

# 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.:

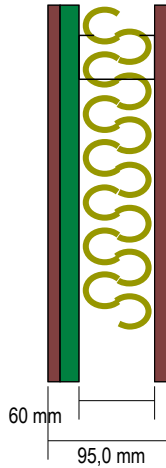
Page No.:

Notes:

Date: 24 nov 16

Initials:

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



$R_w$	45 dB	
C	-4 dB	
$C_{tr}$	-11 dB	
$D_{nTw}$	47 dB	[V:50m3] [A:11m2]

## System description

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

+ 1 x 15,0 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 10,0 mm Clickwall mdf comfort (p:838 kg/m<sup>3</sup>,E:3,3GPa,η:0,02, ps:8,38 kg/m<sup>2</sup>, fc:3269 Hz)

Mass-air-mass resonant frequency =91 Hz

Panel Size 2,7x4 m; Mass 28,1 kg/m<sup>2</sup>

frequency (Hz)	R(dB)	R(dB)
50	19	
63	19	19
80	19	
100	15	
125	21	19
160	27	
200	32	
250	37	36
315	42	
400	46	
500	50	49
630	53	
800	56	
1000	60	59
1250	62	
1600	63	
2000	63	61
2500	59	
3150	59	
4000	59	60
5000	63	

