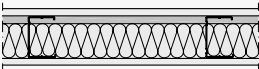
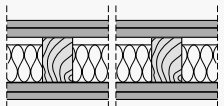
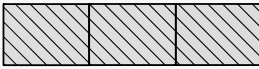


Room-to-room sound attenuation

Sliding doors with sound attenuation

Derivation of sound attenuation values

All reference values have been measured on the basis of a practical design. The R_w sound attenuation values specify the expected sound attenuation between the two rooms which are influenced by the wall, the system and the choice of door leaf.

Example walls	System	Thickness of door leaf	Type of door leaf	Estimated sound attenuation effect
				Room to room R_w
Wall with minimum acoustic rating of R_w 52 dB Lightweight construction wall with metal stand 	without Hawa Acoustics	39 mm	Single door leaf without sealing system	≈ 18 dB
	Hawa Porta 60 HMD Acoustics Hawa Porta 100 HMD Acoustics		Single door leaf, approx. 19 kg/m ² acoustic rating of R_w 29 dB	≈ 31 dB
			Chipboard, approx. 25 kg/m ² No defined acoustic rating	≈ 30 dB
			Door leaf with medium sound attenuation level approx. 25 kg/m ² , acoustic rating of R_w 39 dB	≈ 34 dB
Lightweight construction wall with wooden stand 	Hawa Junior 100 B Acoustics Hawa Porta 60 HMD Acoustics Hawa Porta 100 HMD Acoustics	44 mm	Single door leaf, approx. 20 kg/m ² acoustic rating of R_w 29 dB	≈ 30 dB
	Hawa Junior 100 B Acoustics	Door leaf with medium sound attenuation level approx. 28 kg/m ² , acoustic rating of R_w 40 dB	≈ 34 dB	
		Door leaf with high sound attenuation level approx. 33 kg/m ² , acoustic rating of R_w 42 dB	≈ 35 dB	
Solid wall 	without Hawa Acoustics	39 mm	Single door leaf without sealing system	≈ 20 dB
	Hawa Porta 60 HMT Pocket Acoustics Hawa Porta 100 HMT Pocket Acoustics		Single door leaf, approx. 19 kg/m ² , acoustic rating of R_w 29 dB	≈ 31 dB
		Hawa Junior 100 B Pocket Acoustics Hawa Porta 60 HMT Pocket Acoustics Hawa Porta 100 HMT Pocket Acoustics	Door leaf with medium sound attenuation level approx. 25 kg/m ² , acoustic rating of R_w 39 dB	≈ 37 dB
	44 mm		Single door leaf, approx. 20 kg/m ² acoustic rating of R_w 29 dB	≈ 32 dB
			Door leaf with medium sound attenuation level approx. 28 kg/m ² , acoustic rating of R_w 40 dB	≈ 39 dB
	50 mm		Door leaf with high sound attenuation level approx. 33 kg/m ² , acoustic rating of R_w 42 dB	≈ 41 dB

Reference values tested with a lightweight construction wall in accordance with James Hardy (type 1 H 31 / R_w 52 dB), size 2.5 x 2.45 m in accordance with DIN EN ISO 10140-2. Clearance 2.0 x 1.0 m. The sound attenuation relates to the entire structure and specifies which sound attenuation can be expected between the two rooms.