

# Sound Insulation Prediction (v8.0.11)

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Mohawk Industries, Inc. - Key No. 3767

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

Job Name:

Job No.:

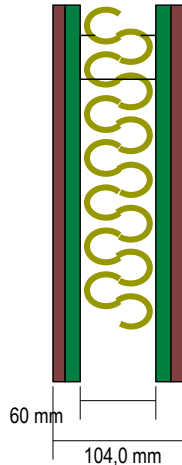
Page No.:

Notes:

Date: 24 nov 16

Initials:

File Name: Clickwall metalstud 60mm 2 sided chip 12+cliwall.ixl



$R_w$  51 dB

C -5 dB

$C_{tr}$  -13 dB

$D_{nTw}$  53 dB [V:50m3]  
[A:11m2]

## System description

Panel 1 : 1 x 10,0 mm Clickwall mdf comfort

+ 1 x 12,0 mm Durelis 15mm

Cavity: Steel stud (0.55mm): Stud spacing 600 mm , Infill Fibreglass (10kg/m<sup>3</sup>) Thickness 50 mm (p:10 kg/m<sup>3</sup>, Rf:4000 Pa.s/m<sup>2</sup>)  
 Panel 2 + 1 x 12,0 mm Durelis 15mm + 1 x 10,0 mm Clickwall mdf comfort

Mass-air-mass resonant frequency =75 Hz

Panel Size 2,7x4 m; Mass 34,5 kg/m<sup>2</sup>

frequency (Hz)	R(dB)	R(dB)
50	20	
63	19	18
80	15	
100	20	
125	27	23
160	33	
200	38	
250	43	41
315	47	
400	51	
500	54	53
630	57	
800	60	
1000	63	62
1250	64	
1600	65	
2000	66	65
2500	63	
3150	56	
4000	60	59
5000	64	

