Hilti North America
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Sound insulation performance of Hilti CP 617 Putty Pad

The sound insulation performance of Hilti CP 617 Putty Pad has been tested according to EN ISO 717-1 and interpreted according to ASTM E90. The following data is referenced by Rosenheim Test Report 20-001229-PR01.
Five (5) different installation variants were tested, where the outlet boxes are installed, tested for their STC performance and then sealed with CP 617 Putty Pads to measure the sound insulation of the putty pad.

The results can be summarized in the following chart and further explained below:

Test Variant	Test Variant	Box Protection	Tested STC Value
1	Drywall unit without electrical boxes - "baseline"	None	65
2	Install of 1 electrical box into 1 side of the assembly	None	63
3	Install of 1 electrical box each side of the assembly	None	41
4	Install of 1 electrical box into 1 side of the assembly	CP 617 Putty Pad	64
5	Install of 1 electrical box each side of the assembly	CP 617 on 1 box & other side left "unprotected"	53
6	Install of 1 electrical box each side of the assembly	CP 617 on each box	64

Variant 1: Drywall unit without electrical boxes:
The result of this configuration is considered the “baseline” of the assembly & equivalent to: **STC 65**

Variant 2: One outlet box installed on one side of the wall - into the sending room, and left “un-sealed”:

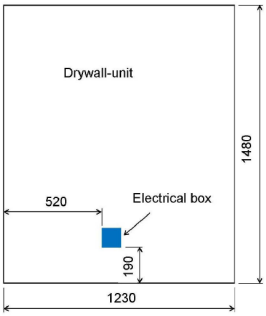

Fig. 5 Variants 2 and 3: Electrical box 1 in drywall-unit (from sending room)

The result of this configuration was: **STC 63**

Variant 3: One outlet box installed on each side of the wall (sending & receiving), and left

“unsealed”:

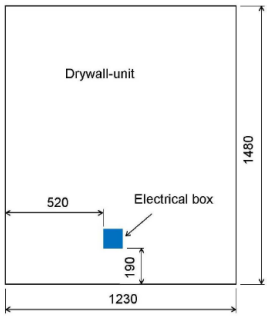

Fig. 5 Variants 2 and 3: Electrical box 1 in drywall-unit (from sending room)

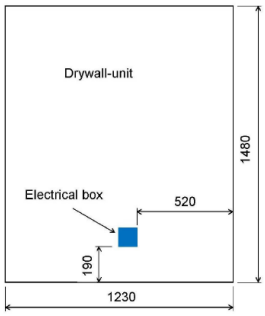

Fig. 6 Variants 3 and 5: Electrical box 2 in drywall-unit (from receiving room)

The result of this configuration was: **STC 41**

Variant 4: One outlet box installed on one side of the wall - into the sending room, sealed with CP

617 Putty Pad:

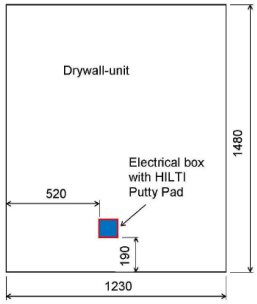

Fig. 7 Variants 4, 5 and 6: Electrical box 1 in drywall-unit (from sending room)

The result of this configuration was **STC 60**

Variant 5: One outlet box installed on each side of the wall (sending & receiving), and sealed on one side with CP 617 Putty Pads:

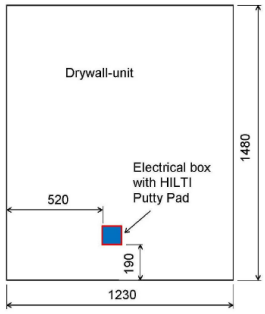

Fig. 7 Variants 4, 5 and 6: Electrical box 1 in drywall-unit (from sending room)

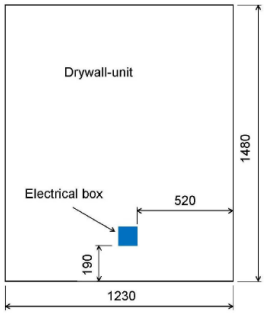

Fig. 6 Variants 3 and 5: Electrical box 2 in drywall-unit (from receiving room)

The result of this configuration was **STC 53**

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Variant 6: One outlet box installed on each side of the wall (sending & receiving), and sealed with CP 617 Putty Pads on both sides:

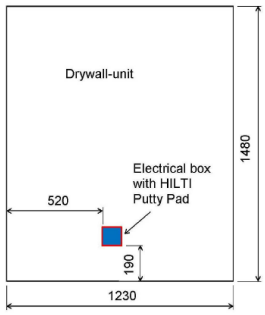

Fig. 7 Variants 4, 5 and 6: Electrical box 1 in drywall-unit (from sending room)

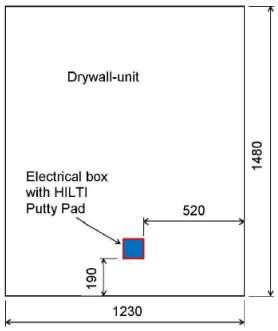

Fig. 8 Variant 6: Electrical box 2 in drywall-unit (from receiving room)

The result of this configuration was **STC 64**

Best regards,

Joshua Close

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Marketing | Product Manager – Fire Protection

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