

Type: Red Power Block 10 (Length 395 mm)

Dimensions
(Length x width x height) 395x97x196 [mm]

Gross dry density 925 kg/m³

Calculation of area-related mass:

1 cm lime-cement plaster	0,01m x 1300 kg/m ³ =	13,00 kg/m ²
Red Power Block 22	0,097m x 925 kg/m ³ =	89,73 kg/m ²
1 cm lime-cement plaster	0,01m x 1300 kg/m ³ =	13,00 kg/m ²
Total area-related mass =		115,73 kg/m²

Total thickness = 0,117 m

Density of the total wall = 989,15 kg/m³

Frequency of coincidence ($E_{dyn} = 15 \text{ GPa}$) $f_c \approx$ **142 Hz**

Frequency of coincidence ($E_{dyn} = 10 \text{ GPa}$) $f_c \approx$ **173 Hz**

Frequency of coincidence ($E_{dyn} = 5 \text{ GPa}$) $f_c \approx$ **250 Hz**

R_w from the equation of the mass curve for concrete, concrete stones, limestone and brick from DIN 4109-32:2016 (as a homogeneous construction without web structure): **41,6 dB**

Type: Red Power Block 10 (Length = 395 mm)
Calculation as a homogeneous component

