



### SOUND REDUCTION INDEX

	125	250	500	1k	2k	4k Hz
TRANSMAT	18	23	26	29	38	41 dB
0.8mm SHEET STEEL	21	26	28	30	38	41 dB
0.8mm SHEET STEEL + TRANSMAT	29	33	34	36	44	46 dB

### DUCT TRANSMISSION LOSS

	125	250	500	1k	2k	4k Hz
0.8mm STEEL DUCT	23	24	25	28	31	35 dB
0.8mm STEEL DUCT + TRANSMAT	29	30	29	31	33	35 dB

### INSERTION LOSS

	125	250	500	1k	2k	4k Hz
TRANSMAT	6	6	4	3	2	0 dB

NOTE 1 : The SOUND REDUCTION INDEX data has been measured in accordance with BS2750:1980 and ISO140:1978. These indices are intended for use in the calculation of sound insulation of building elements, and may not give representative results when applied to duct or small enclosure systems.

NOTE 2 : The DUCT TRANSMISSION LOSS is defined as the difference between the in-duct and radiated sound power level of ductwork constructed to DW142 specification. This value is the most suitable for predicting the room sound pressure level caused by duct radiated noise.

The DUCT TRANSMISSION LOSS data shown is only applicable to rectangular ducts of major dimension 600 - 1200mm. Consult ALLAWAY ACOUSTICS LIMITED for information on rectangular ducts of dimensions outside these limits, or for details of circular and flat-oval ducts.

The DUCT TRANSMISSION LOSS data may be used in Line 'D' of the calculation procedure :  
'DUCT BREAKOUT - D.B. CALCULATION'

NOTE 3 : The INSERTION LOSS is defined as the reduction in duct radiated sound power level resulting from the application of the material.