

Fire, Smoke, & Sound Verify & Comply Authorize Submittal

Product & Dynamic Joint Deflection Design/Specification

(Fill in Shaded Areas)

<i>Product/System Manufacturer Info or Third-Party Cert.</i>			<i>Project Design - Specifications</i>		
<i>Product:</i> Hilti CP506 Acoustic		<i>Cert</i>	Project:		<i>Spec</i>
<i>Movement Capability %</i>	<i>MC%</i>	.125%	<i>Total Overall Deflection – E.O.R:</i> (Compression + Extension)	<i>DEF</i>	.75”
<i>Architectural Design Gap</i>	<i>ADG</i>	.50”	<i>Install Gap Required (multi-story):</i> (DEF ÷ MC% ÷ 2)	<i>IGR</i>	3.00”
<i>Shrinkage Rating</i>	<i>SR</i>	25%	<i>Install to Accommodate Shrinkage:</i> (IGR ÷ SR)	<i>ASR</i>	12.00”
<i>Project Zone Rating (I, II, III)</i>	<i>PZR</i>	NA	<i>Product Movement Cert. (I, II, III)</i>	<i>PMC</i>	III

If **ADG is > IGR** – Review Specification & Drawing Details

If **PZR < PMC** – Review Specification & Drawing Details


Install Authorization Outside Limitations/Certification (IGR): **Install Gap = 3.00”**

	<i>Company</i>	<i>Signature/Authorization</i>	<i>Print</i>	<i>Date</i>
<i>Architect</i>				
<i>Acoustic Engineer</i>				
<i>General Contractor</i>				
<i>Joint Seal Installer</i>				
<i>Code Official</i>				

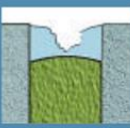
Install Outside Limitations, Performance, Slotted Track “Pass Through” Considerations:

Typical Modes of Joint Failure


Know and avoid the pitfalls by careful **PLANNING, PREPARATION, and APPLICATION!**



Adhesive Failure
Problem: Sealant pulls away from substrate.
Solution: Improve bond by cleaning all contact areas.



Cohesive Failure
Problem: Sealant tears when extended.
Solution: Choose a more flexible joint design.




Substrate Failure
Problem: Contact surfaces fail due to stress applied by sealant.
Solution: Repair substrate and/or choose a more flexible joint design.


Beware of Three Sided Adhesion

Bond breaker tapes, foam backer rods, even mineral wool used properly can prevent cohesive failures!

WRONG!




Sealant bonds to the deflection track. The wall may become load bearing.




Flexing the joint either tears the sealant when extended or damages the substrate when compressed.

RIGHT!



Bond breaker prevents adhesion to the track.



Sealant stretches freely as the joint is flexed.

*NA – Not Publicly Available