



July 11, 2017

**Subject: Substitution of Hilti X-CC Ceiling Clip and X-CW Ceiling Wire Assemblies with X-CX Ceiling Clip Assembly**

To Whom It May Concern:

A comparison between the X-CW ceiling wire, X-CC ceiling clip assemblies and the new X-CX ceiling clip assembly can be found in the table below.

<b>Assembly</b>	X-CW	X-CC	X-CX
<b>Fastener</b>	X-C or X-U	X-AL-H, X-C or X-U	X-AL-H
<b>Clip</b>	N/A	Steel Angle	Steel Angle
<b>Wire</b>	12 Ga. Class 1 or INT	12 Ga. Class 1	12 Ga. Class 1

Hilti X-CX ceiling clip assembly utilizes an X-AL-H fastener which has a long conical tip design, which better ensures optimal tension loads and stick rate. Therefore, the X-CX ceiling clip can be used as substitution for either the X-CW ceiling wire or the X-CC ceiling clip assemblies.

The allowable loads of these assemblies in different base materials can be found in Hilti ICC-ES approval report ESR-2184 from Table 2 to Table 4, respectively.

I hope this addresses your needs. Please feel free to contact me if you have any further questions.

Regards,

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