



Hilti North America
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Sound insulation performance of Hilti CFS-CID MD

The sound insulation performance of Hilti CFS-CID MD was performed in accordance with ASTM E 90-09 (2016), *Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions* and ASTM E2235-04 (2012), *Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods*.

Six (6) different installation variants were tested, where 7-inch concrete slab was poured on top of 18-gauge metal decking with 3-inch flutes. Then a CFS-CID MD and CFS-CID PLT were installed with various penetrants to measure the sound insulation.

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

Test #	SLAB CONFIGURATION	Penetrant	Tested STC Value
TL20-494	7" Concrete over metal deck - "baseline"	None	51
TL20-500	7" Concrete over metal deck, 1-hour gypsum board enclosure, 2" CFS-CD MD & CFS-CID PLT W3	2" Cast Iron Pipe	50
TL20-499	7" Concrete over metal deck, 1-hour gypsum board enclosure, 2" CFS-CD MD & CFS-CID PLT W3	2" PVC Pipe	50
TL20-504	7" Concrete over metal deck, 1-hour gypsum board enclosure, 2" CFS-CD MD & CFS-CID PLT W3	None	51
TL20-514	7" Concrete over metal deck, 1-hour gypsum board enclosure, 4" CFS-CD MD & CFS-CID PLT W3	4" Cast Iron Pipe	51
TL20-512	7" Concrete over metal deck, 1-hour gypsum board enclosure, 4" CFS-CD MD & CFS-CID PLT W3	4" PVC Pipe	51
TL20-516	7" Concrete over metal deck, 1-hour gypsum board enclosure, 4" CFS-CD MD & CFS-CID PLT W3	None	51

Best Regard,

James Barton
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