



**EuroLine Windows & Doors NFRC Thermal Values - All Product Lines Summary List**  
Feb. 21/2021

<b>Series Type and Glass Specification</b>	<b>U-Value Argon (IP Units)</b>	<b>U-Value Argon (SI Units)</b>	<b>SHGC Argon</b>	<b>U-Value Krypton (IP Units)</b>	<b>U-Value Krypton (SI Units)</b>	<b>SHGC Krypton</b>	<b>VT (No Grid)</b>
<b>Windows Double Paned:</b>							
1800 Casement (25mm OA) - 4mmCL/4mm180	0.27	1.50	0.43	0.26	1.48	0.43	0.49
1800 Casement (25mm OA) - 4mm180/4mmCL	0.27	1.50	0.40	0.26	1.48	0.40	0.49
1800 Casement (25mm OA) - 4mm180/4mmi89	0.24	1.36	0.39	0.23	1.30	0.39	0.48
1800 Casement (25mm OA) - 4mmCL/4mm270	0.27	1.50	0.29	0.25	1.40	0.29	0.43
1800 Casement (25mm OA)- 4mm270/4mmCL	0.27	1.50	0.23	0.25	1.40	0.23	0.43
1800 Casement (25mm OA) - 4mm270/4mmi89	0.23	1.30	0.23	0.22	1.25	0.23	0.42
1800 Casement (25mm OA) - 6mm(.030 PVB)Lami CL/4mm270	0.26	1.48	0.28	0.25	1.40	0.28	0.43
1800 Casement (25mm OA) - 8mm(.090 PVB)Lami 272/4mmCL	0.26	1.48	0.25	0.25	1.40	0.25	0.44
1800 Casement (25mm OA) - 8mm(.090 PVB)Lami 272/4mmi89	0.23	1.30	0.25	0.22	1.25	0.24	0.43
1800 Casement (25mm OA) - 4mmCL/4mm366	0.26	1.48	0.25	0.25	1.40	0.25	0.40
1800 Casement (25mm OA) - 4mm366/4mmCL	0.26	1.48	0.18	0.25	1.40	0.18	0.40
1800 Casement (25mm OA) - 4mm366/4mmi89	0.23	1.30	0.17	0.22	1.25	0.17	0.39
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1800 Awning (25mm OA)- 4mmCL/4mm180	0.28	1.59	0.43	0.26	1.48	0.43	0.49
1800 Awning (25mm OA) - 4mm180/4mmCL	0.28	1.59	0.40	0.26	1.48	0.40	0.49
1800 Awning (25mm OA) - 4mm180/4mmi89	0.24	1.36	0.39	0.23	1.30	0.39	0.48
1800 Awning (25mm OA) - 4mmCL/4mm270	0.27	1.50	0.29	0.25	1.40	0.29	0.43
1800 Awning (25mm OA) - 4mm270/4mmCL	0.27	1.50	0.23	0.25	1.40	0.23	0.43
1800 Awning (25mm OA)- 4mm270/4mmi89	0.24	1.36	0.23	0.23	1.30	0.23	0.42
1800 Awning (25mm OA) - 6mm(.030 PVB)Lami CL/4mm270	0.26	1.48	0.28	0.25	1.40	0.28	0.43
1800 Awning (25mm OA) - 8mm(.090 PVB)Lami 272/4mmCL	0.26	1.48	0.25	0.25	1.40	0.25	0.44
1800 Awning (25mm OA) - 8mm(.090 PVB)Lami 272/4mmi89	0.23	1.30	0.25	0.22	1.25	0.24	0.43
1800 Awning (25mm OA) - 4mmCL/4mm366	0.27	1.50	0.25	0.25	1.40	0.25	0.40
1800 Awning (25mm OA) - 4mm366/4mmCL	0.27	1.50	0.18	0.25	1.40	0.18	0.40
1800 Awning (25mm OA) - 4mm366/4mmi89	0.23	1.30	0.17	0.22	1.25	0.17	0.39
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1800 Fixed Sash (25mm OA) - 4mmCL/4mm180	0.27	1.50	0.51	0.26	1.48	0.51	0.59
1800 Fixed Sash (25mm OA) - 4mm180/4mmCL	0.27	1.50	0.48	0.25	1.40	0.48	0.59
1800 Fixed Sash (25mm OA) - 4mm180/4mmi89	0.23	1.30	0.46	0.22	1.25	0.47	0.58
1800 Fixed Sash (25mm OA) - 4mmCL/4mm270	0.26	1.48	0.35	0.25	1.40	0.35	0.52
1800 Fixed Sash (25mm OA) - 4mm270/4mmCL	0.26	1.48	0.28	0.25	1.36	0.28	0.52
1800 Fixed Sash (25mm OA) - 4mm270/4mmi89	0.22	1.25	0.27	0.21	1.19	0.27	0.51
1800 Fixed Sash (25mm OA) - 6mm(.030 PVB)Lami CL/4mm270	0.26	1.48	0.33	0.24	1.36	0.33	0.51
1800 Fixed Sash (25mm OA) - 8mm(.090 PVB)Lami 272/4mmCL	0.25	1.40	0.30	0.24	1.36	0.30	0.53
1800 Fixed Sash (25mm OA) - 8mm(.090 PVB)Lami 272/4mmi89	0.21	1.19	0.29	0.21	1.19	0.29	0.52
1800 Fixed Sash (25mm OA)- 4mmCL/4mm366	0.26	1.48	0.30	0.24	1.36	0.30	0.49
1800 Fixed Sash (25mm OA) - 4mm366/4mmCL	0.26	1.48	0.21	0.24	1.36	0.21	0.49
1800 Fixed Sash (25mm OA)- 4mm366/4mmi89	0.22	1.25	0.20	0.21	1.19	0.20	0.47
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1800 Small Picture (25mm OA) - 4mmCL/4mm180	0.28	1.59	0.56	0.26	1.48	0.56	0.66
1800 Small Picture (25mm OA) - 4mm180/4mmCL	0.28	1.59	0.53	0.26	1.48	0.53	0.66

1800 Small Picture (25mm OA)- 4mm180/4mmi89	0.23	1.30	0.51	0.22	1.25	0.51	0.64
1800 Small Picture (25mm OA) - 4mmCL/4mm270	0.27	1.50	0.38	0.25	1.40	0.39	0.58
1800 Small Picture (25mm OA) - 4mm270/4mmCL	0.27	1.50	0.30	0.25	1.40	0.30	0.58
1800 Small Picture (25mm OA) - 4mm270/4mmi89	0.22	1.25	0.30	0.21	1.19	0.30	0.56
1800 Small Picture (25mm OA) - 6mm(.030 PVB)Lami CL/4mm270	0.26	1.48	0.36	0.25	1.40	0.36	0.57
1800 Small Picture (25mm OA) - 8mm(.090 PVB)Lami 272/4mmCL	0.26	1.48	0.33	0.24	1.36	0.33	0.58
1800 Small Picture (25mm OA) - 8mm(.090 PVB)Lami 272/4mmi89	0.22	1.25	0.32	0.21	1.19	0.32	0.57
1800 Small Picture (25mm OA) - 4mmCL/4mm366	0.26	1.48	0.33	0.24	1.36	0.33	0.54
1800 Small Picture (25mm OA) - 4mm366/4mmCL	0.26	1.48	0.23	0.24	1.36	0.23	0.54
1800 Small Picture (25mm OA) - 4mm366/4mmi89	0.22	1.25	0.22	0.21	1.19	0.22	0.52
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4700 Thermo + Hybrid Tilt & Turn (Steel) - (25mm OA) - 4mmCL/4mm180	0.26	1.48	0.46	0.25	1.40	0.46	0.54
4700 Thermo + Hybrid Tilt & Turn (Foam + MG) - (25mm OA) - 4mmCL/4mm180	0.25	1.40	0.46	0.23	1.30	0.46	0.54
4700 Thermo + Hybrid Tilt & Turn (Steel) - (25mm OA) - 4mm180/4mmCL	0.26	1.48	0.43	0.25	1.40	0.43	0.54
4700 Thermo + Hybrid Tilt & Turn (Foam + MG) - (25mm OA) - 4mm180/4mmCL	0.25	1.40	0.43	0.23	1.30	0.43	0.54
4700 Thermo + Hybrid Tilt & Turn (Steel) - (25mm OA) - 4mm180/4mmi89	0.22	1.25	0.42	0.21	1.19	0.42	0.52
4700 Thermo + Hybrid Tilt & Turn (Foam + MG) - (25mm OA) - 4mm180/4mmi89	0.21	1.19	0.42	0.20	1.10	0.42	0.52
4700 Thermo + Hybrid Tilt & Turn (Steel) - (25mm OA) - 4mmCL/4mm270	0.25	1.40	0.31	0.24	1.36	0.32	0.47
4700 Thermo + Hybrid Tilt & Turn (Foam + MG) - (25mm OA) - 4mmCL/4mm270	0.24	1.36	0.31	0.23	1.30	0.32	0.47
4700 Thermo + Hybrid Tilt & Turn (Steel) - (25mm OA) - 4mm270/4mmCL	0.25	1.40	0.25	0.24	1.36	0.25	0.47
4700 Thermo + Hybrid Tilt & Turn (Foam + MG) - (25mm OA) - 4mm270/4mmCL	0.24	1.36	0.25	0.23	1.30	0.25	0.47
4700 Thermo + Hybrid Tilt & Turn (Steel) - (25mm OA) - 4mm270/4mmi89	0.22	1.25	0.24	0.21	1.19	0.24	0.46
4700 Thermo + Hybrid Tilt & Turn (Foam + MG) - (25mm OA) - 4mm270/4mmi89	0.20	1.10	0.24	0.19	1.08	0.24	0.46
4700 Thermo + Hybrid Tilt & Turn (Steel) - (25mm OA) - 6mm(.030 PVB)Lami CL/4mm270	0.25	1.40	0.30	0.23	1.30	0.30	0.46
4700 Thermo + Hybrid Tilt & Turn (Foam + MG) - (25mm OA) - 6mm(.030 PVB)Lami CL/4mm270	0.23	1.30	0.30	0.22	1.25	0.30	0.46
4700 Thermo + Hybrid Tilt & Turn (Steel) - (25mm OA) - 8mm(.090 PVB)Lami 272/4mmCL	0.25	1.40	0.27	0.23	1.30	0.27	0.48
4700 Thermo + Hybrid Tilt & Turn (Foam + MG) - (25mm OA) - 8mm(.090 PVB)Lami 272/4mmCL	0.23	1.30	0.27	0.22	1.25	0.27	0.48
4700 Thermo + Hybrid Tilt & Turn (Steel) - (25mm OA) - 8mm(.090 PVB)Lami 272/4mmi89	0.21	1.19	0.26	0.20	1.10	0.26	0.46
4700 Thermo + Hybrid Tilt & Turn (Foam + MG) - (25mm OA) - 8mm(.090 PVB)Lami 272/4mmi89	0.20	1.10	0.26	0.19	1.08	0.26	0.46
4700 Thermo + Hybrid Tilt & Turn (Steel) - (25mm OA) - 4mmCL/4mm366	0.25	1.40	0.27	0.23	1.30	0.27	0.44
4700 Thermo + Hybrid Tilt & Turn (Foam + MG) - (25mm OA) - 4mmCL/4mm366	0.24	1.36	0.27	0.22	1.25	0.27	0.44
4700 Thermo + Hybrid Tilt & Turn (Steel) - (25mm OA) - 4mm366/4mmCL	0.25	1.40	0.19	0.23	1.30	0.19	0.44
4700 Thermo + Hybrid Tilt & Turn (Foam + MG) - (25mm OA) - 4mm366/4mmCL	0.24	1.36	0.19	0.22	1.25	0.19	0.44
4700 Thermo + Hybrid Tilt & Turn (Steel) - (25mm OA) - 4mm366/4mmi89	0.21	1.19	0.18	0.20	1.10	0.18	0.43
4700 Thermo + Hybrid Tilt & Turn (Foam + MG) - (25mm OA) - 4mm366/4mmi89	0.20	1.10	0.18	0.19	1.08	0.18	0.43
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4700 Thermo + Hybrid Picture (Steel) - (25mm OA) - 4mmCL/4mm180	0.27	1.50	0.53	0.25	1.40	0.53	0.62
4700 Thermo + Hybrid Picture (Foam) - (25mm OA) - 4mmCL/4mm180	0.26	1.48	0.53	0.24	1.36	0.53	0.62
4700 Thermo + Hybrid Picture (Steel) - (25mm OA) - 4mm180/4mmCL	0.27	1.50	0.50	0.25	1.40	0.50	0.62
4700 Thermo + Hybrid Picture (Foam) - (25mm OA) - 4mm180/4mmCL	0.26	1.48	0.50	0.24	1.36	0.50	0.62
4700 Thermo + Hybrid Picture (Steel) - (25mm OA) - 4mm180/4mmi89	0.23	1.30	0.48	0.22	1.25	0.49	0.60
4700 Thermo + Hybrid Picture (Foam) - (25mm OA) - 4mm180/4mmi89	0.21	1.19	0.48	0.20	1.10	0.49	0.60
4700 Thermo + Hybrid Picture (Steel) - (25mm OA) - 4mmCL/4mm270	0.26	1.48	0.36	0.24	1.36	0.37	0.54
4700 Thermo + Hybrid Picture (Foam) - (25mm OA) - 4mmCL/4mm270	0.25	1.40	0.36	0.23	1.30	0.37	0.54
4700 Thermo + Hybrid Picture (Steel) - (25mm OA) - 4mm270/4mmCL	0.26	1.48	0.29	0.24	1.36	0.29	0.54
4700 Thermo + Hybrid Picture (Foam) - (25mm OA) - 4mm270/4mmCL	0.25	1.40	0.29	0.23	1.30	0.29	0.54
4700 Thermo + Hybrid Picture (Steel) - (25mm OA) - 4mm270/4mmi89	0.22	1.25	0.28	0.21	1.19	0.28	0.53
4700 Thermo + Hybrid Picture (Foam) - (25mm OA) - 4mm270/4mmi89	0.21	1.19	0.28	0.20	1.10	0.28	0.53
4700 Thermo + Hybrid Picture (Steel) - (25mm OA) - 6mm(.030 PVB)Lami CL/4mm270	0.25	1.40	0.34	0.24	1.36	0.34	0.54
4700 Thermo + Hybrid Picture (Foam) - (25mm OA) - 6mm(.030 PVB)Lami CL/4mm270	0.24	1.36	0.34	0.23	1.30	0.34	0.54
4700 Thermo + Hybrid Picture (Steel) - (25mm OA) - 8mm(.090 PVB)Lami 272/4mmCL	0.25	1.40	0.31	0.24	1.36	0.31	0.55
4700 Thermo + Hybrid Picture (Foam) - (25mm OA) - 8mm(.090 PVB)Lami 272/4mmCL	0.24	1.36	0.31	0.23	1.30	0.31	0.55
4700 Thermo + Hybrid Picture (Steel) - (25mm OA) - 8mm(.090 PVB)Lami 272/4mmi89	0.21	1.19	0.30	0.20	1.10	0.30	0.54
4700 Thermo + Hybrid Picture (Foam) - (25mm OA) - 8mm(.090 PVB)Lami 272/4mmi89	0.20	1.10	0.30	0.19	1.08	0.30	0.54
4700 Thermo + Hybrid Picture (Steel) - (25mm OA) - 4mmCL/4mm366	0.26	1.48	0.31	0.24	1.36	0.31	0.51
4700 Thermo + Hybrid Picture (Foam) - (25mm OA) - 4mmCL/4mm366	0.24	1.36	0.31	0.23	1.30	0.31	0.51
4700 Thermo + Hybrid Picture (Steel) - (25mm OA) - 4mm366/4mmCL	0.26	1.48	0.22	0.24	1.36	0.22	0.51
4700 Thermo + Hybrid Picture (Foam) - (25mm OA) - 4mm366/4mmCL	0.24	1.36	0.22	0.23	1.30	0.22	0.51

4700 Thermo + Hybrid Picture (Steel) - (25mm OA) - 4mm366/4mmi89	0.22	1.25	0.21	0.20	1.10	0.21	0.49
4700 Thermo + Hybrid Picture (Foam) - (25mm OA) - 4mm366/4mmi89	0.20	1.10	0.21	0.19	1.08	0.21	0.49

**Doors Double Paned:**

4700 Thermo + Hybrid Inswing/Outswing (Steel) - (25mm OA) - 4mmCL/4mm180							
4700 Thermo + Hybrid Inswing/Outswing (Foam) - (25mm OA) - 4mmCL/4mm180							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (25mm OA) - 4mmCL/4mm180							
4700 Thermo + Hybrid Inswing/Outswing (Foam) Bar. Free - (25mm OA) - 4mmCL/4mm180							

4700 Thermo + Hybrid Inswing/Outswing (Steel) - (25mm OA) - 4mm180/4mmCl	0.26	1.48	0.38	0.25 E	1.40 E	0.38 E	0.47
4700 Thermo + Hybrid Inswing/Outswing (Foam) - (25mm OA) - 4mm180/4mmCl							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (25mm OA) - 4mm180/4mmCl							
4700 Thermo + Hybrid Inswing/Outswing (Foam) Bar. Free - (25mm OA) - 4mm180/4mmCl							

4700 Thermo + Hybrid Inswing/Outswing (Steel) - (25 mm OA) - 4mm180/4mmi89							
4700 Thermo + Hybrid Inswing/Outswing (Foam) - (25mm OA) - 4mm180/4mmi89							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (25 mm OA) - 4mm180/4mmi89							
4700 Thermo + Hybrid Inswing/Outswing (Foam) Bar. Free - (25mm OA) - 4mm180/4mmi89							

4700 Thermo + Hybrid Inswing/Outswing (Steel) - (25mm OA) - 4mmCl/4mm270	0.25	1.40	0.28	0.24 E	1.36 E	0.28 E	0.42
4700 Thermo + Hybrid Inswing/Outswing (Foam) - (25mm OA) - 4mmCl/4mm270							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (25mm OA) - 4mmCl/4mm270							
4700 Thermo + Hybrid Inswing/Outswing (Foam) Bar. Free - (25mm OA) - 4mmCl/4mm270							

4700 Thermo + Hybrid Inswing/Outswing (Steel) - (25mm OA) - 4mm270/4mmCl	0.25	1.40	0.22	0.24 E	1.36 E	0.22 E	0.42
4700 Thermo + Hybrid Inswing/Outswing (Foam) - (25mm OA) - 4mm270/4mmCl							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (25mm OA) - 4mm270/4mmCl							
4700 Thermo + Hybrid Inswing/Outswing (Foam) Bar. Free - (25mm OA) - 4mm270/4mmCl							

4700 Thermo + Hybrid Inswing/Outswing (Steel) - (25mm OA) - 4mm270/4mmi89	0.22	1.25	0.22	0.21	1.19 E	0.22 E	0.41
4700 Thermo + Hybrid Inswing/Outswing (Foam) - (25mm OA) - 4mm270/4mmi89							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (25mm OA) - 4mm270/4mmi89							
4700 Thermo + Hybrid Inswing/Outswing (Foam) Bar. Free - (25mm OA) - 4mm270/4mmi89							

4700 Thermo + Hybrid Inswing/Outswing (Steel) - (25mm OA) - 6mm(.030 PVB)Lami CL/4mm270							
4700 Thermo + Hybrid Inswing/Outswing (Foam) - (25mm OA) - 6mm(.030 PVB)Lami CL/4mm270							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (25mm OA) - 6mm(.030 PVB)Lami CL/4mm270							
4700 Thermo + Hybrid Inswing/Outswing (Foam) Bar. Free - (25mm OA) - 6mm(.030 PVB)Lami CL/4mm270							

4700 Thermo + Hybrid Inswing/Outswing (Steel) - (25mm OA) - 8mm(.090 PVB)Lami 272/4mmCl							
4700 Thermo + Hybrid Inswing/Outswing (Foam) - (25mm OA) - 8mm(.090 PVB)Lami 272/4mmCl							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (25mm OA) - 8mm(.090 PVB)Lami 272/4mmCl							
4700 Thermo + Hybrid Inswing/Outswing (Foam) Bar. Free - (25mm OA) - 8mm(.090 PVB)Lami 272/4mmCl							

4700 Thermo + Hybrid Inswing/Outswing (Steel) - (25mm OA) - 8mm(.090 PVB)Lami 272/4mmi89							
4700 Thermo + Hybrid Inswing/Outswing (Foam) - (25mm OA) - 8mm(.090 PVB)Lami 272/4mmi89							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (25mm OA) - 8mm(.090 PVB)Lami 272/4mmi89							
4700 Thermo + Hybrid Inswing/Outswing (Foam) Bar. Free - (25mm OA) - 8mm(.090 PVB)Lami 272/4mmi89							

4700 Thermo + Hybrid Inswing/Outswing (Steel) - (25mm OA) - 4mmCL/4mm366	0.25	1.40	0.24	0.24 E	1.36 E	0.24 E	0.39
4700 Thermo + Hybrid Inswing/Outswing (Foam) - (25mm OA) - 4mmCL/4mm366							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (25mm OA) - 4mmCL/4mm366							
4700 Thermo + Hybrid Inswing/Outswing (Foam) Bar. Free - (25mm OA) - 4mmCL/4mm366							

4700 Thermo + Hybrid Inswing/Outswing (Steel) - (25mm OA) - 4mm366/4mmCl	0.25	1.40	0.17	0.24 E	1.36 E	0.17 E	0.39
4700 Thermo + Hybrid Inswing/Outswing (Foam) - (25mm OA) - 4mm366/4mmCl							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (25mm OA) - 4mm366/4mmCl							
4700 Thermo + Hybrid Inswing/Outswing (Foam) Bar. Free - (25mm OA) - 4mm366/4mmCl							

4700 Thermo + Hybrid Inswing/Outswing (Steel) - (25mm OA) - 4mm366/4mmi89	0.21	1.19	0.17	0.20 E	1.10 E	0.17 E	0.38
4700 Thermo + Hybrid Inswing/Outswing (Foam) - (25mm OA) - 4mm366/4mmi89							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (25mm OA) - 4mm366/4mmi89							
4700 Thermo + Hybrid Inswing/Outswing (Foam) Bar. Free - (25mm OA) - 4mm366/4mmi89							

4700 Thermo + Hybrid Tilt & Glide (Steel) - (25mm OA) - 4mmCL/4mm180							
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (25mm OA) - 4mmCL/4mm180							

4700 Thermo + Hybrid Tilt & Glide (Steel) - (25mm OA) - 4mm180/4mmCl	0.27	1.50	0.45	0.26 E	1.48 E	0.45 E	0.56
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (25mm OA) - 4mm180/4mmCl							

4700 Thermo + Hybrid Tilt & Glide (Steel) - (25mm OA) - 4mm180/4mmi89							
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (25mm OA) - 4mm180/4mmi89							

4700 Thermo + Hybrid Tilt & Glide (Steel) - (25mm OA) - 4mmCl/4mm270	0.26	1.48	0.33	0.25 E	1.40 E	0.33 E	0.50
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (25mm OA) - 4mmCl/4mm270							

4700 Thermo + Hybrid Tilt & Glide (Steel) - (25mm OA) - 4mm270/4mmCl	0.26	1.48	0.26	0.25 E	1.40 E	0.26 E	0.50
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (25mm OA) - 4mm270/4mmCl							

4700 Thermo + Hybrid Tilt & Glide (Steel) - (25mm OA) - 4mm270/4mmi89	0.22	1.25	0.26	0.21 E	1.19 E	0.26 E	0.49
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (25mm OA) - 4mm270/4mmi89							

4700 Thermo + Hybrid Tilt & Glide (Steel) - (25mm OA) - 6mm(.030 PVB)Lami CL/4mm270							
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (25mm OA) - 6mm(.030 PVB)Lami CL/4mm270							

4700 Thermo + Hybrid Tilt & Glide (Steel) - (25mm OA) - 8mm(.090 PVB)Lami 272/4mmCl							
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (25mm OA) - 8mm(.090 PVB)Lami 272/4mmCl							

4700 Thermo + Hybrid Tilt & Glide (Steel) - (25mm OA) - 8mm(.090 PVB)Lami 272/4mmi89							
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (25mm OA) - 8mm(.090 PVB)Lami 272/4mmi89							
4700 Thermo + Hybrid Tilt & Glide (Steel) - (25mm OA) - 4mmCL/4mm366	0.25	1.40	0.28	0.24 E	1.36 E	0.28 E	0.46
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (25mm OA) - 4mmCL/4mm366							
4700 Thermo + Hybrid Tilt & Glide (Steel) - (25mm OA) - 4mm366/4mmCl	0.25	1.40	0.20	0.24 E	1.36 E	0.20 E	0.46
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (25mm OA) - 4mm366/4mmCl							
4700 Thermo + Hybrid Tilt & Glide (Steel) - (25mm OA) - 4mm366/4mmi89	0.21	1.19	0.20	0.20 E	1.10 E	0.20 E	0.45
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (25mm OA) - 4mm366/4mmi89							
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3400 Bi-Fold (Alum. TB) - (28mm OA) - 4mmCL/5mm180							
3400 Bi-Fold (Alum. TB) - (28mm OA) - 4mm180/5mmCl	0.38	2.16	0.45	0.37 E	2.10 E	0.45 E	0.55
3400 Bi-Fold (Alum. TB) - (28mm OA) - 4mm180/5mmi89							
3400 Bi-Fold (Alum. TB) - (28mm OA) - 5mmCl/4mm270	0.37	2.10	0.33	0.36 E	2.00 E	0.33 E	0.48
3400 Bi-Fold (Alum. TB) - (28mm OA) - 4mm270/5mmCl	0.37	2.10	0.26	0.36 E	2.00 E	0.26 E	0.48
3400 Bi-Fold (Alum. TB) - (28mm OA) - 4mm270/5mmi89	0.33	1.87	0.26	0.32 E	1.80 E	0.26 E	0.47
3400 Bi-Fold (Alum. TB) - (28mm OA) - 6mm(.030 PVB)Lami CL/4mm270							
3400 Bi-Fold (Alum. TB) - (28mm OA) - 8mm(.090 PVB)Lami 272/4mmCl							
3400 Bi-Fold (Alum. TB) - (28mm OA) - 8mm(.090 PVB)Lami 272/4mmi89							
3400 Bi-Fold (Alum. TB) - (28mm OA) - 5mmCL/4mm366	0.37	2.10	0.28	0.36 E	2.00 E	0.28 E	0.45
3400 Bi-Fold (Alum. TB) - (28mm OA) - 4mm366/5mmCl	0.37	2.10	0.20	0.36 E	2.00 E	0.20 E	0.45
3400 Bi-Fold (Alum. TB) - (28mm OA) - 4mm366/5mmi89	0.33	1.87	0.20	0.32 E	1.80 E	0.20 E	0.44
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3600 Lift & Slide Door (24mm OA) - 4mmCL/4mm180	0.27	1.50	0.43	0.26	1.48	0.43	0.50
3600 Lift & Slide Door (24mm OA) - 4mm180/4mmCl	0.27	1.50	0.40	0.26	1.48	0.40	0.50
3600 Lift & Slide Door (24mm OA) - 4mm180/4mmi89	0.23	1.30	0.39	0.23	1.30	0.39	0.49
3600 Lift & Slide Door (24mm OA) - 4mmCl/4mm270	0.26	1.48	0.29	0.25	1.40	0.30	0.44
3600 Lift & Slide Door (24mm OA) - 4mm270/4mmCl	0.26	1.48	0.23	0.25	1.40	0.23	0.44
3600 Lift & Slide Door (24mm OA) - 4mm270/4mmi89	0.23	1.30	0.23	0.22	1.25	0.23	0.43
3600 Lift & Slide Door (24mm OA) - 6mm(.030 PVB)Lami CL/4mm270	0.26	1.48	0.28	0.25	1.40	0.28	0.43
3600 Lift & Slide Door (24mm OA) - 8mm(.090 PVB)Lami 272/4mmCl	0.26	1.48	0.25	0.25	1.40	0.25	0.44
3600 Lift & Slide Door (24mm OA) - 8mm(.090 PVB)Lami 272/4mmi89	0.23	1.25	0.25	0.22	1.25	0.25	0.43
3600 Lift & Slide Door (24mm OA) - 4mmCl/4mm366	0.26	1.48	0.25	0.25	1.40	0.25	0.41
3600 Lift & Slide Door (24mm OA) - 4mm366/4mmCl	0.26	1.48	0.18	0.25	1.40	0.18	0.41
3600 Lift & Slide Door (24mm OA) - 4mm366/4mmi89	0.23	1.30	0.17	0.22	1.25	0.17	0.40
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3700 Multi-Slide Door (24mm OA) - 4mmCL/4mm180	0.31	1.76	0.49	0.29	1.65	0.49	0.57
3700 Multi-Slide Door (24mm OA) - 4mm180/4mmCl	0.31	1.76	0.46	0.29	1.65	0.46	0.57
3700 Multi-Slide Door (24mm OA) - 4mm180/4mmi89	0.27	1.50	0.44	0.26	1.48	0.44	0.55
3700 Multi-Slide Door (24mm OA) - 6mm(.030 PVB)Lami CL/4mm180	0.30	1.70	0.46	0.29	1.65	0.46	0.56
3700 Multi-Slide Door (24mm OA) - 4mmCl/4mm270	0.30	1.70	0.33	0.28	1.59	0.34	0.50
3700 Multi-Slide Door (24mm OA) - 4mm270/4mmCl	0.30	1.70	0.26	0.28	1.59	0.26	0.50
3700 Multi-Slide Door (24mm OA) - 4mm270/4mmi89	0.26	1.48	0.26	0.25	1.40	0.26	0.49
3700 Multi-Slide Door (24mm OA) - 6mm(.030 PVB)Lami CL/4mm270	0.29	1.65	0.32	0.28	1.59	0.32	0.49
3700 Multi-Slide Door (24mm OA) - 8mm(.090 PVB)Lami 272/4mmCl	0.29	1.65	0.29	0.28	1.59	0.28	0.50
3700 Multi-Slide Door (24mm OA) - 8mm(.090 PVB)Lami 272/4mmi89	0.25	1.40	0.28	0.25	1.40	0.28	0.49
3700 Multi-Slide Door (24mm OA) - 4mmCl/4mm366	0.29	1.65	0.28	0.28	1.59	0.29	0.46
3700 Multi-Slide Door (24mm OA) - 4mm366/4mmCl	0.29	1.65	0.20	0.28	1.59	0.20	0.46
3700 Multi-Slide Door (24mm OA) - 4mm366/4mmi89	0.26	1.48	0.20	0.25	1.40	0.20	0.45
3700 Multi-Slide Door (24mm OA) - 6mm(.030 PVB)Lami CL/4mm366	0.29	1.65	0.27	0.28	1.59	0.27	0.45

3800 Smart-Slide Door (24mm OA) - 4mmCL/4mm180	0.28	1.59	0.51	0.27	1.50	0.51	0.59
3800 Smart-Slide Door (24mm OA) - 4mm180/4mmCL	0.28	1.59	0.47	0.27	1.50	0.47	0.59
3800 Smart-Slide Door (24mm OA) - 4mm180/4mmI89	0.24	1.36	0.46	0.23	1.30	0.46	0.58
3800 Smart-Slide Door (24mm OA) -4mmCL/4mm270	0.27	1.50	0.35	0.26	1.48	0.35	0.52
3800 Smart-Slide Door (24mm OA) - 4mm270/4mmCL	0.27	1.50	0.27	0.26	1.48	0.27	0.52
3800 Smart-Slide Door (24mm OA) - 4mm270/4mmI89	0.23	1.30	0.27	0.22	1.25	0.27	0.51
3800 Smart-Slide Door (24mm OA) - 6mm(.030 PVB)Lami CL/4mm270	0.27	1.50	0.33	0.26	1.48	0.33	0.51
3800 Smart-Slide Door (24mm OA) - 8mm(.090 PVB)Lami 272/4mmCL	0.27	1.50	0.30	0.25	1.40	0.30	0.52
3800 Smart-Slide Door (24mm OA) - 8mm(.090 PVB)Lami 272/4mmI89	0.23	1.30	0.29	0.22	1.25	0.29	0.51
3800 Smart-Slide Door (24mm OA) - 4mmCL/4mm366	0.27	1.50	0.30	0.25	1.40	0.30	0.48
3800 Smart-Slide Door (24mm OA) - 4mm366/4mmCL	0.27	1.50	0.21	0.25	1.40	0.21	0.48
3800 Smart-Slide Door (24mm OA) - 4mm366/4mmI89	0.23	1.30	0.20	0.22	1.25	0.20	0.47

**Windows Triple Paned:**

1800 Casement - 35mm OA - 4mmCL/4mmCL/4mm180	0.22	1.25	0.38	0.21	1.19	0.38	0.45
1800 Casement - 35mm OA - 4mm180/4mmCL/4mmCL	0.22	1.25	0.37	0.21	1.19	0.37	0.45
1800 Casement - 35mm OA - 4mm180/4mmCL/4mm180	0.18	1.00	0.35	0.17	0.97	0.35	0.43
1800 Casement - 35mm OA - 4mm180/4mmCL/4mm270	0.18	1.00	0.27	0.17	0.97	0.27	0.38
1800 Casement - 35mm OA - 4mm180/4mm180/4mmI89	0.17	0.97	0.33	0.16	0.90	0.33	0.42
1800 Casement - 35mm OA -9mm(.090 PVB)Lami 180/4mmCL/4mm180	0.23	1.30	0.30	0.21	1.19	0.30	0.41
1800 Casement - 35mm OA - 4mmCL/4mmCL/4mm270	0.21	1.19	0.28	0.20	1.10	0.27	0.39
1800 Casement - 35mm OA - 4mm270/4mmCL/4mmCL	0.21	1.19	0.22	0.21	1.19	0.21	0.39
1800 Casement - 35mm OA - 4mm270/4mmCL/4mm270	0.18	1.00	0.20	0.17	0.97	0.20	0.33
1800 Casement - 35mm OA - 4mm270/4mmCL/4mm180	0.18	1.00	0.21	0.17	0.97	0.21	0.38
1800 Casement - 35mm OA - 4mm270/4mm180/4mmI89	0.17	0.97	0.20	0.16	0.90	0.20	0.37
1800 Casement - 35mm OA - 8mm(.090 PVB)Lami 272/4mmCL/4mmCL	0.22	1.25	0.23	0.20	1.10	0.23	0.40
1800 Casement - 35mm OA - 8mm(.090 PVB)Lami 272/4mmCL/4mm270	0.19	1.08	0.21	0.17	0.97	0.20	0.34
1800 Casement - 35mm OA - 4mmCL/4mmCL/4mm366	0.21	1.19	0.24	0.20	1.10	0.24	0.37
1800 Casement - 35mm OA - 4mm366/4mmCL/4mmCL	0.21	1.19	0.16	0.20	1.10	0.16	0.37
1800 Casement - 35mm OA - 4mm366/4mmCL/4mm180	0.18	1.00	0.16	0.17	0.97	0.16	0.35
1800 Casement - 35mm OA - 4mm366/4mmCL/4mm270	0.18	1.00	0.16	0.17	0.97	0.16	0.31
1800 Casement - 35mm OA- 4mm366/4mmCL/4mm366	0.18	1.00	0.15	0.16	0.90	0.15	0.29
1800 Casement - 35mm OA - 4mm366/4mm180/4mmI89	0.17	0.97	0.15	0.16	0.90	0.15	0.34

1800 Awning - 35mm OA - 4mmCL/4mmCL/4mm180	0.22	1.25	0.38	0.21	1.19	0.38	0.45
1800 Awning - 35mm OA - 4mm180/4mmCL/4mmCL	0.22	1.25	0.37	0.21	1.19	0.37	0.45
1800 Awning - 35mm OA - 4mm180/4mmCL/4mm180	0.18	1.00	0.35	0.17	0.97	0.35	0.43
1800 Awning - 35mm OA - 4mm180/4mmCL/4mm270	0.18	1.00	0.27	0.17	0.97	0.27	0.38
1800 Awning - 35mm OA- 4mm180/4mm180/4mmI89	0.17	0.97	0.33	0.16	0.90	0.33	0.42
1800 Awning - 35mm OA -9mm(.090 PVB)Lami 180/4mmCL/4mm180	0.23	1.30	0.30	0.21	1.19	0.30	0.41
1800 Awning - 35mm OA - 4mmCL/4mmCL/4mm270	0.21	1.19	0.28	0.20	1.10	0.27	0.39
1800 Awning - 35mm OA - 4mm270/4mmCL/4mmCL	0.22	1.25	0.22	0.21	1.19	0.21	0.39
1800 Awning - 35mm OA - 4mm270/4mmCL/4mm270	0.18	1.00	0.20	0.17	0.97	0.20	0.33
1800 Awning - 35mm OA - 4mm270/4mmCL/4mm180	0.18	1.00	0.21	0.17	0.97	0.21	0.38
1800 Awning - 35mm OA - 4mm270/4mm180/4mmI89	0.17	0.97	0.20	0.16	0.90	0.20	0.37
1800 Awning - 35mm OA - 8mm(.090 PVB)Lami 272/4mmCL/4mmCL	0.22	1.25	0.23	0.21	1.19	0.23	0.40
1800 Awning - 35mm OA - 8mm(.090 PVB)Lami 272/4mmCL/4mm270	0.19	1.08	0.21	0.17	0.97	0.20	0.34

1800 Awning - 35mm OA - 4mmCI/4mmCI/4mm366	0.21	1.19	0.24	0.20	1.10	0.24	0.37
1800 Awning - 35mm OA - 4mm366/4mmCI/4mmCI	0.21	1.19	0.16	0.20	1.10	0.16	0.37
1800 Awning - 35mm OA - 4mm366/4mmCI/4mm180	0.18	1.00	0.16	0.17	0.97	0.16	0.35
1800 Awning - 35mm OA - 4mm366/4mmCI/4mm270	0.18	1.00	0.16	0.17	0.97	0.16	0.31
1800 Awning - 35mm OA- 4mm366/4mmCI/4mm366	0.18	1.00	0.15	0.16	0.90	0.15	0.29
1800 Awning - 35mm OA - 4mm366/4mm180/4mmi89	0.17	0.97	0.15	0.16	0.90	0.15	0.34
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1800 Fixed Sash - 35mm OA - 4mmCI/4mmCI/4mm180	0.21	1.19	0.45	0.19	1.08	0.45	0.54
1800 Fixed Sash - 35mm OA - 4mm180/4mmCI/4mmCI	0.21	1.19	0.44	0.20	1.10	0.44	0.54
1800 Fixed Sash - 35mm OA - 4mm180/4mmCI/4mm180	0.17	0.97	0.42	0.16	0.90	0.42	0.52
1800 Fixed Sash - 35mm OA - 4mm180/4mmCI/4mm270	0.16	0.90	0.33	0.15	0.85	0.33	0.46
1800 Fixed Sash - 35mm OA - 4mm180/4mm180/4mmi89	0.15	0.85	0.39	0.14	0.79	0.39	0.51
1800 Fixed Sash - 35mm OA - 9mm(.090 PVB)Lami 180/4mmCI/4mm180	0.22	1.25	0.36	0.19	1.08	0.36	0.50
1800 Fixed Sash - 35mm OA - 4mmCI/4mmCI/4mm270	0.20	1.10	0.33	0.19	1.08	0.33	0.48
1800 Fixed Sash - 35mm OA - 4mm270/4mmCI/4mmCI	0.20	1.10	0.26	0.19	1.08	0.25	0.48
1800 Fixed Sash - 35mm OA - 4mm270/4mmCI/4mm270	0.16	0.90	0.24	0.15	0.85	0.24	0.40
1800 Fixed Sash - 35mm OA - 4mm270/4mmCI/4mm180	0.16	0.90	0.25	0.15	0.85	0.25	0.46
1800 Fixed Sash - 35mm OA - 4mm270/4mm180/4mmi89	0.15	0.85	0.24	0.14	0.79	0.24	0.45
1800 Fixed Sash - 35mm OA - 8mm(.090 PVB)Lami 272/4mmCI/4mmCI	0.21	1.19	0.28	0.19	1.08	0.27	0.48
1800 Fixed Sash - 35mm OA - 8mm(.090 PVB)Lami 272/4mmCI/4mm270	0.17	0.97	0.25	0.15	0.85	0.24	0.41
1800 Fixed Sash - 35mm OA - 4mmCI/4mmCI/4mm366	0.20	1.10	0.29	0.19	1.08	0.29	0.44
1800 Fixed Sash - 35mm OA - 4mm366/4mmCI/4mmCI	0.20	1.10	0.19	0.19	1.08	0.19	0.44
1800 Fixed Sash - 35mm OA - 4mm366/4mmCI/4mm180	0.16	0.90	0.19	0.15	0.85	0.19	0.43
1800 Fixed Sash - 35mm OA - 4mm366/4mmCI/4mm270	0.16	0.90	0.19	0.15	0.85	0.18	0.37
1800 Fixed Sash - 35mm OA - 4mm366/4mmCI/4mm366	0.16	0.90	0.18	0.14	0.79	0.18	0.35
1800 Fixed Sash - 35mm OA - 4mm366/4mm180/4mmi89	0.15	0.85	0.18	0.14	0.79	0.18	0.42
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1800 Small Picture (35mm OA) - 4mmCI/4mmCI/4mm180	0.21	1.19	0.50	0.19	1.08	0.49	0.60
1800 Small Picture (44mm OA) - 4mmCI/4mmCI/4mm180	0.20	1.10	0.49	0.19	1.08	0.49	0.60
1800 Small Picture (35mm OA) - 4mm180/4mmCI/4mmCI	0.21	1.19	0.48	0.20	1.10	0.49	0.60
1800 Small Picture (44mm OA) - 4mm180/4mmCI/4mmCI	0.21	1.19	0.48	0.20	1.10	0.49	0.60
1800 Small Picture (35mm OA) - 4mm180/4mmCI/4mm180	0.16	0.90	0.45	0.15	0.85	0.46	0.58
1800 Small Picture (44mm OA) - 4mm180/4mmCI/4mm180	0.16	0.90	0.46	0.15	0.85	0.46	0.58
1800 Small Picture (35mm OA) - 4mm180/4mmCI/4mm270	0.16	0.90	0.36	0.14	0.79	0.36	0.51
1800 Small Picture (44mm OA) - 4mm180/4mmCI/4mm270	0.15	0.85	0.36	0.15	0.85	0.36	0.51
1800 Small Picture (35mm OA) - 4mm180/4mm180/4mmi89	0.15	0.85	0.43	0.14	0.79	0.43	0.56
1800 Small Picture (44mm OA) - 4mm180/4mm180/4mmi89	0.14	0.79	0.43	0.14	0.79	0.43	0.56
1800 Small Picture (35mm OA) - 9mm(.090 PVB)Lami 180/4mmCI/4mm180	0.22	1.25	0.40	0.19	1.08	0.39	0.55
1800 Small Picture (44mm OA) - 9mm(.090 PVB)Lami 180/4mmCI/4mm180	0.20	1.10	0.39	0.19	1.08	0.39	0.55
1800 Small Picture (35mm OA) - 4mmCI/4mmCI/4mm270	0.20	1.10	0.36	0.19	1.08	0.36	0.53
1800 Small Picture (44mm OA) - 4mmCI/4mmCI/4mm270	0.20	1.10	0.36	0.19	1.08	0.36	0.53
1800 Small Picture (35mm OA) - 4mm270/4mmCI/4mmCI	0.20	1.10	0.28	0.19	1.08	0.28	0.53
1800 Small Picture (44mm OA) - 4mm270/4mmCI/4mmCI	0.20	1.10	0.28	0.19	1.08	0.28	0.53
1800 Small Picture (35mm OA) - 4mm270/4mmCI/4mm270	0.16	0.90	0.26	0.14	0.79	0.26	0.44
1800 Small Picture (44mm OA) - 4mm270/4mmCI/4mm270	0.15	0.85	0.26	0.14	0.79	0.26	0.44
1800 Small Picture (35mm OA) - 4mm270/4mmCI/4mm180	0.16	0.90	0.27	0.14	0.79	0.27	0.51
1800 Small Picture (44mm OA) - 4mm270/4mmCI/4mm180	0.15	0.85	0.27	0.15	0.85	0.27	0.51
1800 Small Picture (35mm OA) - 4mm270/4mm180/4mmi89	0.18	1.00	0.27	0.17	0.97	0.27	0.49
1800 Small Picture (44mm OA) - 4mm270/4mm180/4mmi89	0.14	0.79	0.26	0.13	0.70	0.26	0.49
1800 Small Picture (35mm OA) - 8mm(.090 PVB)Lami 272/4mmCI/4mmCI	0.21	1.19	0.30	0.19	1.08	0.30	0.53
1800 Small Picture (44mm OA) - 8mm(.090 PVB)Lami 272/4mmCI/4mmCI	0.20	1.10	0.30	0.19	1.08	0.30	0.53
1800 Small Picture (35mm OA) - 8mm(.090 PVB)Lami 272/4mmCI/4mm270	0.17	0.97	0.27	0.14	0.79	0.27	0.45
1800 Small Picture (44mm OA) - 8mm(.090 PVB)Lami 272/4mmCI/4mm270	0.15	0.85	0.27	0.14	0.79	0.27	0.45

1800 Small Picture (35mm OA) - 4mmCl/4mmCl/4mm366	0.20	1.10	0.32	0.18	1.00	0.31	0.49
1800 Small Picture (44mm OA) - 4mmCl/4mmCl/4mm366	0.19	1.08	0.32	0.18	1.00	0.32	0.49
1800 Small Picture (35mm OA) - 4mm366/4mmCl/4mmCl	0.20	1.10	0.21	0.19	1.08	0.21	0.49
1800 Small Picture (44mm OA) - 4mm366/4mmCl/4mmCl	0.20	1.10	0.21	0.19	1.08	0.21	0.49
1800 Small Picture (35mm OA) - 4mm366/4mmCl/4mm180	0.16	0.90	0.21	0.14	0.79	0.20	0.47
1800 Small Picture (44mm OA) - 4mm366/4mmCl/4mm180	0.15	0.85	0.20	0.14	0.79	0.20	0.47
1800 Small Picture (35mm OA) - 4mm366/4mmCl/4mm270	0.15	0.85	0.20	0.14	0.79	0.20	0.41
1800 Small Picture (44mm OA) - 4mm366/4mmCl/4mm270	0.15	0.85	0.20	0.14	0.79	0.20	0.41
1800 Small Picture (35mm OA) - 4mm366/4mmCl/4mm366	0.15	0.85	0.20	0.14	0.79	0.20	0.38
1800 Small Picture (44mm OA) - 4mm366/4mmCl/4mm366	0.15	0.85	0.20	0.14	0.79	0.20	0.38
1800 Small Picture (35mm OA) - 4mm366/4mm180/4mmi89	0.14	0.79	0.20	0.13	0.70	0.20	0.46
1800 Small Picture (44mm OA) - 4mm366/4mm180/4mmi89	0.14	0.79	0.20	0.13	0.70	0.20	0.46
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4700 Thermo + Hybrid Tilt & Turn (Steel) - (44mm OA) - 4mmCl/4mmCl/4mm180	0.20	1.10	0.40	0.19	1.08	0.40	0.49
4700 Thermo + PHC Hybrid Tilt & Turn (Foam + MG) - (44mm OA) - 4mmCl/4mmCl/4mm180	0.19	1.08	0.40	0.18	1.00	0.40	0.49
4700 Thermo + Hybrid Tilt & Turn (Steel) - (44mm OA) - 4mm180/4mmCl/4mmCl	0.21	1.19	0.40	0.20	1.10	0.40	0.49
4700 Thermo + PHC Hybrid Tilt & Turn (Foam + MG) - (44mm OA) - 4mm180/4mmCl/4mmCl	0.19	1.08	0.40	0.19	1.08	0.40	0.49
4700 Thermo + Hybrid Tilt & Turn (Steel) - (44mm OA) - 4mm180/4mmCl/4mm180	0.16	0.90	0.37	0.16	0.90	0.37	0.47
4700 Thermo + PHC Hybrid Tilt & Turn (Foam + MG) - (44mm OA) - 4mm180/4mmCl/4mm180	0.15	0.85	0.37	0.15	0.85	0.37	0.47
4700 Thermo + Hybrid Tilt & Turn (Steel) - (44mm OA) - 4mm180/4mm180/4mmi89	0.15	0.85	0.35	0.15	0.85	0.36	0.46
4700 Thermo + PHC Hybrid Tilt & Turn (Foam + MG) - (44mm OA) - 4mm180/4mm180/4mmi89	0.14	0.79	0.35	0.13	0.7	0.36	0.46
4700 Thermo + Hybrid Tilt & Turn (Steel) - (44mm OA) - 9mm(.09PVB)Lami180/4mmCl/4mm180	0.20	1.10	0.32	0.19	1.08	0.32	0.45
4700 Thermo + PHC Hybrid Tilt & Turn (Foam + MG) - (44mm OA) - 9mm(.09PVB)Lami180/4mmCl/4mm180	0.19	1.08	0.32	0.18	1	0.32	0.45
4700 Thermo + Hybrid Tilt & Turn (Steel) - (44mm OA) - 4mmCl/4mmCl/4mm270	0.20	1.10	0.30	0.19	1.08	0.30	0.43
4700 Thermo + PHC Hybrid Tilt & Turn (Foam + MG) - (44mm OA) - 4mmCl/4mmCl/4mm270	0.18	1.00	0.30	0.18	1.00	0.30	0.43
4700 Thermo + Hybrid Tilt & Turn (Steel) - (44mm OA) - 4mm270/4mmCl/4mmCl	0.20	1.10	0.23	0.19	1.08	0.23	0.43
4700 Thermo + PHC Hybrid Tilt & Turn (Foam + MG) - (44mm OA) - 4mm270/4mmCl/4mmCl	0.19	1.08	0.23	0.18	1.00	0.23	0.43
4700 Thermo + Hybrid Tilt & Turn (Steel) - (44mm OA) - 4mm270/4mmCl/4mm270	0.16	0.90	0.21	0.15	0.85	0.21	0.36
4700 Thermo + PHC Hybrid Tilt & Turn (Foam + MG) - (44mm OA) - 4mm270/4mmCl/4mm270	0.15	0.85	0.21	0.14	0.79	0.21	0.36
4700 Thermo + Hybrid Tilt & Turn (Steel) - (44mm OA) - 4mm270/4mmCl/4mm180	0.16	0.90	0.22	0.15	0.85	0.22	0.41
4700 Thermo + PHC Hybrid Tilt & Turn (Foam + MG) - (44mm OA) - 4mm270/4mmCl/4mm180	0.15	0.85	0.22	0.14	0.79	0.22	0.41
4700 Thermo + Hybrid Tilt & Turn (Steel) - (44mm OA) - 4mm270/4mm180/4mmi89	0.15	0.85	0.22	0.14	0.79	0.22	0.40
4700 Thermo + PHC Hybrid Tilt & Turn (Foam + MG) - (44mm OA) - 4mm270/4mm180/4mmi89	0.14	0.79	0.22	0.13	0.70	0.22	0.40
4700 Thermo + Hybrid Tilt & Turn (Steel) - (44mm OA) - 8mm(.09PVB)Lami272/4mmCl/4mmCl	0.20	1.10	0.25	0.19	1.08	0.25	0.43
4700 Thermo + PHC Hybrid Tilt & Turn (Foam + MG) - (44mm OA) - 8mm(.09PVB)Lami272/4mmCl/4mmCl	0.19	1.08	0.25	0.18	1.00	0.25	0.43
4700 Thermo + Hybrid Tilt & Turn (Steel) - (44mm OA) - 8mm(.09PVB)Lami272/4mmCl/4mm270	0.16	0.90	0.22	0.15	0.85	0.22	0.37
4700 Thermo + PHC Hybrid Tilt & Turn (Foam + MG) - (44mm OA) - 8mm(.09PVB)Lami272/4mmCl/4mm270	0.15	0.85	0.22	0.14	0.79	0.22	0.37
4700 Thermo + Hybrid Tilt & Turn (Steel) - (44mm OA) - 4mmCl/4mmCl/4mm366	0.19	1.08	0.26	0.19	1.08	0.26	0.40
4700 Thermo + PHC Hybrid Tilt & Turn (Foam + MG) - (44mm OA) - 4mmCl/4mmCl/4mm366	0.18	1.00	0.26	0.17	0.97	0.26	0.40
4700 Thermo + Hybrid Tilt & Turn (Steel) - (44mm OA) - 4mm366/4mmCl/4mmCl	0.20	1.10	0.17	0.19	1.08	0.17	0.40
4700 Thermo + PHC Hybrid Tilt & Turn (Foam + MG) - (44mm OA) - 4mm366/4mmCl/4mmCl	0.19	1.08	0.17	0.18	1.00	0.17	0.40
4700 Thermo + Hybrid Tilt & Turn (Steel) - (44mm OA) - 4mm366/4mmCl/4mm180	0.16	0.90	0.17	0.15	0.85	0.17	0.38
4700 Thermo + PHC Hybrid Tilt & Turn (Foam + MG) - (44mm OA) - 4mm366/4mmCl/4mm180	0.15	0.85	0.17	0.14	0.79	0.17	0.38
4700 Thermo + Hybrid Tilt & Turn (Steel) - (44mm OA) - 4mm366/4mmCl/4mm270	0.16	0.90	0.17	0.15	0.85	0.17	0.34
4700 Thermo + PHC Hybrid Tilt & Turn (Foam + MG) - (44mm OA) - 4mm366/4mmCl/4mm270	0.15	0.85	0.17	0.14	0.79	0.17	0.34
4700 Thermo + Hybrid Tilt & Turn (Steel) - (44mm OA) - 4mm366/4mmCl/4mm366	0.16	0.90	0.16	0.15	0.85	0.16	0.31
4700 Thermo + PHC Hybrid Tilt & Turn (Foam + MG) - (44mm OA) - 4mm366/4mmCl/4mm366	0.14	0.79	0.16	0.14	0.79	0.16	0.31
4700 Thermo + Hybrid Tilt & Turn (Steel) - (44mm OA) - 4mm366/4mm180/4mmi89	0.15	0.85	0.16	0.14	0.79	0.16	0.37
4700 Thermo + PHC Hybrid Tilt & Turn (Foam + MG) - (44mm OA) - 4mm366/4mm180/4mmi89	0.14	0.79	0.16	0.13	0.70	0.16	0.37
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4700 Thermo + Hybrid Picture (Steel) - (44mm OA) - 4mmCl/4mmCl/4mm180	0.20	1.10	0.47	0.19	1.08	0.47	0.56
4700 Thermo + PHC Hybrid Picture (Foam) - (44mm OA) - 4mmCl/4mmCl/4mm180	0.19	1.08	0.47	0.18	1.00	0.47	0.56
4700 Thermo + Hybrid Picture (Steel) - (44mm OA) - 4mm180/4mmCl/4mmCl	0.21	1.19	0.46	0.20	1.10	0.46	0.56
4700 Thermo + PHC Hybrid Picture (Foam) - (44mm OA) - 4mm180/4mmCl/4mmCl	0.19	1.08	0.46	0.18	1.00	0.46	0.56
4700 Thermo + Hybrid Picture (Steel) - (44mm OA) - 4mm180/4mmCl/4mm180	0.16	0.90	0.43	0.15	0.85	0.43	0.54
4700 Thermo + PHC Hybrid Picture (Foam) - (44mm OA) - 4mm180/4mmCl/4mm180	0.15	0.85	0.43	0.14	0.79	0.43	0.54
4700 Thermo + Hybrid Picture (Steel) - (44mm OA) - 4mm180/4mm180/4mmi89	0.14	0.79	0.41	0.14	0.79	0.41	0.53
4700 Thermo + PHC Hybrid Picture (Foam) - (44mm OA) - 4mm180/4mm180/4mmi89	0.13	0.70	0.41	0.13	0.7	0.41	0.53
4700 Thermo + Hybrid Picture (Steel) - (44mm OA) - 9mm(.09PVB)Lami180/4mmCl/4mm180	0.20	1.10	0.37	0.19	1.08	0.37	0.52
4700 Thermo + PHC Hybrid Picture (Foam) - (44mm OA) - 9mm(.09PVB)Lami180/4mmCl/4mm180	0.19	1.08	0.37	0.17	0.97	0.37	0.52
4700 Thermo + Hybrid Picture (Steel) - (44mm OA) - 4mmCl/4mmCl/4mm270	0.19	1.08	0.34	0.19	1.08	0.34	0.50
4700 Thermo + PHC Hybrid Picture (Foam) - (44mm OA) - 4mmCl/4mmCl/4mm270	0.18	1.00	0.34	0.17	0.97	0.34	0.50

4700 Thermo + Hybrid Picture (Steel) - (44mm OA) - 4mm270/4mmCl/4mmCl	0.20	1.10	0.27	0.19	1.08	0.26	0.50
4700 Thermo + PHC Hybrid Picture (Foam) - (44mm OA) - 4mm270/4mmCl/4mmCl	0.19	1.08	0.27	0.18	1.00	0.26	0.50
4700 Thermo + Hybrid Picture (Steel) - (44mm OA) - 4mm270/4mmCl/4mm270	0.15	0.85	0.24	0.14	0.79	0.25	0.42
4700 Thermo + PHC Hybrid Picture (Foam) - (44mm OA) - 4mm270/4mmCl/4mm270	0.14	0.79	0.24	0.13	0.70	0.25	0.42
4700 Thermo + Hybrid Picture (Steel) - (44mm OA) - 4mm270/4mmCl/4mm180	0.15	0.85	0.26	0.15	0.85	0.26	0.48
4700 Thermo + PHC Hybrid Picture (Foam) - (44mm OA) - 4mm270/4mmCl/4mm180	0.14	0.79	0.26	0.13	0.70	0.26	0.48
4700 Thermo + Hybrid Picture (Steel) - (44mm OA) - 4mm270/4mm180/4mmi89	0.14	0.79	0.25	0.13	0.70	0.25	0.47
4700 Thermo + PHC Hybrid Picture (Foam) - (44mm OA) - 4mm270/4mm180/4mmi89	0.13	0.70	0.25	0.12	0.68	0.25	0.47
4700 Thermo + Hybrid Picture (Steel) - (44mm OA) - 8mm(.09PVB)Lami272/4mmCl/4mmCl	0.20	1.10	0.29	0.19	1.08	0.28	0.50
4700 Thermo + PHC Hybrid Picture (Foam) - (44mm OA) - 8mm(.09PVB)Lami272/4mmCl/4mmCl	0.19	1.08	0.29	0.18	1.00	0.28	0.50
4700 Thermo + Hybrid Picture (Steel) - (44mm OA) - 8mm(.09PVB)Lami272/4mmCl/4mm270	0.15	0.85	0.25	0.14	0.79	0.26	0.42
4700 Thermo + PHC Hybrid Picture (Foam) - (44mm OA) - 8mm(.09PVB)Lami272/4mmCl/4mm270	0.14	0.79	0.25	0.13	0.70	0.26	0.42
4700 Thermo + Hybrid Picture (Steel) - 4mmCl/4mmCl/4mm366	0.19	1.08	0.30	0.18	1.00	0.30	0.46
4700 Thermo + PHC Hybrid Picture (Foam) - 4mmCl/4mmCl/4mm366	0.18	1.00	0.30	0.17	0.97	0.30	0.46
4700 Thermo + Hybrid Picture (Steel) - (44mm OA) - 4mm366/4mmCl/4mmCl	0.20	1.10	0.20	0.19	1.08	0.20	0.46
4700 Thermo + PHC Hybrid Picture (Foam) - (44mm OA) - 4mm366/4mmCl/4mmCl	0.19	1.08	0.20	0.18	1.00	0.20	0.46
4700 Thermo + Hybrid Picture (Steel) - (44mm OA) - 4mm366/4mmCl/4mm180	0.15	0.85	0.19	0.15	0.85	0.19	0.44
4700 Thermo + PHC Hybrid Picture (Foam) - (44mm OA) - 4mm366/4mmCl/4mm180	0.14	0.79	0.19	0.13	0.70	0.19	0.44
4700 Thermo + Hybrid Picture (Steel) - (44mm OA) - 4mm366/4mmCl/4mm270	0.15	0.85	0.19	0.14	0.79	0.19	0.39
4700 Thermo + PHC Hybrid Picture (Foam) - (44mm OA) - 4mm366/4mmCl/4mm270	0.14	0.79	0.19	0.13	0.70	0.19	0.39
4700 Thermo + Hybrid Picture (Steel) - (44mm OA) - 4mm366/4mmCl/4mm366	0.15	0.85	0.19	0.14	0.79	0.19	0.36
4700 Thermo + PHC Hybrid Picture (Foam) - (44mm OA) - 4mm366/4mmCl/4mm366	0.14	0.79	0.19	0.13	0.70	0.19	0.36
4700 Thermo + Hybrid Picture (Steel) - (44mm OA) - 4mm366/4mm180/4mmi89	0.14	0.79	0.19	0.13	0.70	0.19	0.43
4700 Thermo + PHC Hybrid Picture (Foam) - (44mm OA) - 4mm366/4mm180/4mmi89	0.13	0.70	0.19	0.12	0.68	0.19	0.43

**Doors Triple Paned:**

4700 Thermo + Hybrid Inswing/Outswing (Steel) - (44mm OA) - 4mmCl/4mmCl/4mm180	0.19 E	1.08 E	0.37 E	0.18 E	1.00 E	0.37 E	0.45 E
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) - (44mm OA) - 4mmCl/4mmCl/4mm180							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (44mm OA) - 4mmCl/4mmCl/4mm180							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) Bar. Free - (44mm OA) - 4mmCl/4mmCl/4mm180							
4700 Thermo + Hybrid Inswing/Outswing (Steel) - (44mm OA) - 4mm180/4mmCl/4mmCl	0.20 E	1.10 E	0.37 E	0.19 E	1.08 E	0.37 E	0.45 E
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) - (44mm OA) - 4mm180/4mmCl/4mmCl							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (44mm OA) - 4mm180/4mmCl/4mmCl							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) Bar. Free - (44mm OA) - 4mm180/4mmCl/4mmCl							
4700 Thermo + Hybrid Inswing/Outswing (Steel) - (44mm OA) - 4mm180/4mmCl/4mm180	0.17	0.97	0.33	0.16 E	0.90 E	0.33 E	0.42
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) - (44mm OA) - 4mm180/4mmCl/4mm180	0.14	0.79	0.33	0.13 E	0.70 E	0.33 E	0.42
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (44mm OA) - 4mm180/4mmCl/4mm180							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) Bar. Free - (44mm OA) - 4mm180/4mmCl/4mm180							
4700 Thermo + Hybrid Inswing/Outswing (Steel) - (44mm OA) - 4mm180/4mm180/4mmi89							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) - (44mm OA) - 4mm180/4mm180/4mmi89							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (44mm OA) - 4mm180/4mm180/4mmi89							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) Bar. Free - (44mm OA) - 4mm180/4mm180/4mmi89							
4700 Thermo + Hybrid Inswing/Outswing (Steel) - (44mm OA) - 9mm(.09PVB)Lami180/4mmCl/4mm180							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) - (44mm OA) - 9mm(.09PVB)Lami180/4mmCl/4mm180							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (44mm OA) - 9mm(.09PVB)Lami180/4mmCl/4mm180							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) Bar. Free - (44mm OA) - 9mm(.09PVB)Lami180/4mmCl/4mm180							
4700 Thermo + Hybrid Inswing/Outswing (Steel) - (44mm OA) - 4mmCl/4mmCl/4mm270	0.20 E	1.10 E	0.31 E	0.19 E	1.08 E	0.31 E	0.38 E
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) - (44mm OA) - 4mmCl/4mmCl/4mm270							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (44mm OA) - 4mmCl/4mmCl/4mm270							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) Bar. Free - (44mm OA) - 4mmCl/4mmCl/4mm270							
4700 Thermo + Hybrid Inswing/Outswing (Steel) - (44mm OA) - 4mm270/4mmCl/4mmCl	0.20	1.10	0.21	0.19 E	1.08 E	0.21 E	0.38
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) - (44mm OA) - 4mm270/4mmCl/4mmCl							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (44mm OA) - 4mm270/4mmCl/4mmCl							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) Bar. Free - (44mm OA) - 4mm270/4mmCl/4mmCl							
4700 Thermo + Hybrid Inswing/Outswing (Steel) - (44mm OA) - 4mm270/4mmCl/4mm270	0.16	0.90	0.19	0.15 E	0.85 E	0.19 E	0.32
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) - (44mm OA) - 4mm270/4mmCl/4mm270	0.14	0.79	0.19	0.13 E	0.70 E	0.19 E	0.32
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (44mm OA) - 4mm270/4mmCl/4mm270							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) Bar. Free - (44mm OA) - 4mm270/4mmCl/4mm270							
4700 Thermo + Hybrid Inswing/Outswing (Steel) - (44mm OA) - 4mm270/4mmCl/4mm180	0.17	0.97	0.20	0.16 E	0.90 E	0.20 E	0.36
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) - (44mm OA) - 4mm270/4mmCl/4mm180	0.14	0.79	0.20	0.13 E	0.70 E	0.20 E	0.36
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (44mm OA) - 4mm270/4mmCl/4mm180							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) Bar. Free - (44mm OA) - 4mm270/4mmCl/4mm180							
4700 Thermo + Hybrid Inswing/Outswing (Steel) - (44mm OA) - 4mm270/4mm180/4mmi89							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) - (44mm OA) - 4mm270/4mm180/4mmi89							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (44mm OA) - 4mm270/4mm180/4mmi89							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) Bar. Free - (44mm OA) - 4mm270/4mm180/4mmi89							



4700 Thermo + Hybrid Inswing/Outswing (Steel) - (44mm OA) - 8mm(.09PVB)Lami272/4mmCl/4mmCl							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) - (44mm OA) - 8mm(.09PVB)Lami272/4mmCl/4mmCl							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (44mm OA) - 8mm(.09PVB)Lami272/4mmCl/4mmCl							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) Bar. Free - (44mm OA) - 8mm(.09PVB)Lami272/4mmCl/4mmCl							
4700 Thermo + Hybrid Inswing/Outswing (Steel) - (44mm OA) - 8mm(.09PVB)Lami272/4mmCl/4mm270							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) - (44mm OA) - 8mm(.09PVB)Lami272/4mmCl/4mm270							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (44mm OA) - 8mm(.09PVB)Lami272/4mmCl/4mm270							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) Bar. Free - (44mm OA) - 8mm(.09PVB)Lami272/4mmCl/4mm270							
4700 Thermo + Hybrid Inswing/Outswing (Steel) - (44mm OA) - 4mmCl/4mmCl/4mm366	0.20 E	1.10 E	0.28 E	0.19 E	1.08 E	0.28 E	0.35 E
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) - (44mm OA) - 4mmCl/4mmCl/4mm366							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (44mm OA) - 4mmCl/4mmCl/4mm366							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) Bar. Free - (44mm OA) - 4mmCl/4mmCl/4mm366							
4700 Thermo + Hybrid Inswing/Outswing (Steel) - (44mm OA) - 4mm366/4mmCl/4mmCl	0.20	1.10	0.16	0.19 E	1.08 E	0.16 E	0.35
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) - (44mm OA) - 4mm366/4mmCl/4mmCl							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (44mm OA) - 4mm366/4mmCl/4mmCl							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) Bar. Free - (44mm OA) - 4mm366/4mmCl/4mmCl							
4700 Thermo + Hybrid Inswing/Outswing (Steel) - (44mm OA) - 4mm366/4mmCl/4mm180	0.17	0.97	0.15	0.16 E	0.90 E	0.15 E	0.34
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) - (44mm OA) - 4mm366/4mmCl/4mm180	0.14	0.79	0.15	0.13 E	0.70 E	0.15 E	0.34
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (44mm OA) - 4mm366/4mmCl/4mm180							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) Bar. Free - (44mm OA) - 4mm366/4mmCl/4mm180							
4700 Thermo + Hybrid Inswing/Outswing (Steel) - (44mm OA) - 4mm366/4mmCl/4mm270							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) - (44mm OA) - 4mm366/4mmCl/4mm270							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (44mm OA) - 4mm366/4mmCl/4mm270							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) Bar. Free - (44mm OA) - 4mm366/4mmCl/4mm270							
4700 Thermo + Hybrid Inswing/Outswing (Steel) - (44mm OA) - 4mm366/4mmCl/4mm366	0.16	0.90	0.15	0.15 E	0.85 E	0.15 E	0.28
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) - (44mm OA) - 4mm366/4mmCl/4mm366	0.14	0.79	0.15	0.13 E	0.70 E	0.15 E	0.28
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (44mm OA) - 4mm366/4mmCl/4mm366							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) Bar. Free - (44mm OA) - 4mm366/4mmCl/4mm366							
4700 Thermo + Hybrid Inswing/Outswing (Steel) - (44mm OA) - 4mm366/4mm180/4mmi89							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) - (44mm OA) - 4mm366/4mm180/4mmi89							
4700 Thermo + Hybrid Inswing/Outswing (Steel) Bar. Free - (44mm OA) - 4mm366/4mm180/4mmi89							
4700 Thermo + PHC Hybrid Inswing/Outswing (Foam) Bar. Free - (44mm OA) - 4mm366/4mm180/4mmi89							
4700 Thermo + Hybrid Tilt & Glide (Steel) - (44mm OA) - 4mmCl/4mmCl/4mm180	0.19 E	1.08 E	0.43 E	0.18 E	1.00 E	0.43 E	0.52 E
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (44mm OA) - 4mmCl/4mmCl/4mm180							
4700 Thermo + Hybrid Tilt & Glide (Steel) - (44mm OA) - 4mm180/4mmCl/4mmCl	0.20 E	1.10 E	0.43 E	0.19 E	1.08 E	0.43 E	0.52 E
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (44mm OA) - 4mm180/4mmCl/4mmCl							
4700 Thermo + Hybrid Tilt & Glide (Steel) - (44mm OA) - 4mm180/4mmCl/4mm180	0.16	0.90	0.39	0.15 E	0.85 E	0.39 E	0.49
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (44mm OA) - 4mm180/4mmCl/4mm180	0.14	0.79	0.39	0.14 E	0.79 E	0.39 E	0.49
4700 Thermo + Hybrid Tilt & Glide (Steel) - (44mm OA) - 4mm180/4mm180/4mmi89							
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (44mm OA) - 4mm180/4mm180/4mmi89							
4700 Thermo + Hybrid Tilt & Glide (Steel) - (44mm OA) - 9mm(.09PVB)Lami180/4mmCl/4mm180							
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (44mm OA) - 9mm(.09PVB)Lami180/4mmCl/4mm180							
4700 Thermo + Hybrid Tilt & Glide (Steel) - (44mm OA) - 4mmCl/4mmCl/4mm270	0.20 E	1.10 E	0.34 E	0.19 E	1.08 E	0.34 E	0.45 E
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (44mm OA) - 4mmCl/4mmCl/4mm270							
4700 Thermo + Hybrid Tilt & Glide (Steel) - (44mm OA) - 4mm270/4mmCl/4mmCl	0.20	1.10	0.24	0.19 E	1.08 E	0.24 E	0.45
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (44mm OA) - 4mm270/4mmCl/4mmCl							
4700 Thermo + Hybrid Tilt & Glide (Steel) - (44mm OA) - 4mm270/4mmCl/4mm270	0.16	0.90	0.22	0.15 E	0.85 E	0.22 E	0.38
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (44mm OA) - 4mm270/4mmCl/4mm270	0.14	0.79	0.22	0.13 E	0.70 E	0.22 E	0.38
4700 Thermo + Hybrid Tilt & Glide (Steel) - (44mm OA) - 4mm270/4mmCl/4mm180	0.16	0.90	0.23	0.15 E	0.85 E	0.23 E	0.43
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (44mm OA) - 4mm270/4mmCl/4mm180	0.14	0.79	0.23	0.13 E	0.70 E	0.23 E	0.43
4700 Thermo + Hybrid Tilt & Glide (Steel) - (44mm OA) - 4mm270/4mm180/4mmi89							
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (44mm OA) - 4mm270/4mm180/4mmi89							
4700 Thermo + Hybrid Tilt & Glide (Steel) - (44mm OA) - 8mm(.09PVB)Lami272/4mmCl/4mmCl							
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (44mm OA) - 8mm(.09PVB)Lami272/4mmCl/4mmCl							
4700 Thermo + Hybrid Tilt & Glide (Steel) - (44mm OA) - 8mm(.09PVB)Lami272/4mmCl/4mm270							
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (44mm OA) - 8mm(.09PVB)Lami272/4mmCl/4mm270							
4700 Thermo + Hybrid Tilt & Glide (Steel) - (44mm OA) - 4mmCl/4mmCl/4mm366	0.20 E	1.10 E	0.30 E	0.19 E	1.08 E	0.30 E	0.42 E
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (44mm OA) - 4mmCl/4mmCl/4mm366							
4700 Thermo + Hybrid Tilt & Glide (Steel) - (44mm OA) - 4mm366/4mmCl/4mmCl	0.20	1.10	0.18	0.19 E	1.08 E	0.18 E	0.42
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (44mm OA) - 4mm366/4mmCl/4mmCl							
4700 Thermo + Hybrid Tilt & Glide (Steel) - (44mm OA) - 4mm366/4mmCl/4mm180	0.16	0.90	0.18	0.15 E	0.85 E	0.18 E	0.40
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (44mm OA) - 4mm366/4mmCl/4mm180	0.14	0.79	0.18	0.13 E	0.70 E	0.18 E	0.40
4700 Thermo + Hybrid Tilt & Glide (Steel) - (44mm OA) - 4mm366/4mmCl/4mm270							
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (44mm OA) - 4mm366/4mmCl/4mm270							
4700 Thermo + Hybrid Tilt & Glide (Steel) - (44mm OA) - 4mm366/4mmCl/4mm366	0.15	0.85	0.17	0.14 E	0.79 E	0.17 E	0.33
4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (44mm OA) - 4mm366/4mmCl/4mm366	0.14	0.79	0.17	0.13 E	0.70 E	0.17 E	0.33

4700 Thermo + Hybrid Tilt & Glide (Steel) - (44mm OA) - 4mm366/4mm180/4mmi89  
 4700 Thermo + PHC Hybrid Tilt & Glide (Foam) - (44mm OA) - 4mm366/4mm180/4mmi89

3400 Bi-Fold (Alum TB) - (35mm OA) - 4mmCl/4mmCl/4mm180							
3400 Bi-Fold (Alum TB) - (35mm OA) - 4mm180/4mmCl/4mmCl							
3400 Bi-Fold (Alum TB) - (35mm OA) - 4mm180/4mmCl/4mm180	0.28	1.59	0.39	0.27 E	1.50 E	0.39 E	0.48
3400 Bi-Fold (Alum TB) - (35mm OA) - 4mm180/4mm180/4mmi89							
3400 Bi-Fold (Alum TB) - (35mm OA) - 9mm(.09PVB)Lami180/4mmCl/4mm180							
3400 Bi-Fold (Alum TB) - (35mm OA) - 4mmCl/4mmCl/4mm270							
3400 Bi-Fold (Alum TB) - (35mm OA) - 4mm270/4mmCl/4mmCl	0.31	1.76	0.24	0.30 E	1.70 E	0.24 E	0.44
3400 Bi-Fold (Alum TB) - (35mm OA) - 4mm270/4mmCl/4mm270	0.27	1.50	0.23	0.26 E	1.48 E	0.23 E	0.37
3400 Bi-Fold (Alum TB) - (35mm OA) - 4mm270/4mmCl/4mm180	0.27	1.50	0.24	0.26 E	1.48 E	0.24 E	0.43
3400 Bi-Fold (Alum TB) - (35mm OA) - 4mm270/4mm180/4mmi89							
3400 Bi-Fold (Alum TB) - (35mm OA) - 8mm(.09PVB)Lami272/4mmCl/4mmCl							
3400 Bi-Fold (Alum TB) - (35mm OA) - 8mm(.09PVB)Lami272/4mmCl/4mm270							
3400 Bi-Fold (Alum TB) - (35mm OA) - 4mmCl/4mmCl/4mm366							
3400 Bi-Fold (Alum TB) - (35mm OA) - 4mm366/4mmCl/4mmCl	0.31	1.76	0.19	0.30 E	1.70 E	0.19 E	0.41
3400 Bi-Fold (Alum TB) - (35mm OA) - 4mm366/4mmCl/4mm180	0.27	1.50	0.18	0.26 E	1.48 E	0.18 E	0.39
3400 Bi-Fold (Alum TB) - (35mm OA) - 4mm366/4mmCl/4mm270							
3400 Bi-Fold (Alum TB) - (35mm OA) - 4mm366/4mmCl/4mm366	0.27	1.50	0.18	0.26 E	1.48 E	0.18 E	0.32
3400 Bi-Fold (Alum TB) - (35mm OA) - 4mm366/4mmCl/4mmi89 (Not Recom.- Use Lower Cost LoE not i89)	0.29	1.65	0.18	0.28 E	1.59 E	0.18 E	0.40
3400 Bi-Fold (Alum TB) - (35mm OA) - 4mm366/4mm366/4mmi89 (Required to meet VBBL for Energy, Caution: Darker Glass with Double LoE366 - Lower Visibility)	0.25	1.40	0.16	0.24 E	1.36 E	0.16 E	0.32
3400 Bi-Fold (Alum TB) - (35mm OA) - 4mm366/4mm180/4mmi89 (LoE366 in middle pane has lower Uf)	0.26 E	1.48 E	0.19 E	0.25 E	1.40 E	0.19 E	0.40E
3600 Lift & Slide Door (44mm OA) - 4mmCl/4mmCl/4mm180	0.21	1.19	0.38	0.21	1.19	0.38	0.45
3600 Lift & Slide Door (44mm OA) - 4mm180/4mmCl/4mmCl	0.22	1.25	0.37	0.21	1.19	0.37	0.45
3600 Lift & Slide Door (44mm OA) - 4mm180/4mmCl/4mm/180	0.18	1.00	0.35	0.17	0.97	0.35	0.44
3600 Lift & Slide Door (44mm OA) - 4mm180/4mmCl/4mm/270	0.18	1.00	0.28	0.17	0.97	0.28	0.38
3600 Lift & Slide Door (44mm OA) - 4mm180/4mm180/4mm/i89	0.17	0.97	0.33	0.16	0.90	0.33	0.43
3600 Lift & Slide Door (44mm OA) - 9mm(.09PVB)Lami180/4mmCl/4mm180	0.21	1.19	0.30	0.21	1.19	0.30	0.42
3600 Lift & Slide Door (44mm OA) - 4mmCl/4mmCl/4mm270	0.21	1.19	0.28	0.20	1.19	0.28	0.40
3600 Lift & Slide Door (44mm OA) - 4mm270/4mmCl/4mmCl	0.21	1.19	0.22	0.21	1.19	0.22	0.40
3600 Lift & Slide Door (44mm OA) - 4mm270/4mmCl/4mm270	0.17	0.97	0.20	0.17	0.97	0.20	0.34
3600 Lift & Slide Door (44mm OA) - 4mm270/4mmCl/4mm180	0.18	1.00	0.21	0.17	0.97	0.21	0.38
3600 Lift & Slide Door (44mm OA) - 4mm270/4mm180/4mmi89	0.17	0.97	0.20	0.16	0.90	0.20	0.38
3600 Lift & Slide Door (44mm OA) - 8mm(.090 PVB)Lami 272/4mmCl/4mmCl	0.21	1.19	0.23	0.20	1.10	0.23	0.40
3600 Lift & Slide Door (44mm OA) - 8mm(.090 PVB)Lami 272/4mmCl/4mm270	0.17	0.97	0.21	0.17	0.97	0.21	0.34
3600 Lift & Slide Door (44mm OA) - 4mmCl/4mmCl/4mm366	0.21	1.19	0.24	0.20	1.10	0.24	0.37
3600 Lift & Slide Door (44mm OA) - 4mm366/4mmCl/4mmCl	0.21	1.19	0.16	0.20	1.10	0.16	0.37
3600 Lift & Slide Door (44mm OA) - 4mm366/4mmCl/4mm180	0.18	1.00	0.16	0.17	0.97	0.16	0.36
3600 Lift & Slide Door (44mm OA) - 4mm366/4mmCl/4mm270	0.17	0.97	0.16	0.17	0.97	0.16	0.31
3600 Lift & Slide Door (44mm OA) - 4mm366/4mmCl/4mm366	0.17	0.97	0.15	0.17	0.97	0.15	0.29
3600 Lift & Slide Door (44mm OA) - 4mm366/4mm180/4mmi89	0.16	0.90	0.15	0.16	0.90	0.15	0.35
3700 Multi-Slide Door (32mm OA) - 4mmCl/4mmCl/4mm180	0.26	1.48	0.43	0.23	1.30	0.43	0.52
3700 Multi-Slide Door (32mm OA) - 4mm180/4mmCl/4mmCl	0.26	1.48	0.42	0.24	1.36	0.42	0.52
3700 Multi-Slide Door (32mm OA) - 4mm180/4mmCl/4mm180	0.23	1.30	0.39	0.20	1.10	0.40	0.50

3700 Multi-Slide Door (32mm OA) - 4mm180/4mmCI/4mm270	0.22	1.25	0.31	0.19	1.08	0.31	0.44
3700 Multi-Slide Door (32mm OA) - 4mm180/4mm180/4mm/i89	0.21	1.19	0.37	0.19	1.08	0.38	0.48
3700 Multi-Slide Door (32mm OA) -4mm180/6mm(.03PVB)LamiCI/4mmCI	0.26	1.48	0.41	0.24	1.36	0.41	0.51
3700 Multi-Slide Door (32mm OA) -4mm180/6mm(.03PVB)LamiCI/4mm180	0.23	1.30	0.39	0.20	1.10	0.39	0.49
3700 Multi-Slide Door (32mm OA) -9mm(.09PVB)Lami180/4mmCI/4mmCI	0.34	1.90	0.37	0.31	1.76	0.37	0.49
3700 Multi-Slide Door (32mm OA) -9mm(.09PVB)Lami180/4mmCI/4mm180	0.27	1.50	0.35	0.24	1.36	0.34	0.47
3700 Multi-Slide Door (32mm OA) -4mmCI/4mmCI/4mm270	0.26	1.48	0.32	0.23	1.30	0.31	0.45
3700 Multi-Slide Door (32mm OA) -4mm270/4mmCI/4mmCI	0.26	1.48	0.25	0.23	1.30	0.24	0.45
3700 Multi-Slide Door (32mm OA) - 4mm270/4mmCI/4mm270	0.22	1.25	0.23	0.19	1.08	0.22	0.38
3700 Multi-Slide Door (32mm OA) - 4mm270/4mmCI/4mm180	0.22	1.25	0.24	0.19	1.08	0.24	0.44
3700 Multi-Slide Door (32mm OA) - 4mm270/4mm180/4mmi89	0.21	1.19	0.23	0.18	1.00	0.23	0.43
3700 Multi-Slide Door (32mm OA) - 4mm270/6mm(.03 PVB)LamiCI/4mmCI	0.26	1.48	0.24	0.23	1.30	0.24	0.45
3700 Multi-Slide Door (32mm OA) - 4mm270/6mm(.03 PVB)LamiCI/4mm180	0.22	1.25	0.23	0.19	1.08	0.23	0.43
3700 Multi-Slide Door (32mm OA) - 4mm270/6mm(.03 PVB)LamiCI/4mm366	0.22	1.25	0.22	0.19	1.08	0.22	0.38
3700 Multi-Slide Door (32mm OA) - 6mm(.03 PVB)Lami270/4mmCI/4mmCI	0.26	1.48	0.24	0.23	1.30	0.23	0.45
3700 Multi-Slide Door (32mm OA) - 6mm(.03 PVB)Lami270/4mmCI/4mm270	0.22	1.25	0.22	0.19	1.08	0.21	0.38
3700 Multi-Slide Door (32mm OA) - 4mmCI/4mmCI/4mm366	0.25	1.40	0.28	0.22	1.25	0.27	0.42
3700 Multi-Slide Door (32mm OA) - 4mm366/4mmCI/4mmCI	0.26	1.48	0.19	0.23	1.30	0.18	0.42
3700 Multi-Slide Door (32mm OA) - 4mm366/4mmCI/4mm180	0.22	1.25	0.18	0.19	1.08	0.18	0.41
3700 Multi-Slide Door (32mm OA) - 4mm366/4mmCI/4mm270	0.22	1.25	0.18	0.19	1.08	0.18	0.36
3700 Multi-Slide Door (32mm OA) - 4mm366/4mmCI/4mm366	0.22	1.25	0.18	0.19	1.08	0.17	0.33
3700 Multi-Slide Door (32mm OA) - 4mm366/4mm180/4mmi89	0.21	1.19	0.17	0.18	1.00	0.17	0.40
3700 Multi-Slide Door (32mm OA) - 4mm366/6mm(.03 PVB)LamiCI/4mmCI	0.26	1.48	0.18	0.23	1.30	0.18	0.41
3700 Multi-Slide Door (32mm OA) - 4mm366/6mm(.03 PVB)LamiCI/4mm180	0.22	1.25	0.18	0.19	1.08	0.18	0.40
3700 Multi-Slide Door (32mm OA) - 4mm366/6mm(.03 PVB)LamiCI/4mm366	0.22	1.25	0.17	0.19	1.08	0.17	0.33
3700 Multi-Slide Door (32mm OA) - 6mm(.03 PVB)Lami366/4mmCI/4mmCI	0.26	1.48	0.19	0.23	1.30	0.18	0.41
3700 Multi-Slide Door (32mm OA) - 6mm(.03 PVB)Lami366/4mmCI/4mm270	0.22	1.25	0.18	0.19	1.08	0.18	0.35
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3800 Smart-Slide Door (40mm OA) -4mmCI/4mmCI/4mm180	0.22	1.25	0.45	0.21	1.19	0.45	0.54
3800 Smart-Slide Door (40mm OA) - 4mm180/4mmCI/4mmCI	0.22	1.25	0.44	0.21	1.19	0.44	0.54
3800 Smart-Slide Door (40mm OA) - 4mm180/4mmCI/4mm/180	0.18	1.00	0.41	0.17	0.97	0.41	0.52
3800 Smart-Slide Door (40mm OA) - 4mm180/4mmCI/4mm/270	0.17	0.97	0.32	0.17	0.97	0.32	0.45
3800 Smart-Slide Door (40mm OA) - 4mm180/4mm180/4mm/i89	0.16	0.90	0.39	0.16	0.90	0.39	0.51
3800 Smart-Slide Door (40mm OA) -9mm(.09PVB)Lami180/4mmCI/4mm180	0.22	1.25	0.36	0.21	1.19	0.35	0.49
3800 Smart-Slide Door (40mm OA) -4mmCI/4mmCI/4mm270	0.21	1.19	0.33	0.20	1.10	0.33	0.47
3800 Smart-Slide Door (40mm OA) -4mm270/4mmCI/4mmCI	0.22	1.25	0.25	0.21	1.19	0.25	0.47
3800 Smart-Slide Door (40mm OA) - 4mm270/4mmCI/4mm270	0.17	0.97	0.23	0.16	0.90	0.23	0.40
3800 Smart-Slide Door (40mm OA) - 4mm270/4mmCI/4mm180	0.18	1.00	0.25	0.17	0.97	0.25	0.45
3800 Smart-Slide Door (40mm OA) - 4mm270/4mm180/4mmi89	0.16	0.90	0.24	0.15	0.85	0.24	0.44
3800 Smart-Slide Door (40mm OA) - 8mm(.090 PVB)Lami 272/4mmCI/4mmCI	0.22	1.25	0.27	0.21	1.19	0.27	0.48
3800 Smart-Slide Door (40mm OA) - 8mm(.090 PVB)Lami 272/4mmCI/4mm270	0.17	0.97	0.24	0.16	0.90	0.24	0.40
3800 Smart-Slide Door (40mm OA) - 4mmCI/4mmCI/4mm366	0.21	1.19	0.29	0.20	1.10	0.28	0.44
3800 Smart-Slide Door (40mm OA) - 4mm366/4mmCI/4mmCI	0.22	1.25	0.19	0.21	1.19	0.19	0.44
3800 Smart-Slide Door (40mm OA) - 4mm366/4mmCI/4mm180	0.17	0.97	0.19	0.17	0.97	0.18	0.42
3800 Smart-Slide Door (40mm OA) - 4mm366/4mmCI/4mm270	0.17	0.97	0.18	0.16	0.90	0.18	0.37
3800 Smart-Slide Door (40mm OA) - 4mm366/4mmCI/4mm366	0.17	0.97	0.18	0.16	0.90	0.18	0.35
3800 Smart-Slide Door (40mm OA) - 4mm366/4mm180/4mmi89	0.16	0.90	0.18	0.15	0.85	0.18	0.41

**Technical Notes**

All above values are based on no grids

IP Units = Btu/h-ft<sup>2</sup>-F

SI units = W/m<sup>2</sup>-K

Convert from IP units to SI units = IP Units x 5.678

"**Caution**" on rounding values (Refer to separate documentation)

If 2nd decimal is 5 or greater - Do not round 2nd decimal up or down

If 2nd decimal is 4 or less - Round 2nd decimal down to zero (0)

Triple Glaze option Clear/LoE180/LoE180 is not recommended due to high thermal breakage requiring tempering and has same performance as lower cost LoE180/Clear/Lo180 (Tempering not required).

Optimal air spacer bar depth/size for lowest u-factor under NFRC environmental conditions is 1/2" (12.7mm)

**Cardinal IG 6mm** (.030 PVB) Lami CL = **PFG 3mm**/.030 PVB/3mm Lami CL = 6.96mm Actual Thickness

**Cardinal IG 8mm** (.090 PVB) Lami 272 = **PFG 3mm**/.090 PVB/3mm Lami 272 = 8.49mm Actual Thickness

**Cardinal IG 9mm** (.090 PVB) Lami 180 = **PFG 3mm**/.090 PVB/3mm Lami 180 = 8.49mm Actual Thickness

1800 Series Double Glaze Overall IGU Thickness (OA) = 25mm +/- 1mm

1800 Series Triple Glaze Overall IGU Thickness (OA) = 35mm +/- 1mm

1800 Series Triple Glaze (Small picture) Overall IGU Thickness (OA) = 44mm +/- 1mm

4700 Series Double Glaze Overall IGU Thickness (OA) = 24mm +/- 1mm

4700 Series Triple Glaze Overall IGU Thickness (OA) = 44mm +/- 1mm

3400 Series Folding Door Double Glaze Overall IGU Thickness (OA) = 28mm +/- 1mm

3400 Series Folding Door Triple Glaze Overall IGU Thickness (OA) = 35mm +/- 1mm

3600 Series Lift-Slide Door Double Glaze Overall IGU Thickness (OA) = 24mm +/- 1mm

3600 Series Lift-Slide Door Triple Glaze Overall IGU Thickness (OA) = 44mm +/- 1mm

3700 Series Multi-Slide Door Double Glaze Overall IGU Thickness (OA) = 24mm +/- 1mm

3700 Series Multi-Slide Door Triple Glaze Overall IGU Thickness (OA) = 32mm +/- 1mm

3800 Series Smart-Slide Door Double Glaze Overall IGU Thickness (OA) = 24mm +/- 1mm

3800 Series Smart-Slide Door Triple Glaze Overall IGU Thickness (OA) = 40mm +/- 1mm

4700 Series Inswing/Outswing Door has three sill options as follows:

> Standard Sill

> Low Sill

> Barrier-Free Sill

4700 Series Inswing & Outswing values are grouped together

4700 Series Standard Sill and Low Sill values are grouped together

4700 Series Inswing/Outswing Door - Bar. Free refers to Barrier-Free Sill applications only

Various glazing stop options (Not stock - special order) exist to provide for alternate overall igu thicknesses (Ex. 20mm +/- 1mm OA for NFRC optimized 4mm/4mm glass)