

**DESCRIPTION AND INSTALLATION  
OF SUSPENDED CEILING PANELS**

**Test 1**  
**Date 04/10/11**  
**Station ALPHA**

**REQUESTER, MANUFACTURER SAINT-GOBAIN EUROCOUSTIC**

**NAME Minerval 12**

**FITNESS FOR PURPOSE Unchecked**

**CONFIGURATION Total depth of construction: 112**

**MAIN CHARACTERISTICS**

Dimensions in mm : 3000 x 3600  
 Area in m<sup>2</sup> : 10.8  
 Thickness in mm : 12  
 Mass per unit area in kg/m<sup>2</sup>: 1.25  
 Mounting type : E-110

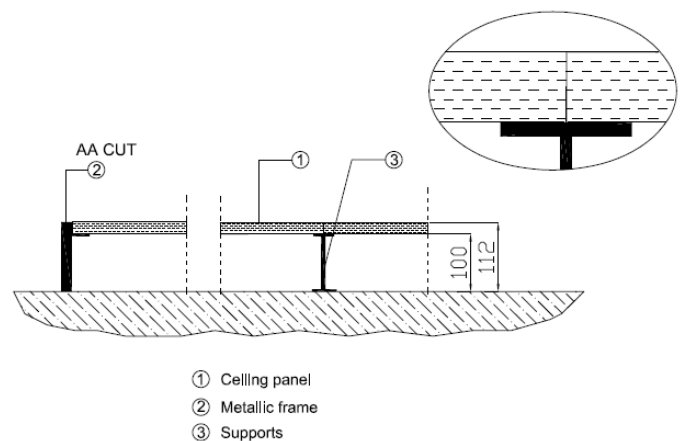
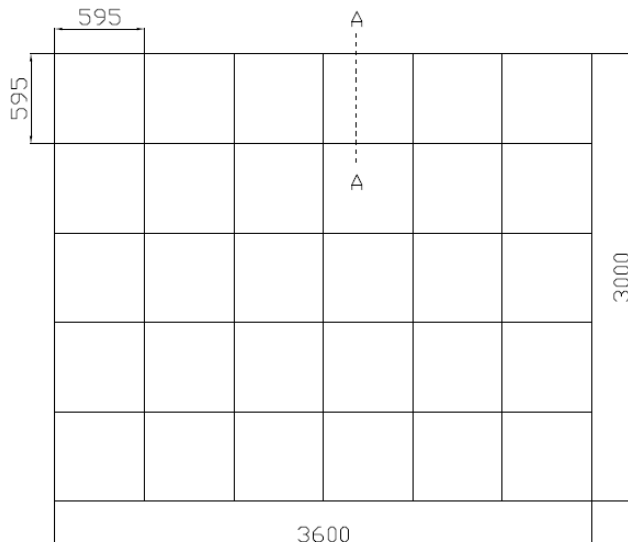
**DESCRIPTION** (Dimensions are given in mm)

Constitution	Rockwool panel of measured density 104kg/m <sup>3</sup> , with a white decorative glass foil on the visible face and a foil on the back.
Dimensions	595 x 595 x 12.
Edge	A (Right).

**INSTALLATION** (Dimensions are given in mm)

The panels are put edge to edge with the decorative face visible, on supports in order to create a pattern of 600 x 600 inside a metallic frame laid on the floor.

The whole assembly is set up to create a total depth of construction of 112.



- ① Ceiling panel
- ② Metallic frame
- ③ Supports

**SOUND ABSORPTION COEFFICIENT  $\alpha_s$   
OF SUSPENDED CEILING PANELS**

Test 1  
Date 04/10/11  
Station ALPHA

AA45

**REQUESTER, MANUFACTURER** SAINT-GOBAIN EUROCOUSTIC

**NAME** Minerval 12

**FITNESS FOR PURPOSE** Unchecked

**CONFIGURATION** Total depth of construction: 112

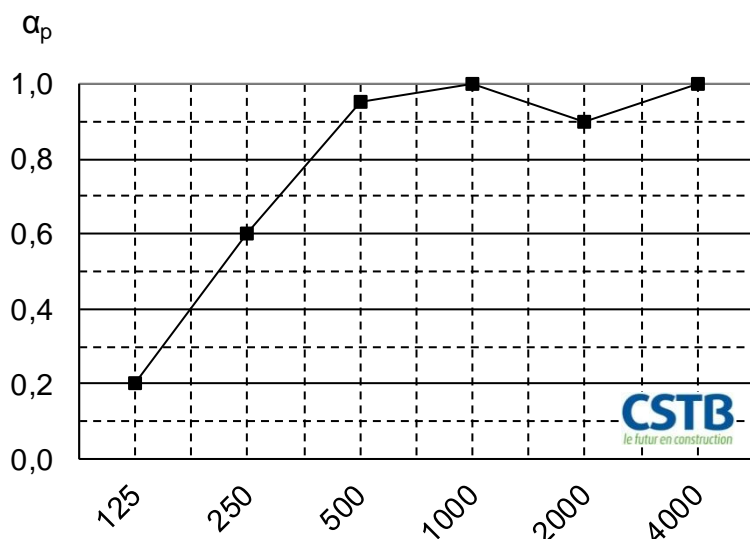
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**MEASUREMENT CONDITIONS**

**Empty room:** Temperature: 22°C  
Relative humidity: 65%  
**Room with sample:** Temperature: 22°C  
Relative humidity: 66%

**RESULTS**



f	$\alpha_s$	$\alpha_p$
100	0,11	
125	0,18	0,20
160	0,31	
200	0,42	
250	0,59	0,60
315	0,75	
400	0,85	
500	0,97	0,95
630	0,97	
800	1,05	
1000	0,99	1,00
1250	0,98	
1600	0,86	
2000	0,88	0,90
2500	0,97	
3150	1,00	
4000	1,02	1,00
5000	1,01	
Hz		

$\alpha_w = 0,9$

classement / class A

NRC = 0,85

SAA = 0,86

*It is strongly recommended to use this single number rating in combination with the complete sound absorption coefficient curve.*

**REVERBERATION TIME T**

**Date 20/06/16**  
**Station ALPHA**

**TEST N° 1**

<b>f (Hz)</b>	<b>T of the empty room (s)</b>	<b>T of the room with sample (s)</b>
100	10.34	8.01
125	10.86	7.19
160	10.41	5.62
200	9.25	4.53
250	8.57	3.66
315	9.26	3.24
400	8.42	2.90
500	8.38	2.64
630	8.08	2.62
800	7.66	2.44
1000	7.04	2.47
1250	6.66	2.43
1600	6.01	2.52
2000	5.56	2.41
2500	4.95	2.17
3150	4.17	1.97
4000	3.35	1.75
5000	2.79	1.59