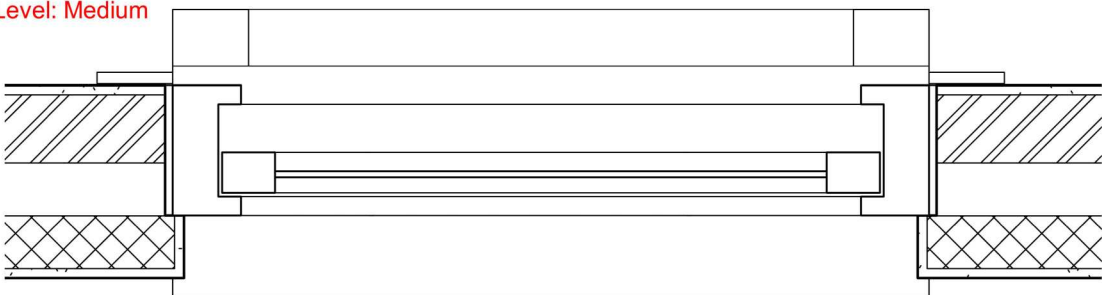


Exterior

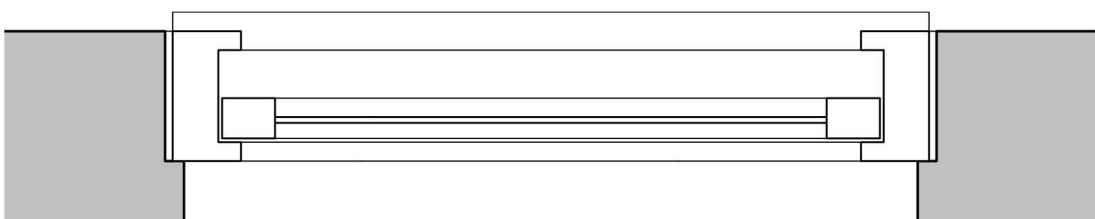
Detail Level: Fine



Detail Level: Medium



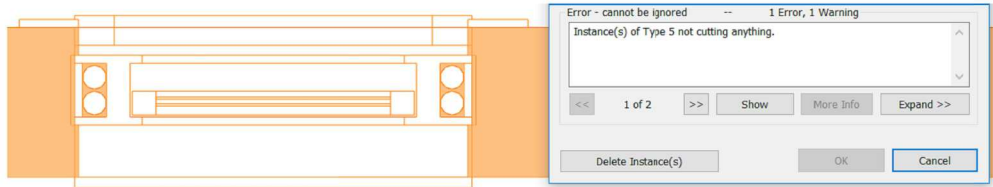
Detail Level: Coarse



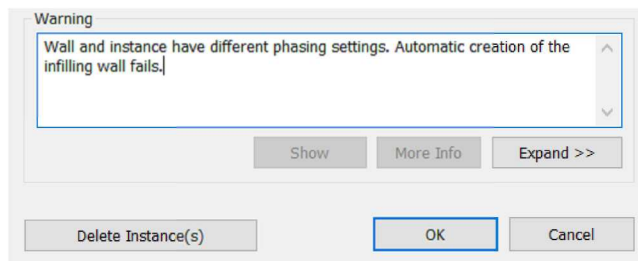
Interior

Instead of the simple opening tool, this family uses various voids for the wall opening, to provide features like rough distance, render offsets, and taper reveals. This causes issues in the following scenarios:

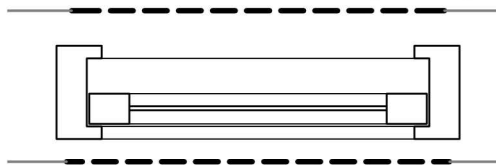
1. When placing the same window (copied instance or newly loaded) in the exact same place with different creation and demolition phases.



2. Getting a warning when host wall has **"Phase Created: Existing"**, and window has **"Phase Created: New Construction"** (usually used in renovation).



3. Wall opening lines are hidden when host wall has **"Phase Created: Existing"**, and window has **"Phase Created: New Construction"** (usually used in renovation).



Solutions:

1. Move one of the window instances by a small distance (min 0,2 mm/0,55 decimal inches), applied either to the **Sill Height** or **Frame Position** (instance parameters).
2. Apply a small distance to the **Opening Void Offset Exterior** (instance parameter) (min 0,2 mm/0,55 decimal inches)
3. Activate instance parameter **"Opening Lines"** and setup visibility via Visibility/Graphic.

Opening Lines



Opening Lines

