

**Type: Red Power Block 22 (Length 397 mm)**

**Dimensions**  
(Length x width x height) 397x213x200 [mm]

**Gross dry density** 827 kg/m<sup>3</sup>

**Calculation of area-related mass:**

1 cm lime-cement plaster	0,01m x 1300 kg/m <sup>3</sup> =	13,00 kg/m <sup>2</sup>
Red Power Block 22	0,213m x 827 kg/m <sup>3</sup> =	176,15 kg/m <sup>2</sup>
1 cm lime-cement plaster	0,01m x 1300 kg/m <sup>3</sup> =	13,00 kg/m <sup>2</sup>
<b>Total area-related mass =</b>		<b>202,15 kg/m<sup>2</sup></b>

**Total thickness = 0,233 m**

**Density of the total wall = 867,6 kg/m<sup>3</sup>**

Frequency of coincidence ( $E_{dyn} = 10 \text{ GPa}$ )  $f_c \approx$  **82 Hz**

Frequency of coincidence ( $E_{dyn} = 5 \text{ GPa}$ )  $f_c \approx$  **120 Hz**

Frequency of coincidence ( $E_{dyn} = 1 \text{ GPa}$ )  $f_c \approx$  **258 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): **49 dB**

**Type: Red Power Block 22 (Length = 397 mm)**  
**Calculation as a homogeneous component**

