

# SAPA FACADE SYSTEM 5050 SG 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.

$$U_{cw} = (A_g * U_g + A_f * U_f + l_g * \psi_g) / (A_g + A_f)$$

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 5050 SG, DOUBLE-GLAZED. U VALUE

	Glass, U <sub>g</sub> W/m <sup>2</sup> K (centre point). Spacer, warm edge.						
Profile share	1,0	1,1	1,2	1,3	1,4	1,5	1,6
5 %	1,2	1,3	1,4	1,5	1,6	1,7	1,8
10 %	1,4	1,5	1,5	1,6	1,7	1,8	1,9
15 %	1,5	1,6	1,7	1,8	1,9	2,0	2,1

### SAPA FACADE SYSTEM 5050 SG - TRIPLE-GLAZED. U VALUE

	Glass, U <sub>g</sub> W/m <sup>2</sup> K (centre point). Spacer, warm edge.					
Profile share	0,5	0,6	0,7	0,8	0,9	1,0
5 %	0,65	0,74	0,84	0,93	1,0	1,1
10 %	0,80	0,89	0,98	1,1	1,2	1,2
15 %	0,95	1,0	1,1	1,2	1,3	1,4

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

