

POLAR-100 partitioning system

Acoustic Performance Summary



Acoustic Performance

The following information is a summary of tests carried out in accordance with BS EN ISO 140-3 for measurements of airborne sound insulation of building elements and that the resulting R_w measurements are derived from BS EN ISO 717/1: 1997.

Construction / Combination	Partition Construction Height (mm)	Performance	Performance Summary
Solid			
2 x 12.5mm Plasterboard with insulation	-	-	-
1 x 12.5mm Plasterboard / 1 x 12.5mm SoundBloc with insulation & skirting infill	-	45dB(Rw)	-
2 x 12.5mm SoundBloc with insulation & skirting infill	-	48dB(Rw)	-
PolarTec-100 12.5mm SoundBloc / 13mm Rigidur with insulation & skirting infill	-	50dB(Rw)	PO-100 / S1
Single Glazed			
10mm Toughened - dry joint	-	31dB(Rw) ⁽¹⁾	-
12mm Toughened - dry joint	-	32dB(Rw) ⁽¹⁾	-
12mm Komfort Intum. - dry joint	-	34dB(Rw) ⁽¹⁾	-
Double Glazed			
- 6mm Toughened / 10mm Toughened - dry joint & ghost post	-	41dB(Rw) ⁽¹⁾	-
- 8mm Toughened / 10mm Toughened - dry joint & ghost post	-	40dB(Rw) ⁽¹⁾	-
- 10mm Toughened / 10mm Toughened - dry joint & ghost post	-	40dB(Rw) ⁽¹⁾	-
- 10mm Toughened / 12mm Toughened - dry joint & ghost post	-	41dB(Rw) ⁽¹⁾	-
- 10mm Toughened / 12.8mm Stadip Silence - dry joint & ghost post	-	45dB(Rw) ⁽¹⁾	-
- 12mm Komfort Intum. / 10mm Toughened - dry joint without ghost post	-	46dB(Rw) ⁽¹⁾	-
PolarTec-100 Dado D. Glazed 12mm Komfort Intum. / 10mm Toughened - dry joint, ghost post	-	46dB(Rw)	PO-100 / S2
PolarTec-100 Dado D. Glazed 12.8mm Laminate / 10mm Toughened, dry joint without ghost post	-	48dB(Rw)	PO-100 / S3

❖ PolarTec-100 deflection head is also available with a plus 0 minus 25 or plus/minus 25mm.

The Performance Summary colour indicated the following:

■ = Data issued ■ = Data available, to be issued ✖ = Data not available,

⁽¹⁾ Performance rating stated are estimated based on the difference between the system known results and other systems achieved tests results.

⁽²⁾ Performance rating stated applies to test results applicable within the standard for fully glazed partition.

