

Material and Construction Specifications

Partitioning system

INDEX

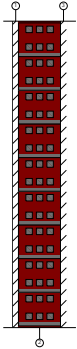
1. PARTITIONS.....	3
1.1. 14cm brick partition.....	3
2. ABBREVIATIONS USED.....	3

Material and Construction Specifications. Partitioning system

1. PARTITIONS

1.1. 14cm brick partition

14cm brick partition, composed of: 1.5cm of plaster 1000 < d < 1300; 11.0cm of clay hollow brick with nine recesses ste into three columns and two rows [100 mm<T<110 mm]; 1.5cm of plaster 1000 < d < 1300



Layers	e	r	l	RT	Cp	m
1 - Plaster 1000 < d < 1300	1.50 cm	1150.00 kg/m ³	0.428 W/(m·K)	0.04 (m ² ·K)/W	1000.00 J/(kg·K)	6
2 - Clay hollow brick with nine holes divided into three columns and two rows [100 mm<T<110 mm]	11.00 cm	920.00 kg/m ³	0.456 W/(m·K)	0.24 (m ² ·K)/W	1000.00 J/(kg·K)	10
3 - Plaster 1000 < d < 1300	1.50 cm	1150.00 kg/m ³	0.428 W/(m·K)	0.04 (m ² ·K)/W	1000.00 J/(kg·K)	6
Total thickness: 14.00 cm						

Thermal insulation

Thermal transmittance: 1.09 W/(m²·K)

Thermal capacity: 80.00 J/(m²·K)

Absorption coefficient: 0.6

Sound insulation

Global sound reduction index, Rw (C; Ctr): 40 (-1; -3) dB

Global sound reduction index, Rw, using transmission via edges: 40 dB

Fire resistance

Fire resistance: EI 90 min

ABBREVIATIONS USED

e Thickness (cm)

RT Thermal resistance ((m²·K)/W)

p Density (kg/m³)

Cp Specific heat (J/(kg·K))

λ Thermal conductivity (W/(m·K))

μ Water vapour diffusion resistance factor

Produced by a visitor for the State of NYM