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

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

Gross dry density 827 kg/m³

Calculation of area-related mass:

1 cm plaster	0,01m x 1800 kg/m³ =	18,00 kg/m²
Red Power Block 22	0,213m x 827 kg/m³ =	176,15 kg/m²
2 cm plaster	0,02m x 1800 kg/m³ =	36,00 kg/m²
	Total area-related mass =	**230,15 kg/m²**

Total thickness = 0,243 m

Density of the total wall = 947,12 kg/m³

Frequency of coincidence (E_{dyn} = 10 Gpa) $f_c \approx$ **79 Hz**

Frequency of coincidence (E_{dyn} = 5 Gpa) $f_c \approx$ **112 Hz**

Frequency of coincidence (E_{dyn} = 1 Gpa) $f_c \approx$ **249 Hz**

R_w from the equation ot the mass curve for concrete, concrete stones, limestone and brick from DIN 4109-32:2016 with m' = 230,15 kg/m² (as a homogeneous construction without web structure): **50,8 dB**