



## SAUERLAND SERVICE CENTRE

### Sound Test according to DIN EN ISO 140 Analysis according to DIN EN ISO 717

- **Testing station according to DIN EN ISO 140-1**

Volume sender room:	72 m <sup>3</sup>
Volume reception room:	70 m <sup>3</sup>
Surrounding walls:	double wall with 50mm mineral wool Reception room: 24cm lime sand brick 406 kg/m <sup>2</sup> Sender room: 24cm perforated brick 184 kg/m <sup>2</sup>
Opening:	1.030 mm x 2.010 mm = 2.070 m <sup>2</sup> testing surface
Flank insulation of testing station:	R <sub>w</sub> = 79 dB
Limit of insulation:	R <sub>w</sub> = 59 dB
Possible conditions of installation:	Opening 1.000 mm x 2.000 mm Door blanks / Standard frames Steel frames (available in our lab)

- **Measurement according to DIN EN ISO 140-3**

Test sound:	pink noise
Reception filter:	Third filter 100 Hz – 5000 Hz

- **Analysis according to DIN EN ISO 717**

Software:	NOR-SIC for Windows, Norsonic Brechbühl AG, D-59302 Oelde-Stromberg
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- **Technical Equipment**

Measuring instrument:	Norsonic Type SA110
Power amplifier:	Norsonic Type 235 with noise generator Type 230
Microphone:	Norsonic Type 1220 with pre-amplifier Type 1201
Mikrophone rotating mechanism:	Norsonic Type 231 360°
Speaker : sender room:	Norsonic Type 229
reception room:	Norsonic Type NHL 934
Calibration equipment:	Norsonic Type 1251
In-house calibration:	before every test
Official calibration:	once a year by the Board of Weights and Measures Dortmund