

SAPA FACADE SYSTEM 4150/4150 SX U VALUES FOR GLASS FACADES

U values for glass facades

Formula for calculating the total U value of a facade, taking into account the glazing unit, the share of profiles and edge zone, affect the linear factor.

$$U_{cw} = (Ag * Ug + Af * Uf + lg * \psi_g) / (Ag + Af)$$

Tables below present the total U value of a facade for different glazing units and spacer. The calculations are based on the requirements and general guidelines contained in the Swedish construction regulations BBR 2008, chapter 9 and the calculations standard for curtain walls EN 13947:2006

SAPA FACADE SYSTEM 4150, DOUBLE-GLAZED. U VALUE							
	Glass, U _g W/m ² K (centre point). Spacer, warm edge.						
Profile share	1,0	1,1	1,2	1,3	1,4	1,5	1,6
5 %	1,1	1,2	1,3	1,4	1,5	1,6	1,7
10 %	1,2	1,3	1,4	1,5	1,6	1,7	1,8
15 %	1,4	1,5	1,6	1,6	1,7	1,8	1,9

SAPA FACADE SYSTEM 4150, TRIPLE-GLAZED. U VALUE						
	Glass, U _g W/m ² K (centre point). Spacer, warm edge.					
Profile share	0,5	0,6	0,7	0,8	0,9	1,0
5 %	0,60	0,70	0,79	0,89	0,98	1,1
10 %	0,73	0,82	0,91	1,0	1,1	1,2
15 %	0,85	0,94	1,0	1,1	1,2	1,3

SAPA FACADES YSTEM 4150 SX, TRIPLE-GLAZED. U VALUE						
	Glass, U _g W/m ² K (centre point). Spacer, warm edge.					
Profile share	0,5	0,6	0,7	0,8	0,9	1,0
5 %	0,59	0,68	0,78	0,87	0,97	1,1
10 %	0,69	0,78	0,87	0,96	1,0	1,1
15 %	0,79	0,88	0,96	1,0	1,1	1,2

Profile share	Glass sizes, approx.
5 %	2500 x 3000 mm
10 %	1100 x 1500 mm
15 %	800 x 800 mm

