

SURFACE CONDUCTANCE FOR AIR FILMS

		Surface Conductance [W/m ² K]		
		Surface Emissivity		
Position of Surface	Flow Direction	$\varepsilon = 0.90$	$\varepsilon = 0.20$	$\varepsilon = 0.05$
Still Air				
Horizontal	Up	9.3	5.2	4.3
Vertical	Horizontal	8.3	4.2	3.4
Horizontal	Down	6.1	2.1	1.25
Moving Air (any position)				
24 km/h (winter)	Any	34		
12 km/h (summer)	Any	23		

Adapted from: Hutcheon & Handegord, table 8.2