

CONDUCTANCE ACROSS PLANE AIR SPACES

		Thermal Conductance [W/m²K]					
		Air Space		Thickness			
		Mean Temp [°C]	Temp Diff [°C or K]	19 mm		92 mm	
Position	Flow Direction			E = 0.03	E = 0.82	E = 0.03	E = 0.82
Horizontal	Up	30	5	2.4	7.5	1.9	7.0
		10	20	3.3	7.0	2.7	6.6
		-20	10	3.1	6.1	2.5	5.6
Vertical	Horizontal	30	5	1.6	6.8	1.5	6.6
		10	20	1.9	5.9	2.0	6.1
		-20	10	1.8	4.8	1.9	4.9
Horizontal	Down	30	—	1.6	6.8	0.56	5.7
		10	—	1.5	5.6	0.51	4.6
		-20	—	1.3	4.3	0.45	3.5

Adapted from: Hutcheon & Handegord, table 8.4