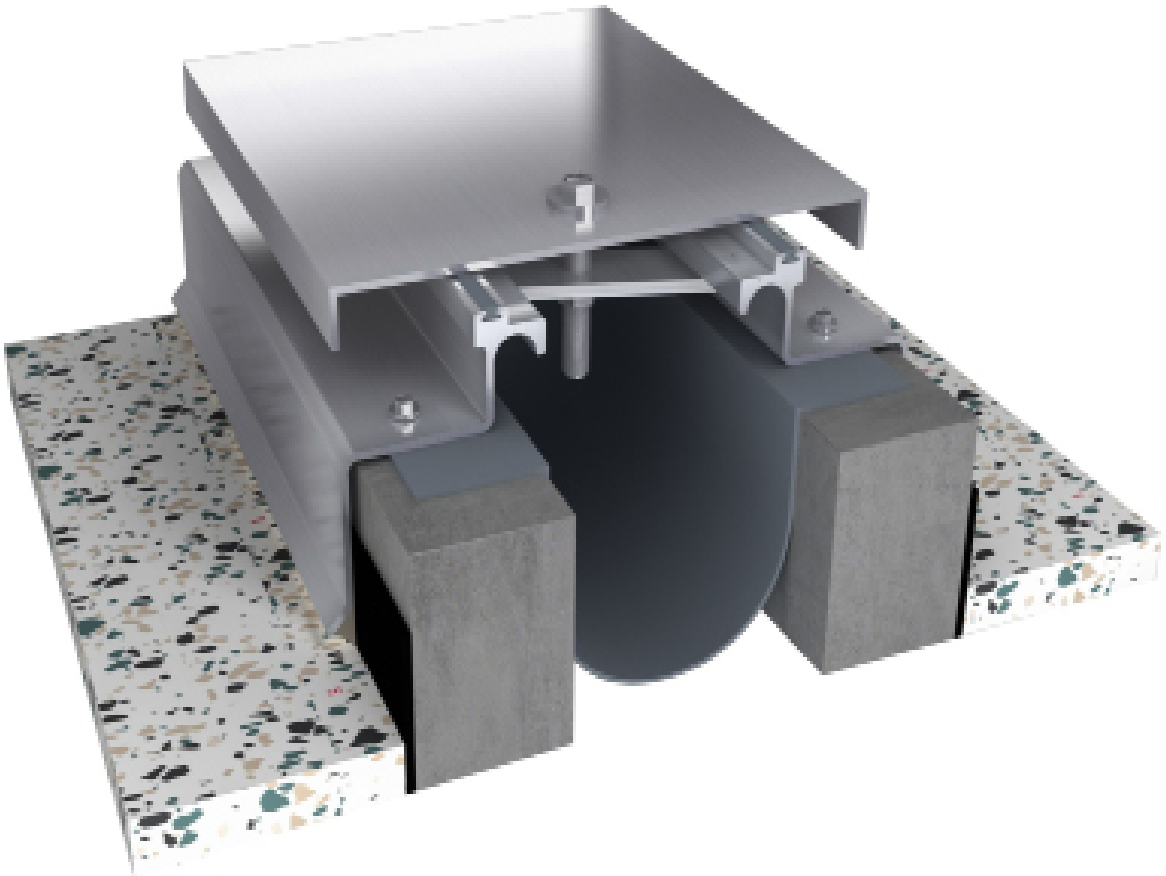
Chem®
Building Solutions

i120® Submittal



Roof to Roof
Roof to Wall

Roof Expansion Joint System

i120®

Chem® Building Solutions

Product Guide

Thermal | Vapor Barrier Option | Fire Rated Option | seismic

Description

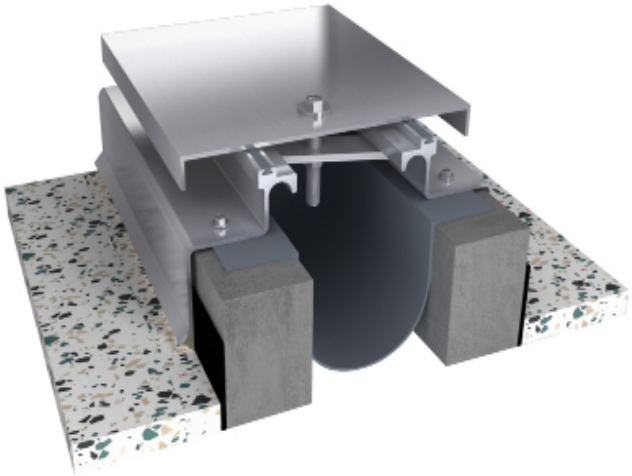
The **i120** roof expansion joint system accomodates multi-directional seismic movement and is installed with a 2x up stand mount.

Key Features

- ***Install Condition:*** Roof/Roof, Roof/Wall .
- ***Joint width:*** 50-250mm.
- Optional fire rated.
- Seamlessly integrates with coordinating Wall system.
- Applicable for existing conditions, additions and new construction .
- Mill finish aluminum.

Materlals

Aluminum: Alloy types of 6061-T6, 6063-T6, 6005A, or 5052-H32 sheet goods.



Application Instructions

Installaion: Joint systems: Install in accordance with manufacturer's instructions.

Align work plumb, level and flush with adjacent surfaces. Mechanically anchor to substrate. Allowances should be made where actual structural gap at time of installation varies from nominal design gap. No shimming of frames is permitted. Coordinate with work of other Sections.

If concrete blockouts (rebates) are required, ensure continuous support equal to surrounding substrate structural values.

Fire Rated Assemblies: Where required, install to manufacturer's instructions.

Moisture Barrier: Where required, install to manufacturer's instructions.

Roof Expansion Joint System

i120®

Protect: the completed Expansion Control system work from damage during construction. Damage protection includes surface abrasion and overloading of coverplate by materials handling equipment and construction waste/debris. Protection from environmental factors required throughout installation process until Project Closeout. Protection includes but is not limited to rain events, moisture protection, exposure to temperature fluctuations or direct sunlight for temperature sensitive product offerings.

Store

Store components in original containers in a clean, dry location. Ensure temperature or moisture sensitive components are stored in a tempered location.

Contractor to provide temporary protective covers on all installed finished surfaces. Protection is required to guard against both surface abrasions as well as overloading of horizontal deck components by construction traffic .

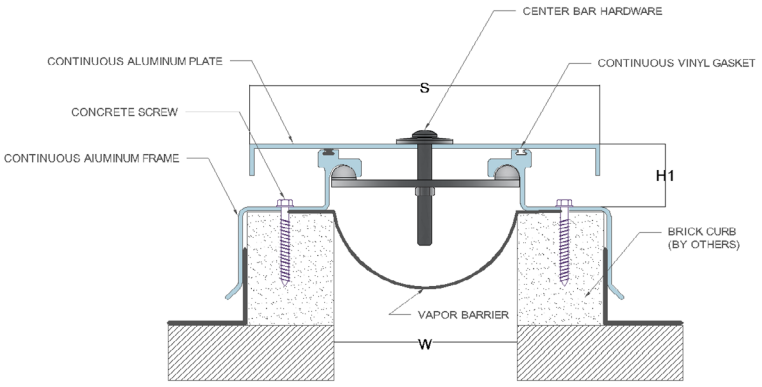
Movement ± 50%

Application	System	W	H1	H2	S	Movement +/-		L
		Joint Width	Frame Height 1	Height 2	Sightline	Horizontal	Vertical	Load
		mm	mm	mm	mm	mm	mm	Kn
Roof to Roof	i120-50	50	32	*	130	25	25	30
	i120-75	75	32	*	160	38	38	30
	i120-100	100	32	*	185	50	50	30
	i120-150	150	32	*	265	75	75	30
	i120-200	200	32	*	345	100	100	30
	i120-250	250	32	*	420	125	125	30
Roof to Wall	i120-C-50	50	32	*	95	25	25	30
	i120-C-75	75	32	*	125	38	38	30
	i120-C-100	100	32	*	165	50	50	30
	i120-C-150	150	32	*	240	75	75	30
	i120-C-200	200	32	*	320	100	100	30
	i120-C-250	250	32	*	395	125	125	30

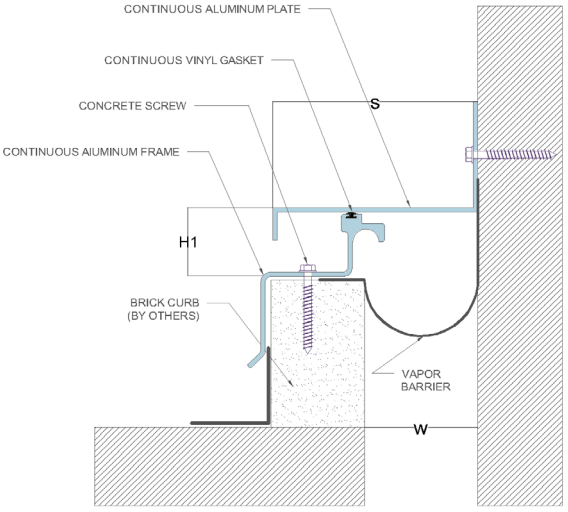
Roof Expansion Joint System

i120®

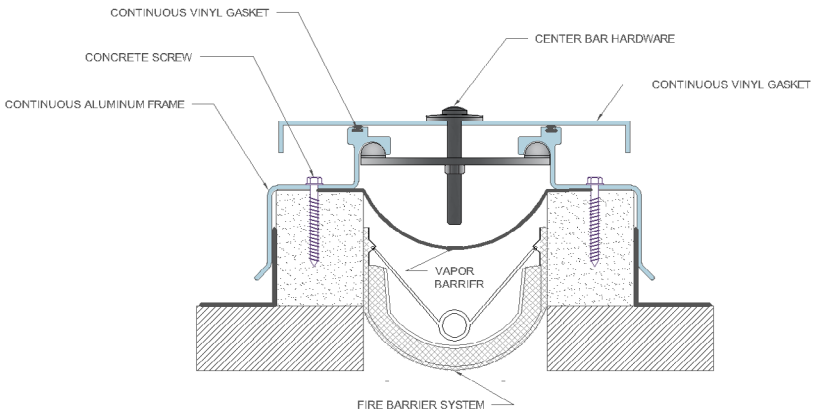
Series **i120** - Roof to Roof



Series **i120** C - Roof to Wall



Series **i120**- FireStop S30 Options



Our Previous Submittals & Approvals

LMD° | SABBOUR | LMS CONSTRUCTION | 360 Project | HILL International

MATERIAL SUBMITTAL FORM – (MAR)

Contract No: PEG - 1156 | Package No.: CP01

TO: Eng. Mohamed Shehata, Project Manager, Hill International

FROM: ENG. Mohamed sherif, Project manager LMS Construction

TITLE: Expansion Joints (STC)

SUBMITTAL NO.: PEG-1156-CP01-CN-LS-MAR-0354

REVISION NO.: Rev. 00

SUBMISSION DATE: 26/02/2024

C/REF.:

MATERIAL SUBMISSION DESCRIPTION

Discipline: Architecture

Description of Material: Construction Joints

Manufacturer (Name & Address): STC

Specification:

Supplier / Local Agent: STC

BOQ Ref:

Description of Attachments:

- Area of application
- Technical data sheet i320-50(Floor to Floor)
- Technical data sheet for i840-50(Floor to Floor) Heavy duty
- Technical data sheet for i870-50(Wall to Wall) Interior & Exterior
- Technical data sheet for i320-C-50(Floor to Wall)
- Technical data sheet for i120-C-50(Roof to wall)
- Technical data sheet for fire sealant
- Technical data sheet for backing rod.
- Technical data sheet for non-fire sealant
- Technical data sheet for vapor barrier
- Previous approvals for I chem profiles

Description of Samples: N\A

Specification Comparison Sheet:

Comparison in case of Alternative Submittal:

Prepared by: Ramiz Mikhael, Designation: Department, Signed by Sender

Mohamed sherif, Project manager, Signed by Sender

Hill Receive: Hill International 26 FEB 2024 RECEIVED 360 PROJECT

Consultant Receive:

Returned From Consultant: Hill International 04 MAR 2024 RECEIVED 360 PROJECT

Contractor Receive:

ument Control & Archiving Procedures

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Doc./Form No: PEG-1156-PP-02-06-FM Rev

Revision Date: febrewary-20

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