

# Sound Insulation Prediction (v9.0.23)

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Margin of error is generally within  $R_w \pm 3$  dB

- Key No. 2503

Job Name:

Initials: Emma Greenwood

Job No.:

Date: 06/05/2022

File Name: Insul\_2x12.5 mm Board\_15kg\_m2.ixl



Notes:



**R<sub>w</sub> 41 dB**  
 C -1 dB  
 C<sub>tr</sub> -3 dB

Panel Size = 2.7 m x 4.0 m

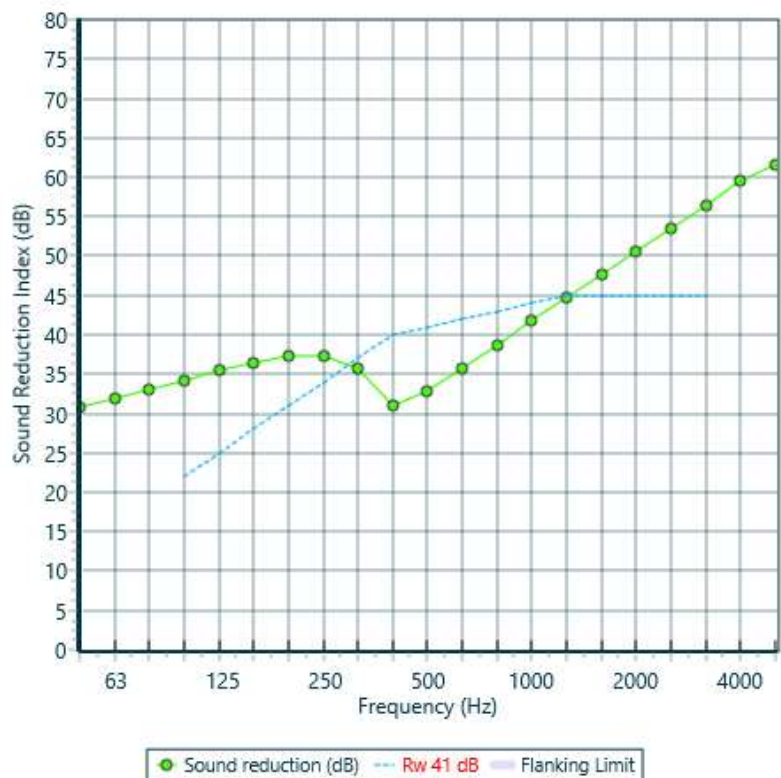
Partition surface mass = 105 kg/m<sup>2</sup>

## System description

Panel 1 : 2 x 12.5 mm Gyproc Duraline 15mm  
 + 2 x 12.5 mm Gyproc Duraline 15mm

+ 1 x 100 mm Cross Laminated Timber 100mm 5s (Stora Enso)

freq.(Hz)	R(dB)	R(dB)
50	31	
63	32	32
80	33	
100	34	
125	35	35
160	36	
200	37	
250	37	37
315	36	
400	31	
500	33	33
630	36	
800	39	
1000	42	41
1250	45	
1600	48	
2000	51	50
2500	54	
3150	56	
4000	59	59
5000	62	



● Sound reduction (dB)    - - - R<sub>w</sub> 41 dB    Flanking Limit