

# TVS Construction Mat AFM-33

TECHNICAL INFORMATION

## MATERIAL DESCRIPTION & PROPERTIES

$\Delta L_w = 33\text{dB}$

### Applications

- Impact noise insulation underneath screed flooring
- Supermarkets
- Hotels
- Fitness studios
- Hospitals and nursing homes
- Production halls and warehouses

### Advantages and benefits

- Highly effective over the entire load range
- Low installed height – particularly suitable for refurbishments
- Quick installation – does not need to be bonded to the sub-floor
- Easy handling
- Outstanding performance over lifetime of the building

### Physical Information

**Material:** 100 % polyurethane

**Colour:** Olive-green

**Load range:** 2,500kg/m<sup>2</sup>

**Thickness:** 16mm

**Dyn. rigidity s':** ≤13 MN/m<sup>3</sup> (EN 29052-1)

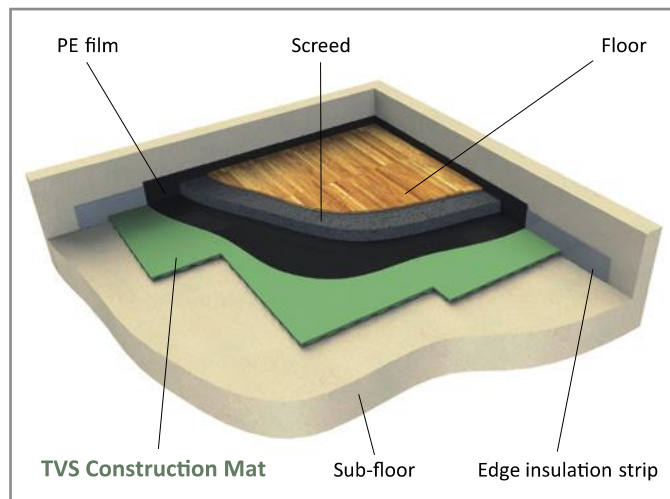
**Compressibility c(dL-dB):** ≤2mm (EN 12431)

**Fire resistance:** Class E (EN ISO 11925-2)  
normal flammable, EN 13501-1

**Thermal conductivity:** 0.05 W/mk (EN 12667)

**Temperature resistance:** -30 to 70°C –  
higher temperatures possible for short periods

**National technical approval no:** Z-23.21-1940



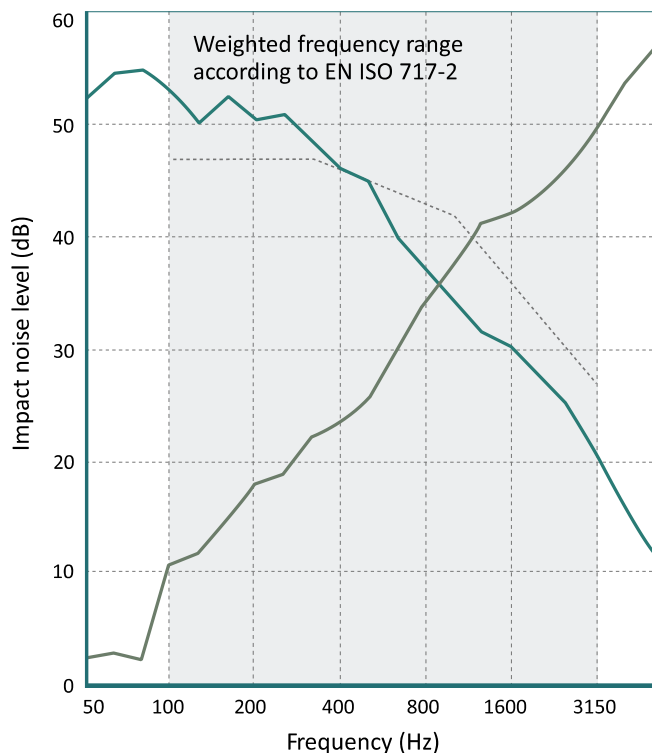
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**TVS ACOUSTICS**  
NOISE & VIBRATION CONTROL

## Impact noise improvement level according to EN ISO 10140-3



f in Hz	$L_n$ in dB	$\Delta L$ in dB
50	52.5	2.3
63	54.6	2.9
80	54.9	2.3
100	53.2	11.0
125	50.3	11.7
160	52.8	14.8
200	50.4	18.1
250	51.0	18.9
315	48.4	22.2
400	46.0	23.5
500	45.0	25.8
630	40.1	30.4
800	37.3	34.6
1,000	34.3	37.7
1,250	31.5	41.2
1,600	30.2	42.2
2,000	27.6	43.8
2,500	25.2	46.2
3,150	20.9	49.6
4,000	16.1	53.8
5,000	12.0	56.7

**Test assembly:**  
80 mm cement screed  
(179 kg/m<sup>2</sup>)  
16 mm AFM 33  
(s' 13 MN/m<sup>3</sup>)  
160 mm reinforced concrete  
ceiling (400 kg/m<sup>2</sup>)

— Measurement curve  
- - - Reference curve  
— Improvement of impact noise



All information and data is based on our current level of knowledge. It can be used in calculations and for reference purposes. It is subject to typical manufacturing tolerances and does not represent warranted properties. Subject to change without notice.

**TVS CONSTRUCTION MAT AFM-33**  
**Product Data Sheet PDS 1.1 TVS CONSTRUCTION MAT AFM-33**  
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