



Expanding Your Solutions

# Head of Wall Systems

CST and SLP-TRK® Brand Slotted Track | FAS Track® 1000  
DDA® (Deflection Drift Angle®) | HOTROD Type-X | TAB Track

# Table of Contents

CEMCO's Head of Wall Systems .....	1
ASTM/Standards Declaration .....	2
Patents and Intellectual Property Rights .....	3

## Overview | Standard HOW Products

CEMCO Slotted Track "CST" and "SLP-TRK®" Brand Slotted Tracks .....	4–7
Exterior Slotted Track .....	8

## Overview | FAS Track HOW Products

FAS Track 1000 .....	9–11
FAS Track 1000 DL   FAS Track BT 1000 .....	12
FAS J-Track Shaft Wall .....	13
Deflection Drift Angle (DDA) .....	14
Deflection Drift Angle-1 (DDA-1) .....	15
FAS Strap .....	16

## Overview | FAS Specialty Products

TAB and TAB FAS Track .....	17
FAS 093X Fire Rated Control Joint .....	18
FAS 093X-V Fire Rated Control Joint – Vinyl .....	19
FAS RBR (Rated Base Reveal) .....	20
FAS Vertical Drift Joint .....	21
HOTROD Type-X .....	22

## Typical Details

HOTROD Type-X .....	23
FAS Track 1000 Details .....	24–26
FAS J-Track: Shaft Wall Details .....	27–28
DDA Details: Assemblies with 2" Overall Movement .....	29–30
DDA-1 Details: Fluted Pan Deck Applications for 1" Overall Movement .....	31–33
FAS Strap .....	34
Miscellaneous Details: Rated Base Reveal, Vertical Drift Joint .....	35

# CEMCO's Head of Wall Systems

## Slotted Track

CEMCO's CST Brand slotted track and Sliptrack System's "SLP-TRK®" brand slotted track are evaluated and approved for use by ICC in report ESR-2012.

CEMCO's CST and Brady's SLP-TRK® branded slotted track are available to the construction industry so that dealers will be able to satisfy the high demand for products by architects, contractors, and engineers. Both systems are proven solutions for seismic head-of-wall requirements all over the United States and abroad. Each product line will have full sales and technical support through CEMCO's Technical Services Department.

This co-branding agreement calls for each piece of slotted track you receive to be labeled with both ICC-ESR numbers which simplifies the purchasing, inventorying, sales and distribution for the wholesaler and end user. Full traceability is guaranteed by the ink-jetting of material tracking information commonly required by on-site inspectors, architects, and engineers. CEMCO's Head of Wall (HOW) products provide for easy installation to meet seismic and fire rated requirements in your commercial, institutional, hospital, and educational project.

## FAS® Track 1000 and DDA® Fire Rated Head of Wall Solutions

The contractors and architects have spoken and CEMCO has responded by introducing the latest iteration of the FAS Track product line "**FAS Track® 1000.**" **FAS Track 1000** is the most efficient way to provide superior fire, smoke and sound protection within a composite deflection track according to UL-2079 without the use of fire caulking. FAS Track requires NO fire sealant or fire spray when used on solid concrete construction or fluted pan decking for 1 and 2 hour fire rated walls.

With FAS Track 1000 you are guaranteed that once installed the intumescent tape will not wear off, tear off, or fall off, making it the most reliable intumescent track on the market. On fluted deck applications mineral wool can be replaced with spray applied fireproofing. This assembly will not require any additional fire spray or caulking.

## DDA®

US Patent #8,595,999 B1 (Deflection Drift Angle®) is a composite steel angle with intumescent tape factory applied to the inside leg of the steel angle. The DDA is a fire-rated accessory that when combined with slotted or deep leg track will offer 2" unencumbered movement at the end of the head-of-wall joint in accordance with UL-2079 "Test for Fire Resistance of Building Joint Systems." The 2-1/2" outside leg marked for proper identification. The section is fabricated from minimum 0.018-inch thick hot-dipped red galvanized steel complying with ASTM A653 having minimum G-40 coating.

## Standard HOW Products

- CEMCO Slotted Track "CST" & "SLP-TRK®" Brand Slotted Tracks
- Exterior Slotted Track

## FAS Track HOW Products

- FAS Track 1000
- FAS Track 1000 DL
- FAS Track BT 1000
- FAS J-Track Shaft Wall
- Deflection Drift Angle (DDA)
- Deflection Drift Angle-1 (DDA-1)
- FAS Strap

## FAS Specialty Products

- TAB and TAB FAS Track
- FAS 093X Fire Rated Control Joint
- FAS 093X-V Fire Rated Control Joint – Vinyl
- FAS RBR (Rated Base Reveal)
- FAS Vertical Drift Joint
- HOTROD Type-X

# ASTM/Standards Declaration

## Steel Thickness

Mil Thickness	Design Thickness (in.) <sup>1</sup>	Minimum Thickness (in.) <sup>1,2</sup>
18	0.0188 (.48 mm)	0.0179 (.45 mm)
33	0.0346 (.88 mm)	0.0329 (.84 mm)
43	0.0451 (1.15 mm)	0.0428 (1.09 mm)
54	0.0566 (1.44 mm)	0.0538 (1.37 mm)
68	0.0713 (1.81 mm)	0.0677 (1.72 mm)

1) Uncoated Steel Thickness. Thickness is for carbon sheet steel.

2) Minimum thickness represents 95% of the design thickness and is the minimum acceptable thickness with 2004 AISI supplement.

## Color Code (painted on ends)

- 18 mil: None
- 33 mil: White
- 43 mil: Yellow
- 54 mil: Green
- 68 Mil: Orange

## ASTM & Code Standards

- ASTM A653/653M, A924/924M, A1003/1003M, C645 and C754.
- ICC-ESR ER-2012 (CEMCO CST, FAS Track 1000, FAS J-Track, SLP-TRK® Brand Slotted Track).
- 2012/2015 IBC
- 2010/2013 CBC
- ASTM E 1966: Standard Test Method of Fire Tests of Firestop Systems.
- UL 2079 Tests For Fire Resistance of Building Joints.
- ASTM E-119 Standard Test Methods for Fire Tests of Building Construction and Material.
- Sound Tested in accordance with ASTM E90-09.
- Air leakage tests conducted for compliance with Section 713.6 of IBC and CBC.

## LEED v3 for Building & Design Construction

- MR Credit 2: Construction Waste Management.
- MR Credit 4: Recycled Content.

## LEED v4 for Building & Design Construction

- MR Prerequisite: Construction and Demolition Waste Management Planning.
- MR Credit: Construction and Demolition Waste Management.
- MR Credit: Building Product Disclosure and Optimization – Sourcing of Raw Materials, Option 2.
- MR Credit: Building Product Disclosure and Optimization – Material Ingredients, Option 1.
- MR Credit: Building Life-Cycle Impact Reduction, Option 4.

## Recycled Content

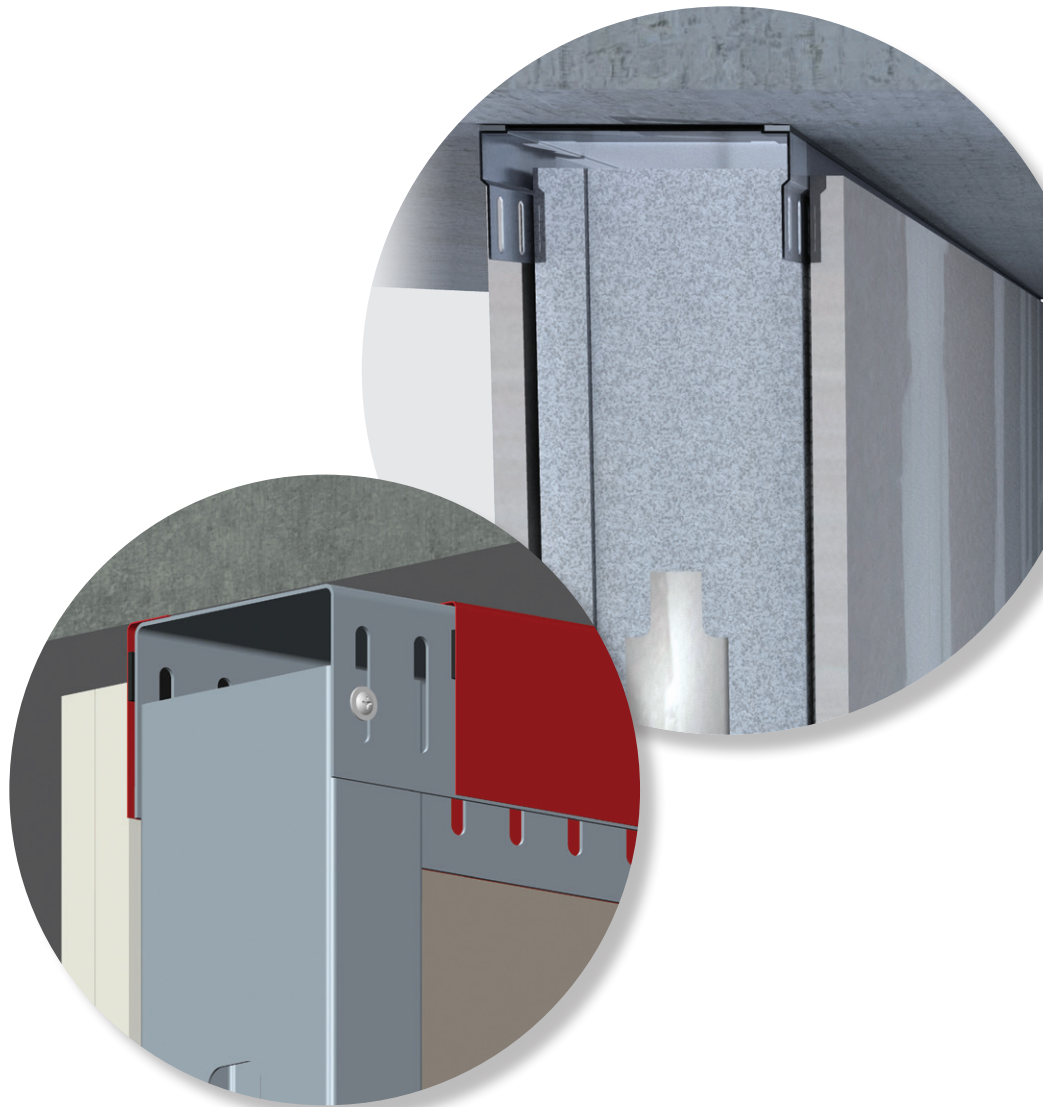
- Total Recycled Content: 36.9%
- Post-Consumer: 19.8%
- Pre-Consumer: 14.4%



## Patents and Intellectual Property Rights

FAS Track 1000 and DDA products, or installations incorporating these products, may be covered by one or more of U.S. Patent #'s.

- 7,617,643
- 8,322,094
- 8,595,999
- 8,640,415
- 8,671,632
- 8,793,947
- 9,045,899
- 9,085,895



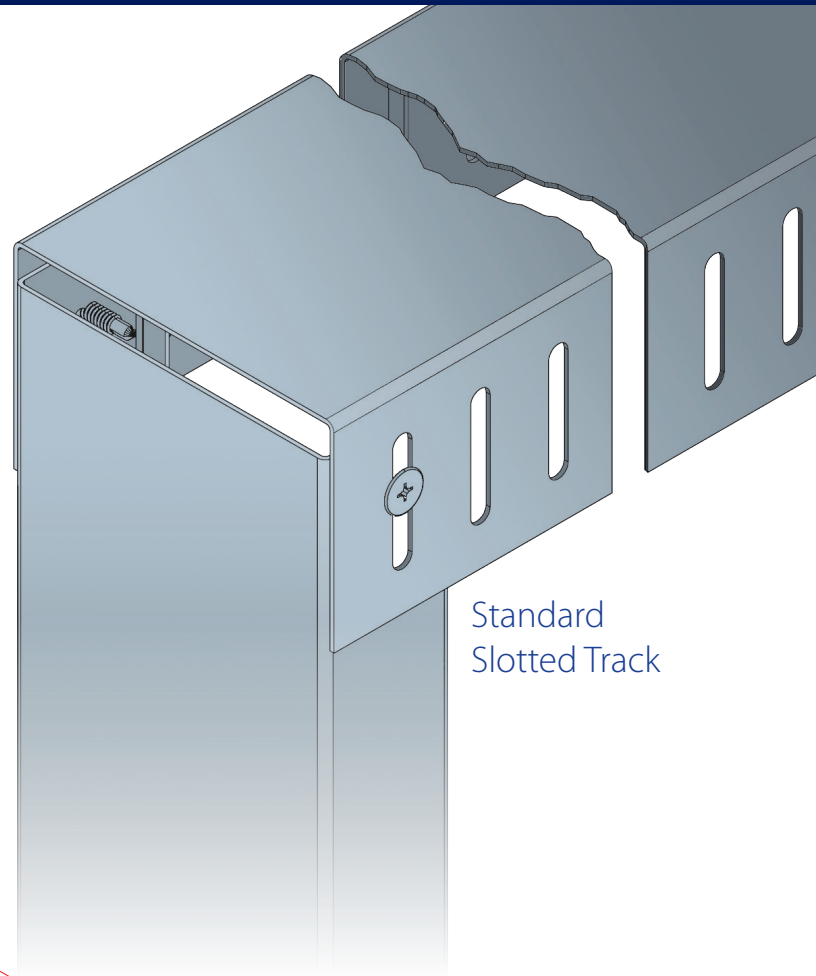
## "CST" and "SLP-TRK®" Brand Slotted Tracks

"CST" and "SLP-TRK" brand slotted slip tracks are fabricated in following web depths and thicknesses. All CEMCO CST brand and Brady SLP-TRK® brand slotted slip tracks are produced from G40 coated steel for 18 and 33 mil products. All others are manufactured with G60 coating. G90 is available upon request.

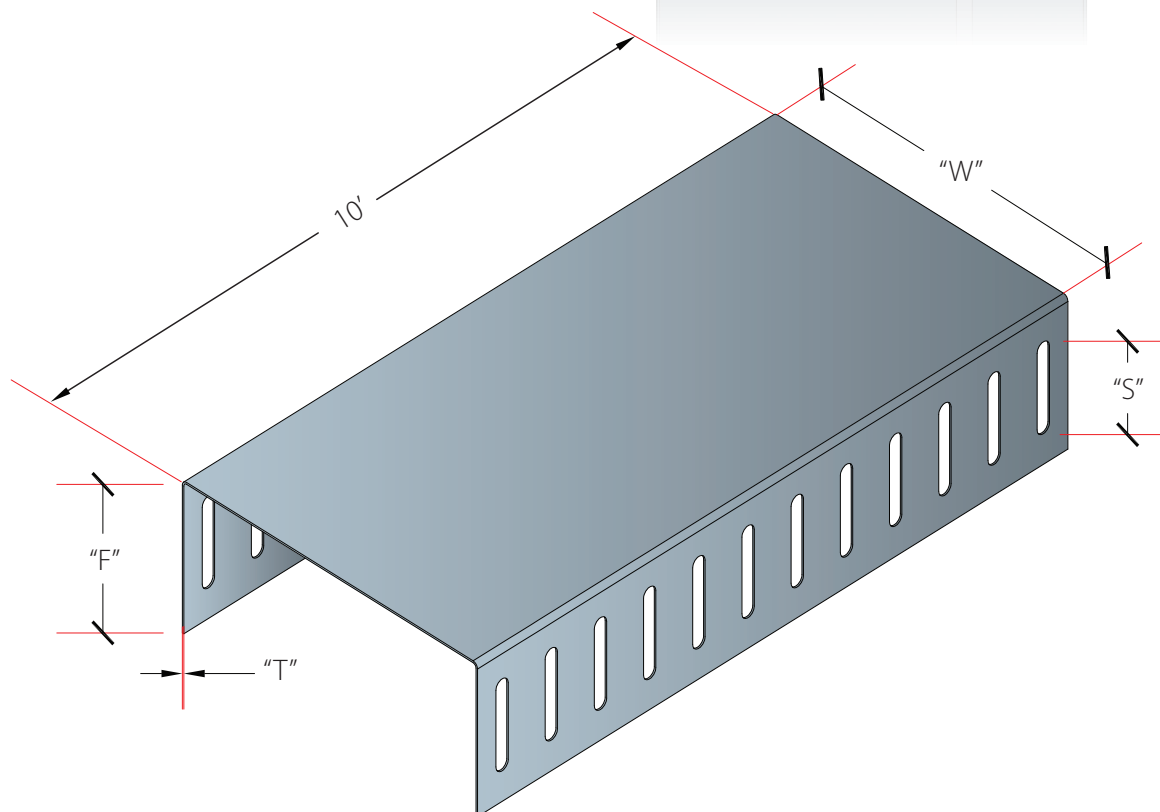
### CEMCO Slotted Track Configurations

"W" Web Size (in)	"F" Flange Size (in)	"S" Slot Length (in)	"T" Steel Thickness (mil)
2½, 3⅞, 4, 6, 8	2½	1½	18, 33, 43, 54, 68
2½, 3⅞, 4, 6, 8	3	2	54, 68
3⅞, 4, 6, 8	3¼	2*	54, 68

\*Slots are 1" down from top of track



Standard  
Slotted Track





CEMCO CST/SLP-TRK SLOTTED TRACK ALLOWABLE LOADS AND HEIGHTS (1-1/2" SLOTS)										
Model No.	Design Thickness (in.)	Minimum Thickness (in.)	Yield (KSI)	Coating	Web Sizes (in.)	Gap (in.)	Stud Spacing (in.)	Lateral Load (PSF)	Max Load (LB)	Max Height
18 mil	0.0188	0.0179	33	G40	2-1/2, 3-1/2, 3-5/8, 4, 6, 8	5/8"	12	5	80	28' 10"
								7.5		19' 2"
								10		14' 5"
							16	5		21' 8"
								7.5		14' 5"
								10		10' 10"
							24	5		14' 5"
								7.5		9' 7"
								10		7' 2"
33 mil	0.0346	0.0329	33	G60	2-1/2, 3-1/2, 3-5/8, 4, 6, 8	5/8"	12	5	150	58'
								7.5		38' 8"
								10		29'
							16	5		43' 7"
								7.5		29' 1"
								10		21' 10"
							24	5		29'
								7.5		19' 4"
								10		14' 6"
43 mil	0.0451	0.0428	33	G60	2-1/2, 3-1/2, 3-5/8, 4, 6, 8	5/8"	12	5	220	85' 2"
								7.5		56' 10"
								10		42' 7"
							16	5		64' 1"
								7.5		42' 8"
								10		32' 0"
							24	5		42' 7"
								7.5		28' 5"
								10		21' 4"
54 mil	0.0566	0.0538	50	G60	2-1/2, 3-1/2, 3-5/8, 4, 6, 8	5/8"	12	5	355	140'
								7.5		93' 4"
								10		70'
							16	5		105' 3"
								7.5		70' 2"
								10		52' 8"
							24	5		70'
								7.5		46' 8"
								10		35'
68 mil	0.0713	0.0677	50	G60	3-5/8, 4, 6, 8	5/8"	12	5	380	150'
								7.5		100'
								10		75'
							16	5		112' 9"
								7.5		75' 2"
								10		56' 5"
							24	5		75'
								7.5		50'
								10		37' 6"

NOTE: MAXIMUM LOADS ARE BASED ON AVERAGE TEST RESULTS

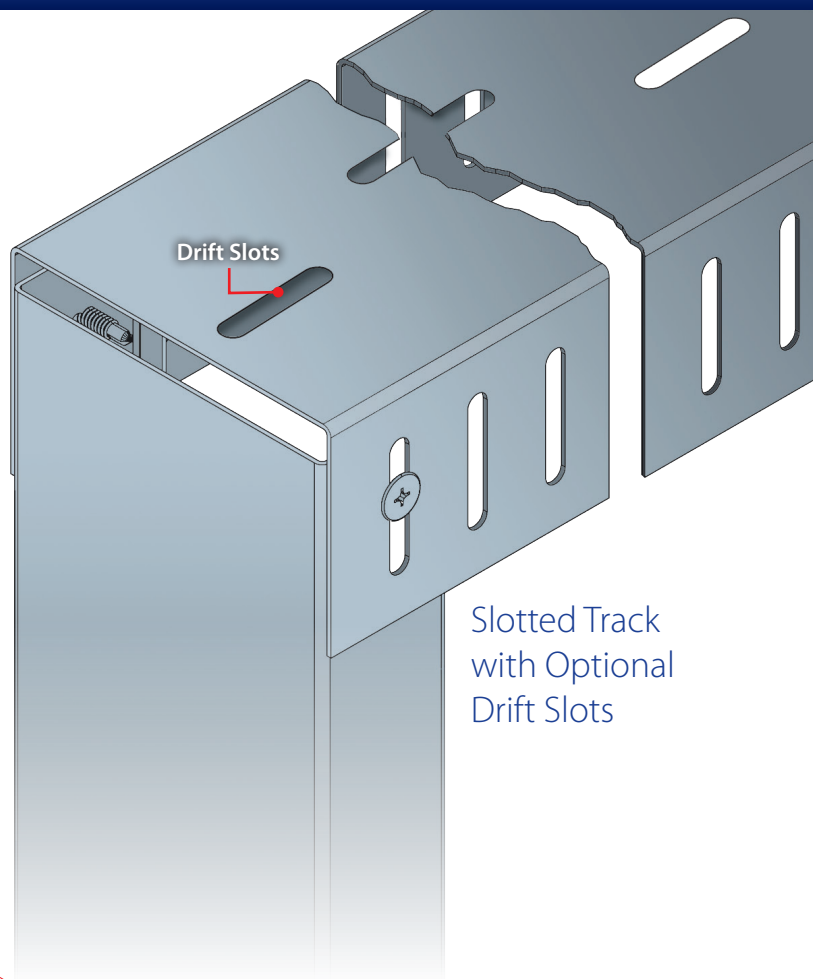
# "CST" and "SLP-TRK®" Brand Slotted Tracks with Optional Drift Slots

"CST" and "SLP-TRK" brand slotted slip tracks are fabricated in following web depths and thicknesses. All CEMCO CST brand and Brady SLP-TRK® brand slotted slip tracks are produced from G40 coated steel for 18 and 33 mil products. All others are manufactured with G60 coating. G90 is available upon request.

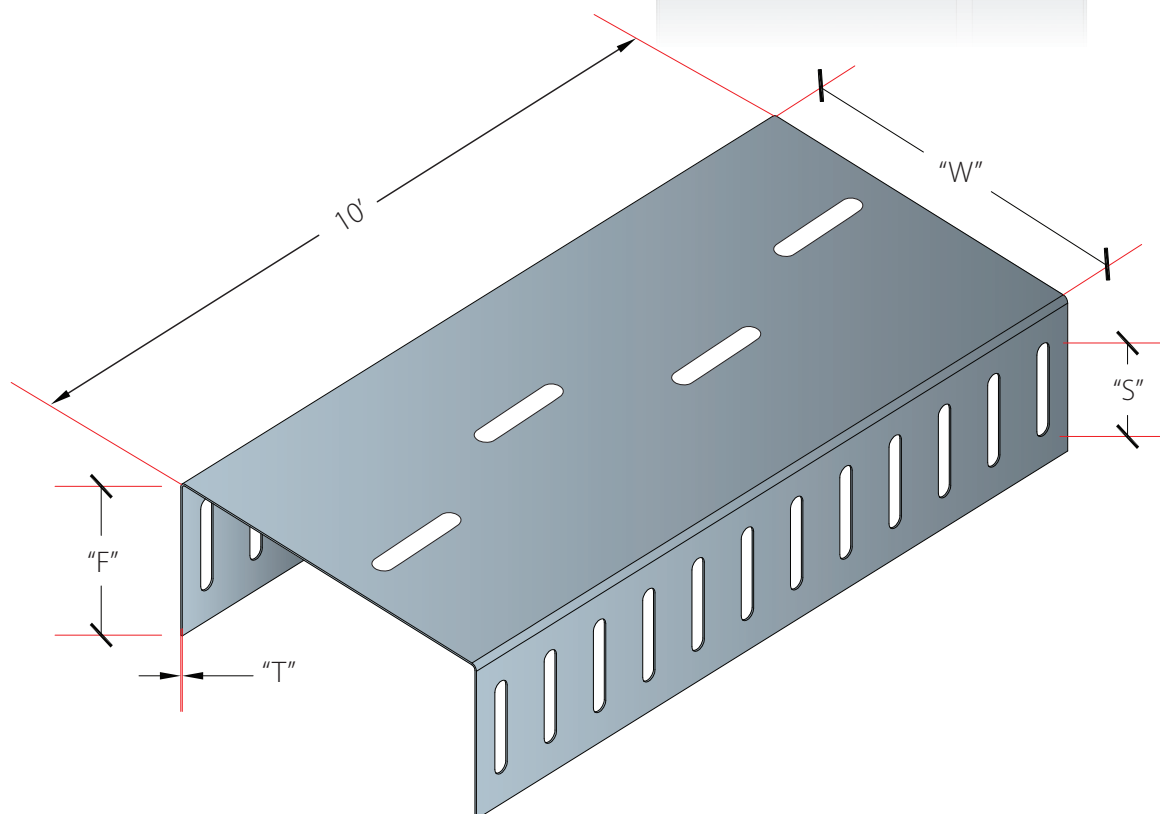
## CEMCO Slotted Track Configurations

"W" Web Size (in)	"F" Flange Size (in)	"S" Slot Length (in)	"T" Steel Thickness (mil)
2½, 3⅝, 4, 6, 8	2½	1½	18, 33, 43, 54, 68
2½, 3⅝, 4, 6, 8	3	2	54, 68
3⅝, 4, 6, 8	3¼	2*	54, 68

\*Slots are 1" down from top of track



Slotted Track  
with Optional  
Drift Slots





CEMCO CST SLOTTED TRACK (WITH DRIFT SLOTS) ALLOWABLE LOADS AND HEIGHTS (1-1/2" FLANGE SLOTS & 2-1/2" WEB SLOTS)										
Model No.	Design Thickness (in.)	Minimum Thickness (in.)	Yield (KSI)	Coating	Web Sizes (in.)	Gap (in.)	Stud Spacing (in.)	Lateral Load (PSF)	Max Load (LB)	Max Height
33 mil	0.0346	0.0329	33	G60	2-1/2, 3-1/2, 3-5/8, 4, 6, 8	5/8"	12	5	140	52'
								7.5		34' 8"
								10		26'
							16	5		39' 1"
								7.5		26' 1"
								10		19' 7"
							24	5		26'
								7.5		17' 4"
								10		13'
43 mil	0.0451	0.0428	33	G60	2-1/2, 3-1/2, 3-5/8, 4, 6, 8	5/8"	12	5	210	81' 2"
								7.5		54' 2"
								10		40' 7"
							16	5		61' 1"
								7.5		40' 8"
								10		30' 6"
							24	5		40' 7"
								7.5		27' 1"
								10		20' 4"
54 mil	0.0566	0.0538	50	G60	2-1/2, 3-1/2, 3-5/8, 4, 6, 8	5/8"	12	5	280	104'
								7.5		69' 4"
								10		52'
							16	5		78' 2"
								7.5		52' 2"
								10		39' 1"
							24	5		52'
								7.5		34' 8"
								10		26'
68 mil	0.0713	0.0677	50	G60	3-5/8, 4, 6, 8	5/8"	12	5	365	146' 10"
								7.5		97' 10"
								10		73' 5"
							16	5		110' 5"
								7.5		73' 7"
								10		55' 2"
							24	5		73' 5"
								7.5		48' 11"
								10		36' 8"

NOTE: MAXIMUM LOADS ARE BASED ON AVERAGE TEST RESULTS

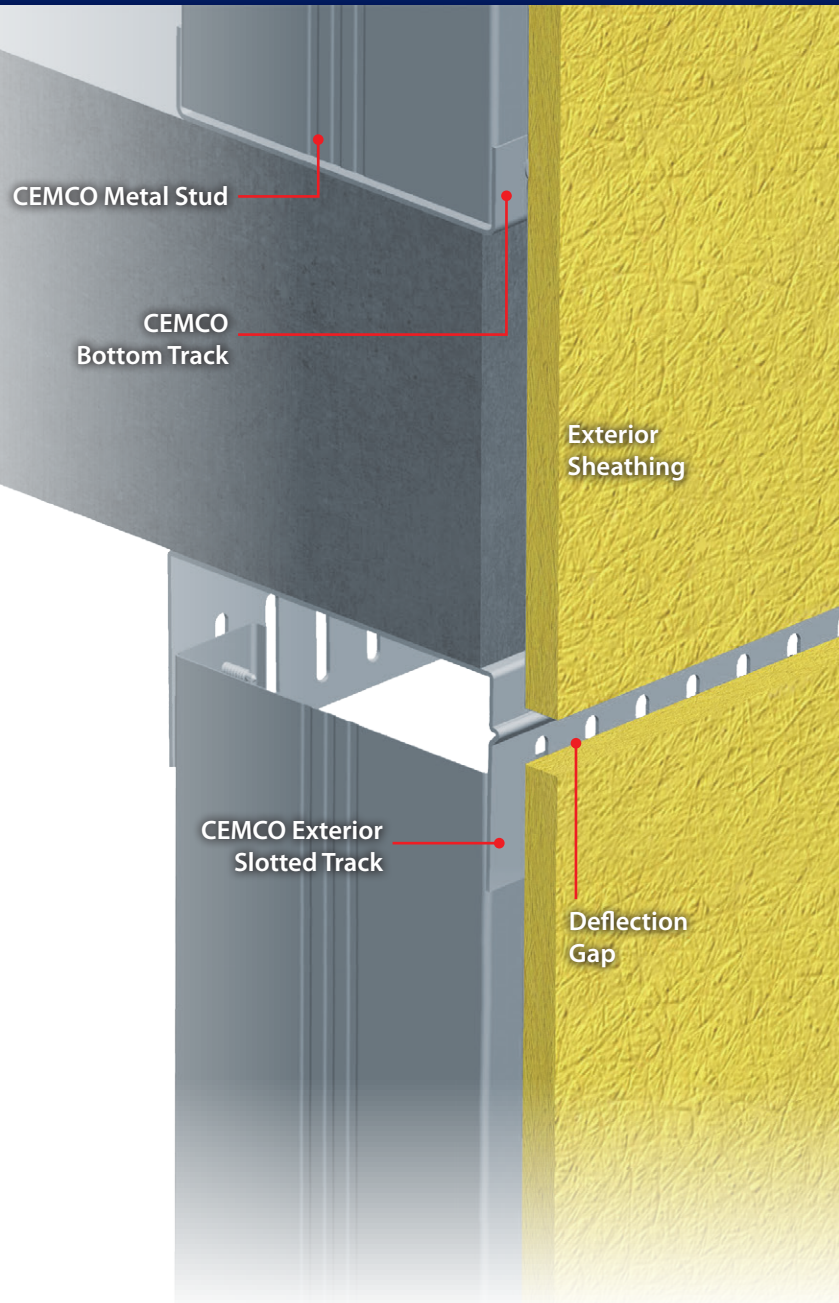
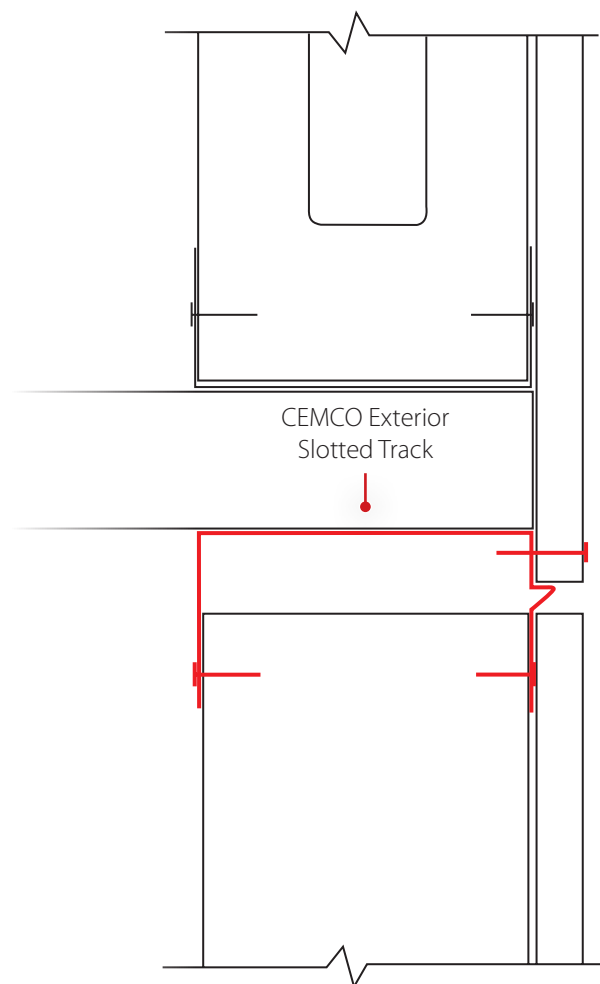


# Exterior Slotted Track

## Using the Right Product Saves Labor, Time and Money ...

At CEMCO we listen to the needs of the contractor and architect. CEMCO's Exterior Slotted Track addresses the fundamental properties of vertical deflection and drift movement, as well as alignment issues and installation needs that are currently problematic at floor line conditions. Keeping the contractor in mind, our patent pending design will provide a resting point for the exterior sheathing, an attachment guideline for stud fasteners, as well as a five-point attachment pattern in the web.

The section is fabricated from hot-dipped galvanized steel complying with ASTM A653, and ASTM A1003 Structural Grade 50 Type H for Grade 33 Type H for with a minimum G60 coating, and complies with ASTM A924/A924M.



Track Member Width	Leg Length	Gauge (mils)
3 5/8", 4", 6", and 8"	10'0"	20, 18, and 16, 14 GA (33, 43, 54, and 68 mil)

# FAS Track 1000

## Why I Should Specify and Use FAS Track® 1000?

### Contractors and Architects Have Spoken and CEMCO Has Responded

Introducing ... the most advanced version of the FAS Track product line "FAS Track 1000." FAS Track 1000 is the most efficient way to provide superior fire, smoke and sound protection within a composite deflection track according to UL-2079 without the use of fire caulking.

The intumescent on the FAS Track 1000 is installed solely on the web where it can perform more efficiently. There are several benefits to having the intumescent on the web.

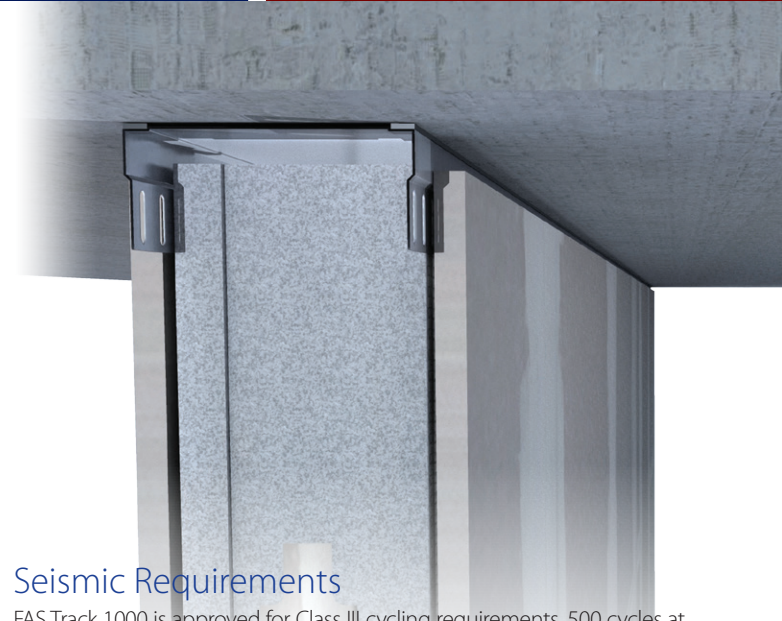
- 1 FAS Track 1000 provides a **sound deadening element** to the head-of-wall joint that has been tested and proven to provide even **greater STC rating** than acoustic sealant.
- 2 FAS Track 1000 provides a **superior gasket** when sealing against **uneven concrete decks** and with the intumescent compressed between the track and the concrete deck it ensures that the intumescent will not pull away from the track or be damaged by other trades.
- 3 Best of all, because of the efficiency of the FAS Track 1000 profile, **less intumescent** is required so it can be offered at **much more competitive pricing** when compared to the current intumescent deflection tracks on the market and still provide **3/4" movement**.

### Code Compliance

FAS Track 1000 meets current building codes and its unique profile design provides industry solutions for meeting deflection requirements where other materials or systems are restricted by design, compressibility, and constructibility.

FAS Track 1000 has no restrictions providing 100% unencumbered movement. FAS Track 1000 has been tested for compliance with Section 713.3 of the 2012/2015 IBC and 2010/2013 CBC and is listed with UL Underwriters Laboratories in accordance with:

- UL 2079: Tests for Fire Resistance of Building Joint Systems.
- ASTM E 1966: Standard Test Method of Fire Tests of Firestop Systems.
- ULC S115-M95: Standard Method of Fire Tests of Firestop Systems.
- ICC-ES ESR-1012: CEMCO Slotted Track (CST/SLP-TRK® Brand Slotted Track, CST-W, FAS Track 1000® (FAST 1000), FAS J-Track (FASJ)).
- ASTM E-119 Standard Test Methods for Fire Tests of Building Construction and Materials.
- Sound tested in accordance to ASTM E90-09.



### Seismic Requirements

FAS Track 1000 is approved for Class III cycling requirements, 500 cycles at 30 cycles per minute, meeting seismic building codes requirements. The Class III movement provides design advantages over mastic reliant systems which are typically limited to Class II (wind sway) capabilities of 500 cycles at 10 cycles per minute.

### Air Leakage Rating

Air leakage tests conducted for compliance with Section 713.6 of the 2012/2015 IBC and 2010/2013 CBC are witnessed by UL on conditions using FAS Track as the joint treatment established L-Ratings of less than 1 CFM per lineal foot. Any rating below 1 CFM is also considered the best possible L-Rating. This is achieved with the FAS Track 1000 profile which provides a consistent seal against the drywall.

### Sound Benefits

Whether the protection you need is Fire, Air (Smoke), or Sound, FAS Track 1000 is all the protection you need in one easy application.

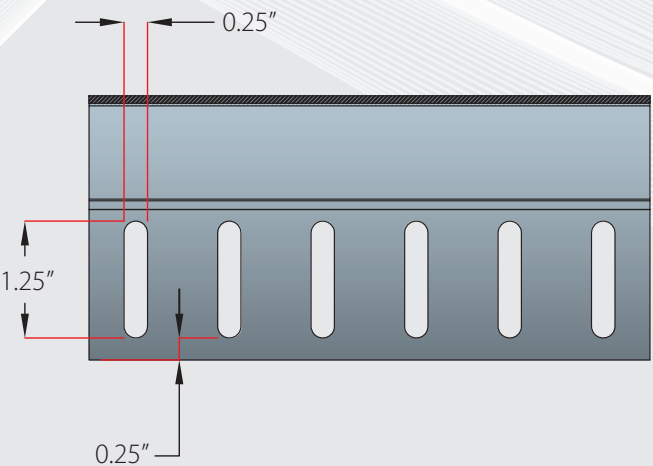
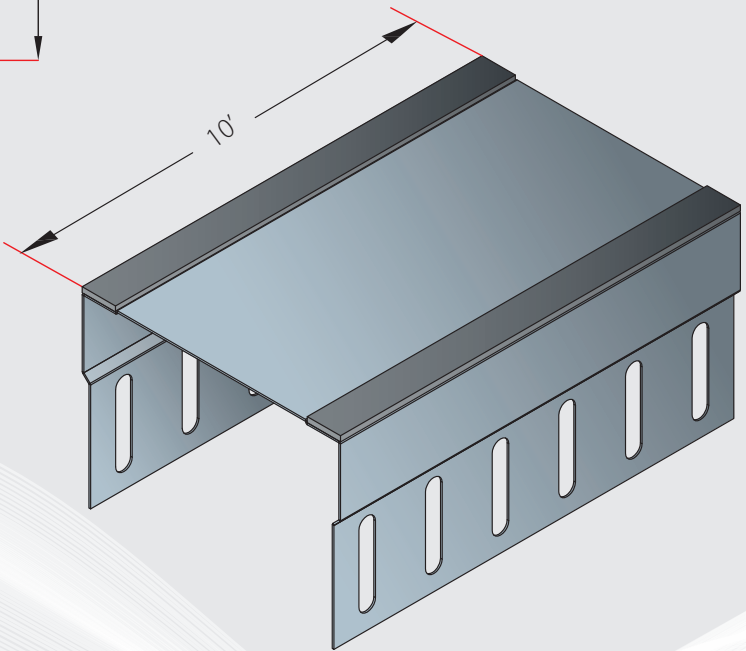
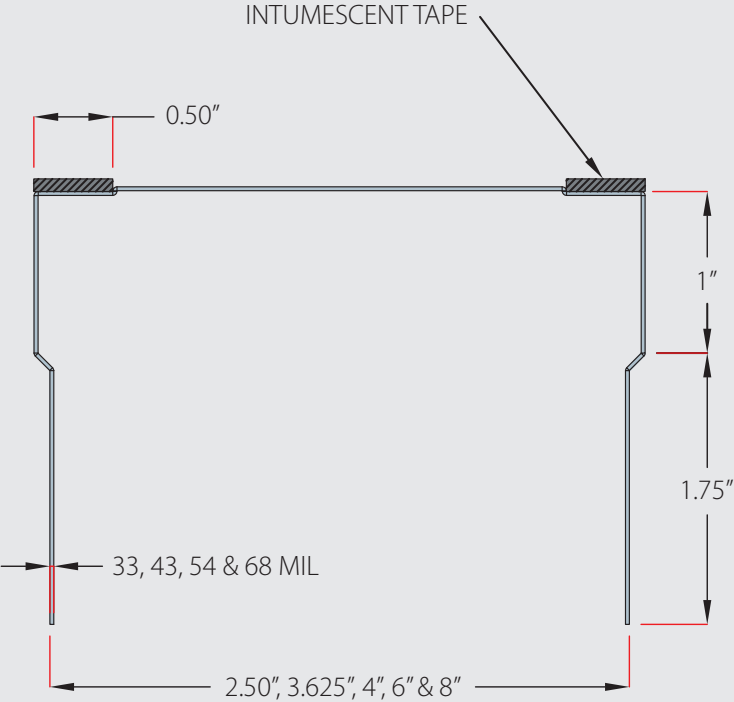
Sound tests were performed at Western Electro-Acoustic Laboratory in Southern California to prove that the FAS Track 1000 profile will maintain maximum STC ratings without secondary acoustic sealant applications. In fact, several sound tests were conducted with a 1/2" to 3/4" open joint at the head-of-wall and with a sealed head-of-wall joint on the same wall assembly. Both open and closed joints rendered the exact same STC rating proving that no sound is lost through the open head of wall joint.

Sound tests were also conducted on a 2-1/2" wide stud double wall (a.k.a. plumbing-wall or chase-wall) with a single layer on both sides rendering an STC rating of 60. Adding one layer to only one side of the double wall increased the STC rating to 63.

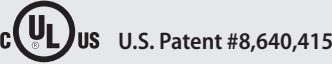
Additional FAS Track 1000 sound tests were conducted at Orfield Laboratories in Minneapolis, MN on 3-5/8" 20 EQ stud wall assemblies and produced STC ratings of 50-53. Complete sound test reports can be downloaded at [www.cemcosteel.com](http://www.cemcosteel.com)

### Technical Assistance

For technical questions and assistance please call 1.800.775.2362 or 1.800.416.2278, email [dpilz@cemcosteel.com](mailto:dpilz@cemcosteel.com) or visit our website at [www.cemcosteel.com](http://www.cemcosteel.com).



"A" Track Member Width (inch)	2-1/2, 3-5/8, 4, 6, and 8
Flange Size (inch)	2-3/4"
Length (ft)	10'
"G" Steel Thickness mils (gauge)	33, 43, 54 (20, 18, 16)

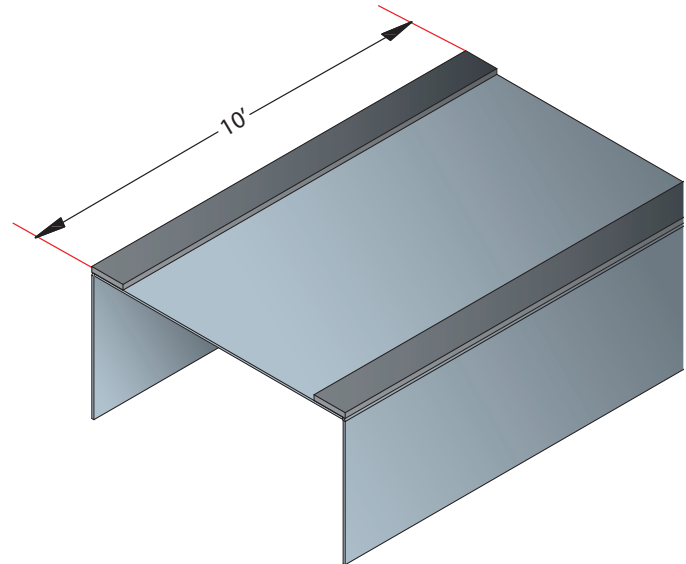
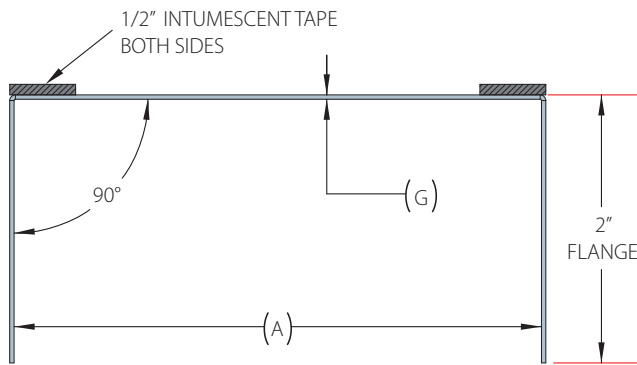


CEMCO FAS TRACK 1000 ALLOWABLE LOADS AND HEIGHTS (1-1/4" SLOTS)										
Model No.	Design Thickness (in.)	Minimum Thickness (in.)	Yield (KSI)	Coating	Web Sizes (in.)	Gap (in.)	Stud Spacing (in.)	Lateral Load (PSF)	Max Load (LB)	Max Height
33 mil	0.0346	0.0329	33	G60	2-1/2, 3-1/2, 3-5/8, 4, 6, 8	5/8"	12	5	125	48'
								7.5		32'
								10		24'
							16	5		36' 1"
								7.5		24' 1"
								10		18' 0"
							24	5		24'
								7.5		16'
								10		12'
								10		12'
43 mil	0.0451	0.0428	33	G60	2-1/2, 3-1/2, 3-5/8, 4, 6, 8	5/8"	12	5	160	52' 10"
								7.5		35' 2"
								10		26' 5"
							16	5		39' 8"
								7.5		26' 6"
								10		19' 10"
							24	5		26' 5"
								7.5		17' 7"
								10		13' 2"
								10		13' 2"
54 mil	0.0566	0.0538	50	G60	2-1/2, 3-1/2, 3-5/8, 4, 6, 8	5/8"	12	5	280	88' 5"
								7.5		58' 11"
								10		44' 2"
							16	5		66' 5"
								7.5		44' 4"
								10		33' 3"
							24	5		44' 2"
								7.5		29' 6"
								10		22' 1"
								10		22' 1"
68 mil	0.0713	0.0677	50	G60	3-5/8, 4, 6, 8	5/8"	12	5	385	154'
								7.5		102' 8"
								10		77'
							16	5		115' 9"
								7.5		77' 2"
								10		57' 10"
							24	5		77'
								7.5		51' 4"
								10		38' 6"
								10		38' 6"

NOTE: MAXIMUM LOADS ARE BASED ON AVERAGE TEST RESULTS

## FAS Track 1000 DL

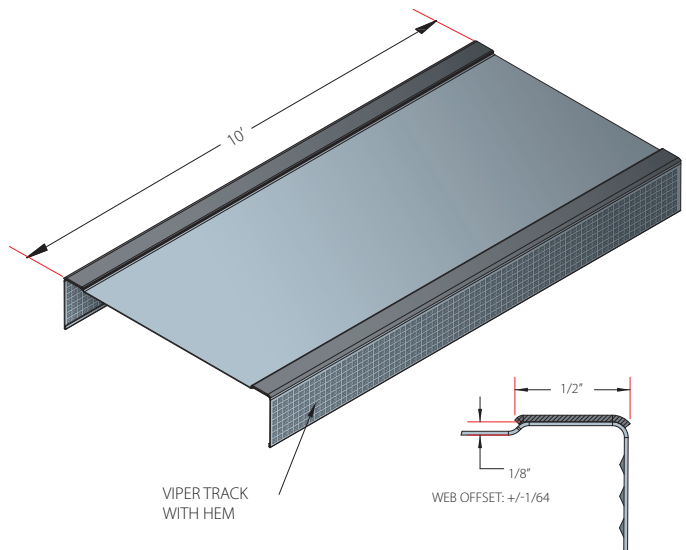
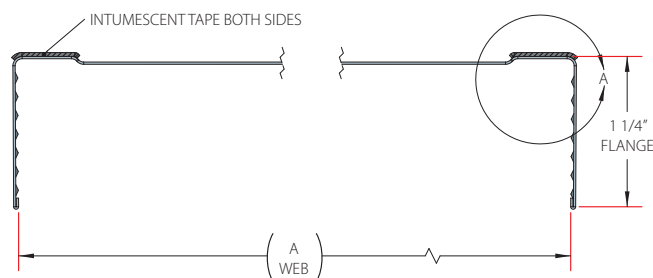
CEMCO FAS Track 1000 DL is a deflection track with 1/2" Intumescent Tape that offers fire and air (smoke) protection. The section is fabricated from hot-dipped galvanized steel complying with ASTM A653, and ASTM A1003 Grade 33 Type H for 33 ksi yield strength steel for 20 gauge (33 mils) with a minimum G40 coating complying with ASTM A924, and 18 gauge (43 mils) with a minimum G60 coating complying with ASTM A924; and Grade 50 Type H for 50 ksi yield strength steel for 16 gauge (54 mils) with a minimum G60 coating complying with ASTM A924. CEMCO FAS Track 1000 DL has been tested with Underwritten Laboratories in accordance with UL 2079.



"A" Track Member Width (in)	Flange Size (in)	Length (ft)	Steel Thickness mils (gauge)
2-1/2, 3-5/8, 4, 6, 8	2	10	33, 43, and 54 (20, 18, and 16)

## FAS Track BT 1000

CEMCO FAS Track BT 1000 is a bottom track that offers fire and air (smoke) protection. The section is fabricated from hot-dipped galvanized steel complying with ASTM A653, and ASTM A1003 for 50 ksi yield strength steel for 20EQ (20/21 mils) with a minimum G40 coating complying with ASTM A924, ASTM A1003 for 33 ksi yield strength steel for 20 gauge (30 mils) with a minimum G40 coating complying with ASTM A924, and 18 gauge (43 mils) with a minimum G60 coating complying with ASTM A924; and Grade 50 Type H for 50 ksi yield strength steel for 54 mil (16 gauge) with a minimum G60 coating complying with ASTM A924.



"A" Track Member Width (in)	Flange Size (in)	Length (ft)	Steel Thickness mils (gauge)
2-1/2, 3-5/8, 4, 6	1-1/4	10	20, 21, 30, 43 and 54 (20EQ, 19, 20, 18 and 16)

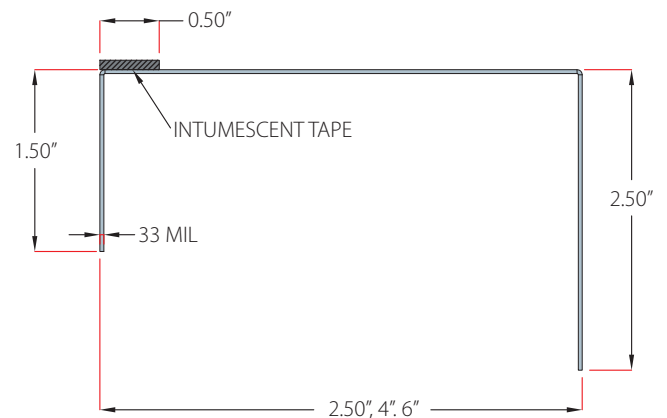
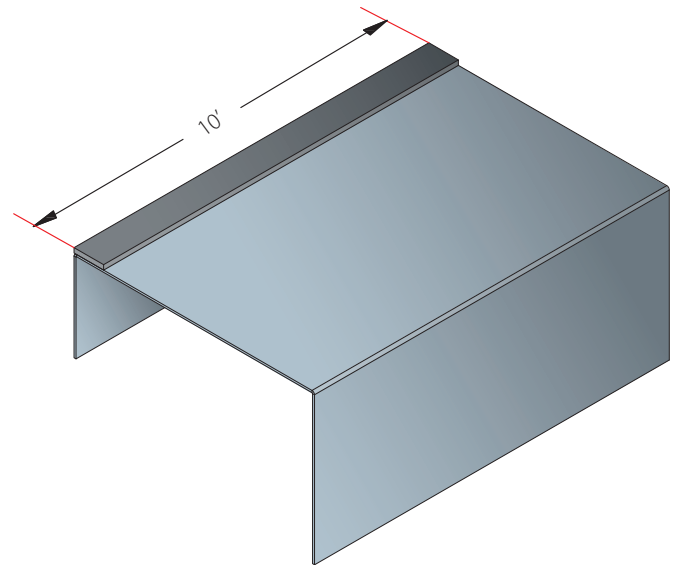


# FAS J-Track

## FAS® J-Track Provides the Same Great Benefits of FAS Track 1000 Within a Shaft Wall Assembly

- FAS J-Track has longer legs than standard J-Runner to provide greater deflection at the head-of-wall joint.
- FAS J-Track provides 3/4" overall unencumbered movement.
- FAS J-Track provides the best possible L-Rating (smoke) for 1 and 2 hour fire ratings.
- FAS J-Track eliminates the installation of fire caulking or additional drywallrips.

FAS J-Track is fabricated from hot-dipped galvanized steel complying with ASTM A653, and ASTM A1003 Grade 33 Type H for 33 ksi yield strength steel for 33 mils (20 gauge) with a minimum G40 coating complying with ASTM A1003. FAS J-Track has been tested with Underwritten Laboratories in accordance with UL 2079 for shaft wall assemblies.

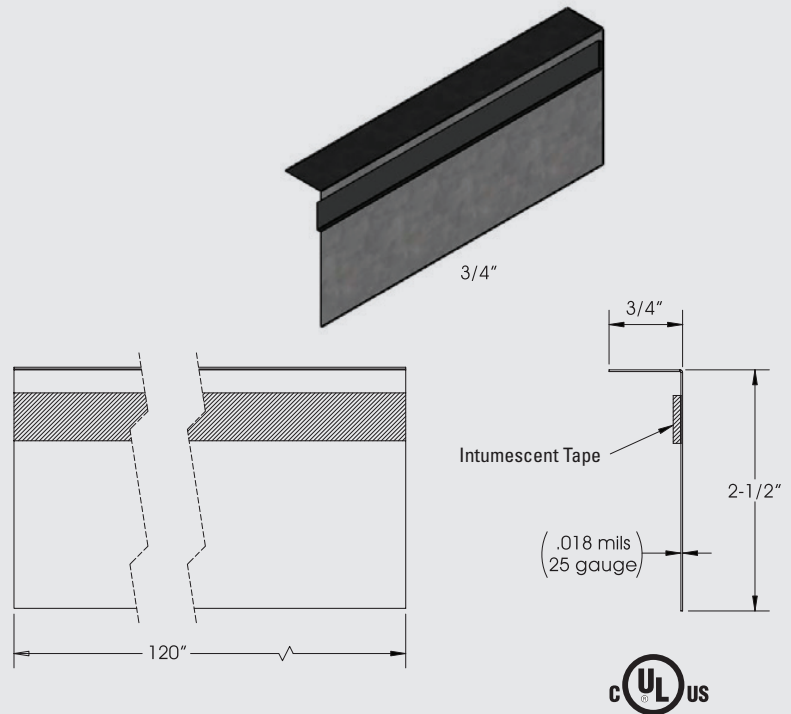
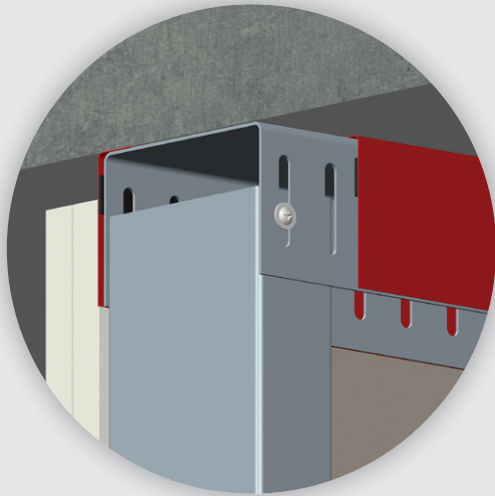


CEMCO FAS J-Track Allowable Loads and Heights										
Model No.	Design Thickness (in.)	Minimum Thickness (in.)	Yield (KSI)	Coating	Web Sizes (in.)	Gap (in.)	Stud Spacing (in.)	Lateral Load (PSF)	Max Load (LB)	Max Height
33 mil	0.0346	0.0329	33	G40	2-1/2, 4, 6	3/4"	12	5	75	22' 5"
								7.5		15' 0"
								10		11' 2"
							16	5		22' 7"
								7.5		15' 0"
								10		11' 3"
							24	5		19' 0"
								7.5		12' 8"
								10		9' 6"

NOTE: BASED ON TEST RESULTS

## DDA Fire Block

US Patent #8,595,999



## **Fire Block**

## The Most Efficient Method in Firestopping

### Contractor Preferred, Architect Specified

The DDA Fire Block is a fire-rated accessory that when combined with slotted leg, deep leg or J-Runner track will offer up to 2" unencumbered movement at the head-of-wall joint in accordance with UL-2079 "Test for Fire Resistance of Building Joint Systems". The 2-1/2" outside leg is red and marked with the proper UL identification. The section is fabricated from both minimum 0.018-inch thick hot-dipped red galvanized steel complying with ASTM A653 having minimum G-40 coating and intumescent tape.

### Code Compliance

DDA not only meets all current building code deflection requirements but it can also provide fire, smoke and sound protection for drift and lateral movement. DDA is the first of its kind to provide unencumbered movement in both vertical deflection and lateral drift movement in a joint system that utilizes fire spray over mineral wool on just one side of the wall.

DDA has no restrictions providing 100% unencumbered movement. DDA has been tested for compliance with Section 713.3 of the 2012/2015 IBC and 2010/2013 CBC and is listed with UL Underwriters Laboratories in accordance with:

- UL 2079: Tests for Fire Resistance of Building Joint Systems.
- ASTM E 1966: Standard Test Method of Fire Tests of Firestop Systems.
- ULC S115-M95: Standard Method of Fire Tests of Firestop Systems.
- ICC-ES ESR-2012
- ASTM E-119 Standard Test Methods for Fire Tests of Building Construction and Materials.
- Sound Tested in Accordance with ASTM E90-09.
- For complete list of all UL joint systems visit [cemcosteel.com](http://cemcosteel.com)

### Seismic Requirements

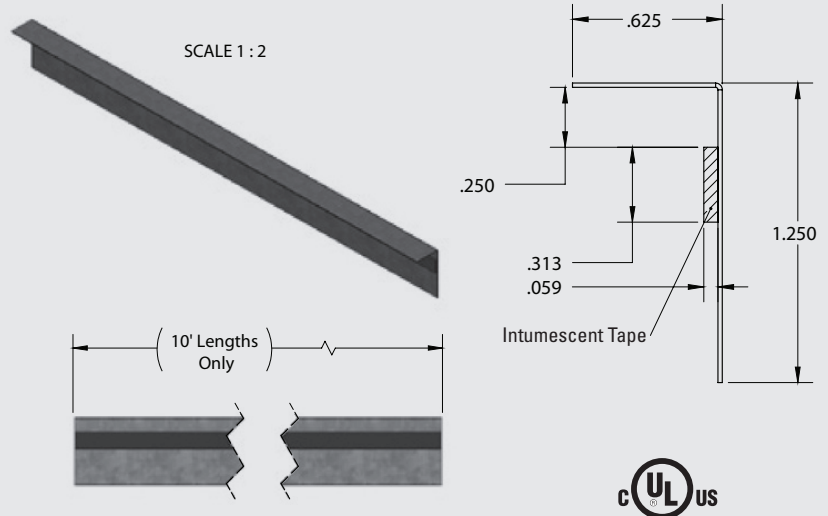
DDA is approved for Class III cycling requirements, 500 cycles at 30 cycles per minute, meeting, seismic building codes requirements. The Class III movement provides design advantages over mastic reliant systems which are typically limited to Class II (wind sway) capabilities of 500 cycles at 10 cycles per minute.

### Air Leakage Rating

Air leakage tests conducted for compliance with Section 713.6 of the 2012/2015 IBC and 2010/2013 CBC are witnessed by UL on conditions using DDA as the joint treatment established L-Ratings of less than 1 CFM per lineal foot. Any rating below 1 CFM is also considered the best possible L-Rating.

## DDA-1 Fire Block

Up to 1" Overall Movement With No Fire  
Spray Required Over Mineral Wool



### DDA®

US Patent #8,595,999 B1 (Deflection Drift Angle®) is a composite steel angle with intumescent tape factory applied to the inside leg of the steel angle. The DDA is a fire-rated accessory that when combined with slotted or deep leg track will offer 2" unencumbered movement at the head-of-wall joint in accordance with UL-2079 "Test for Fire Resistance of Building Joint Systems". The 2-1/2" outside leg marked for proper identification. The section is fabricated from minimum 0.018-inch thick hot-dipped red galvanized steel complying with ASTM A653 having minimum G-40 coating.

### Benefits

- The DDA provides a universal fit for any wall width, gauge, height, radius, pitched, shaft wall or standard wall.
- Up to 1" movement with NO Fire Spray required over mineral wool.
- Easy installation; DDA is tapped into place over the leg of the track, the 3/4" leg is friction fit between the overhead structure and the web of the header track.
- There is no need for mechanical fasteners as the DDA's friction fit provides fire and smoke protection during both vertical and lateral drift movement.
- The DDA comes in 10' lengths with 10 pieces per box, providing up to 2" unencumbered movement with positive stud attachment. DDA can be butt-joined or over-lapped.
- When fire spray is required for 2" movement, RectorSeal brand fire sprays are required on ONLY ONE SIDE of the wall.
- Over 20 separate UL reports in accordance to UL2079 "Test for Fire Resistance of Building Joints."

- Maintains best possible LRating (smoke rating) and NO loss of STC sound ratings at head-of-wall joint.
- Uses up to 75% less fire spray while the majority of the joint systems requiring no fire spray at all.
- DDA and RectorSeal® brand fire spray offer an industry best sustainable-life warranty.
- DDA and Rectorseal brand fire sprays and sealants are 100% made in the USA.
- All Engineering Judgements utilizing fire spray or fire sealant are provided by RectorSeal.

### Sound Benefits

Whether the protection you need is Fire, Smoke, or Sound, DDA will help you achieve your requirements. Sound tests were performed at Western Electro-Acoustic Laboratory in Southern California to prove that the DDA will maintain maximum STC ratings without secondary acoustic sealant applications. In fact several sound tests were conducted both with a 1/2" to 3/4" open joint at the head-of-wall and with a sealed head-of-wall joint on the same wall assembly. Both open and closed joints rendered the exact same STC rating proving that no sound transmission occurs through the open head of wall joint.

DDA will provide protection for the most extreme real life conditions and allow your head-of-wall joint to freely move both lateral and vertically without ever compromising the sound (STC) rating.

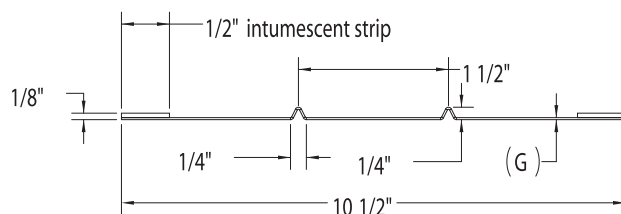
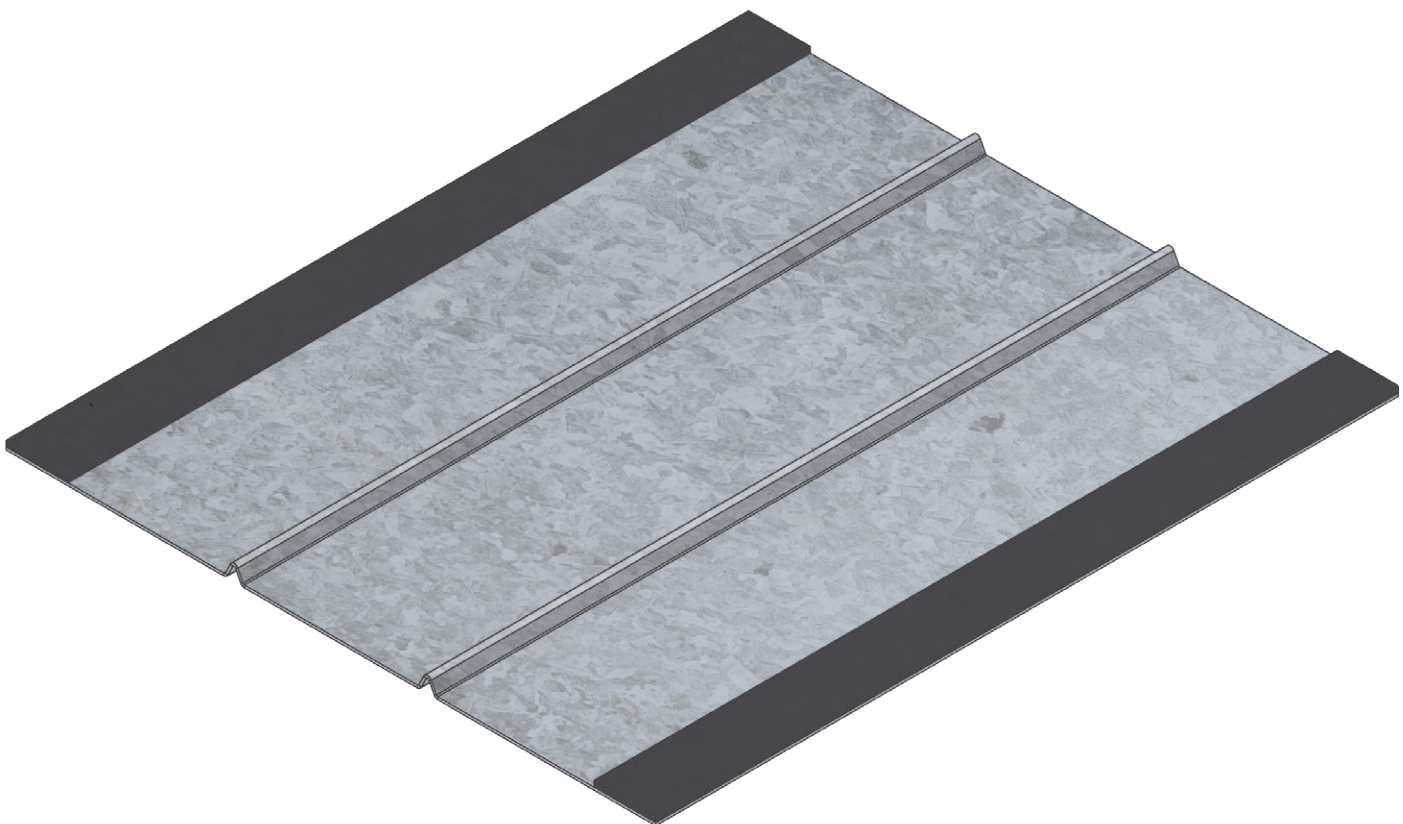
### Technical Assistance

For technical questions and assistance please call 1.800.775.2362 or 1.800.416.2278, email [dpilz@cemcosteel.com](mailto:dpilz@cemcosteel.com) or visit our website at [www.cemcosteel.com](http://www.cemcosteel.com).

## FAS Strap

### FAS Strap Specification

FAS Strap is a flat strap with 2 strips of 1/2" intumescent. This strap is fabricated from hot-dipped galvanized steel complying with ASTM A653, and ASTM A1003 Grade 33 Type H for 33 ksi yield strength steel for 20 (33 mils) with a minimum G40 coating complying with ASTM A924; and Grade 50 Type H for 50 ksi yield strength steel for 16 gauge (54 mils) with a minimum G60 coating complying with ASTM A924. The FAS STRAP is listed under Underwriters Laboratories for one and two hour head of wall fire rated wall assemblies.



<b>Member Width</b>	10-1/2"
<b>Length</b>	10'
<b>Gauge (mils)</b>	20 and 16 GA (30 and 54mil)

\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR





# Track



# Track

TAB FAS TRACK | SCREW-LESS ATTACHMENT

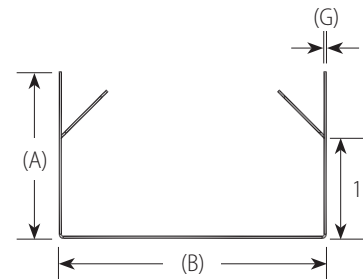
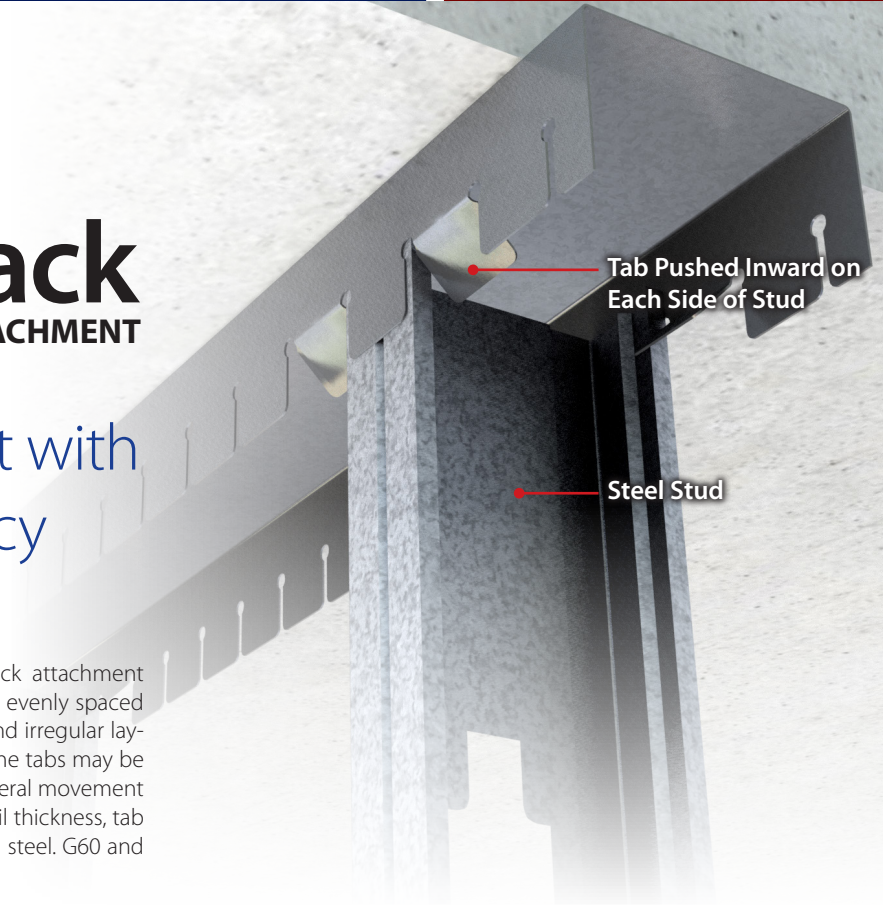
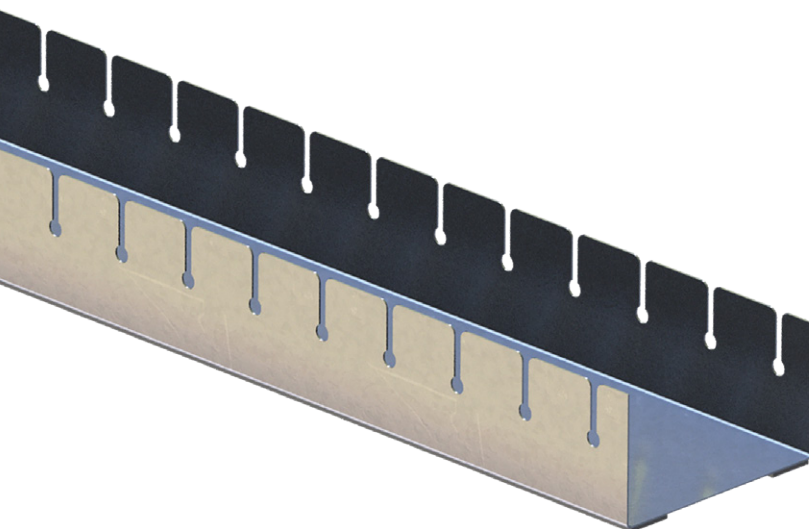
## Labor Saving Product with Unparalleled Efficiency

### TAB Track

CEMCO TAB TRACK provides a screw-less stud-to-track attachment for metal stud wall framing. A series of 1" long tabs are evenly spaced across the track's legs providing flexibility for regular and irregular layout. Once the studs are nested within the TAB TRACK the tabs may be pushed inward on either side of the stud to prohibit lateral movement while maintaining vertical deflection. Available in 33 mil thickness, tab track is manufactured from G40 hot-dipped galvanized steel. G60 and G90 are available only upon special request.

### TAB FAS® Track

CEMCO TAB FAS TRACK is also available in a fire-rated version to provide fire, air (smoke), and sound abatement by utilizing factory applied intumescent tape to the track profile and is tested and certified according to UL-2079 and sound tested according to ASTM E90.



Thickness (mil.)	33
Design Thickness (in.) <sup>1</sup> (G)	0.0346
Minimum Thickness (in.) <sup>1,2</sup> (G)	0.0329
Yield (KSI)	33
Web Sizes (in.) (B)	2-1/2, 3-5/8, 4, 6, 8
Leg Size (in.) (A)	2-1/2

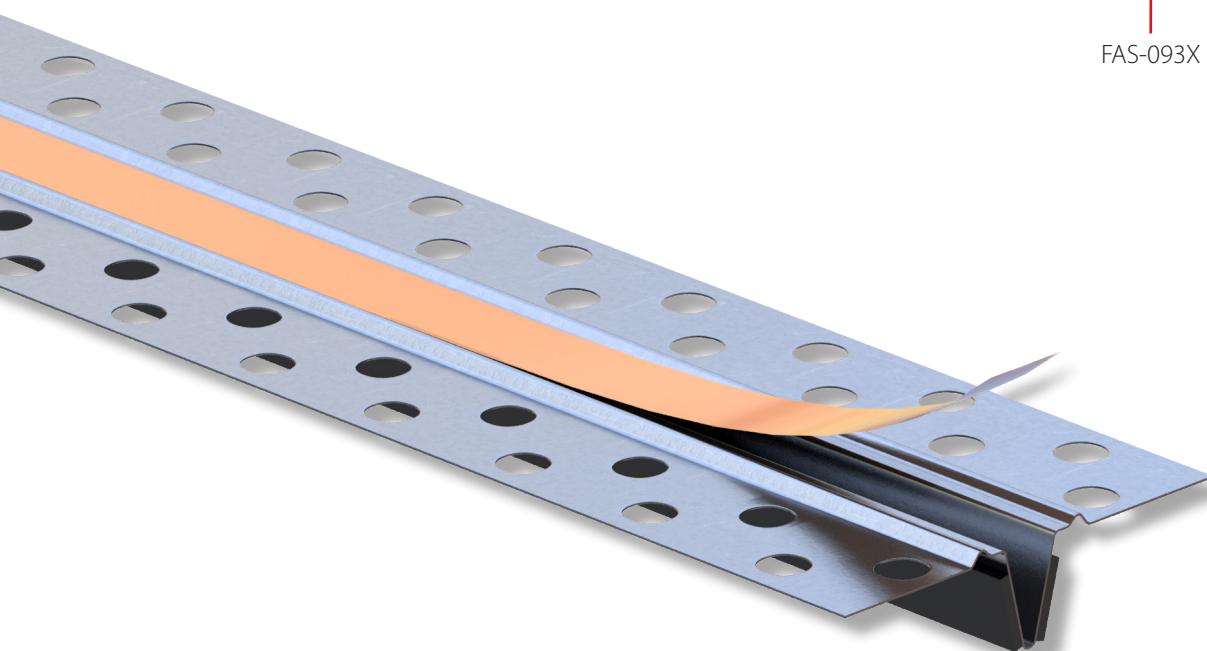
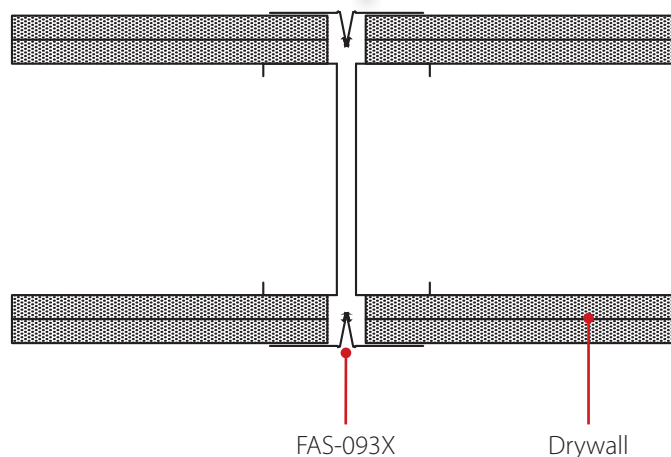
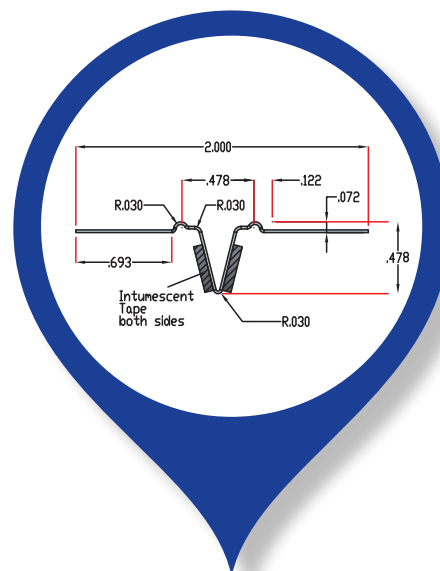




## Single Step Application

CEMCO's FAS-093X Fire Rated control joint is a composite control joint with intumescent tape factory applied to the back side of the control joint. The FAS-093X has been tested according to UL-2079 "Test For Fire Resistance of Building Joint Systems" and is used to relieve stresses of expansion and contraction of drywall interior partitions or ceilings running in a horizontal or vertical direction. The opening is protected by an orange plastic tape to indicate the fire rating. This tape is removed after joint compound has been applied and the finish is completed. The section is fabricated from hot-dipped galvanized steel complying with ASTM A653, and ASTM A1003 Grade 33 Type H for 33 ksi yield strength steel 13 mil thickness.

- **NO** Drywall Rips Required
- **NO** Fire Sealant Required
- **NO** Mineral Wool Required



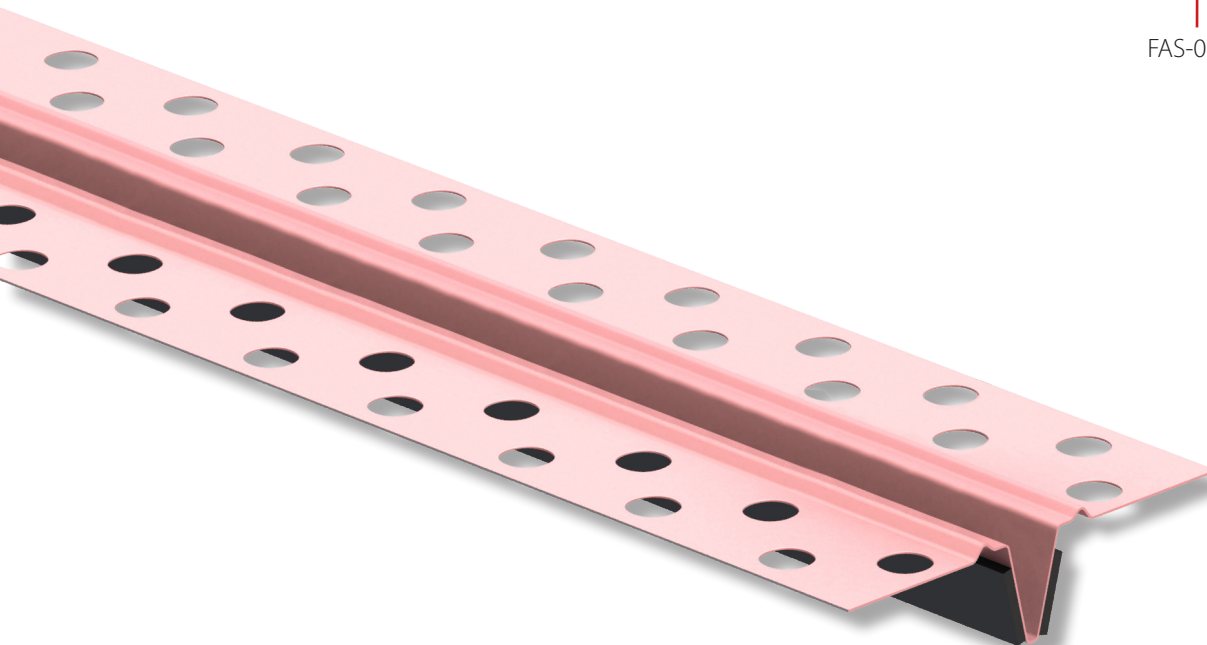
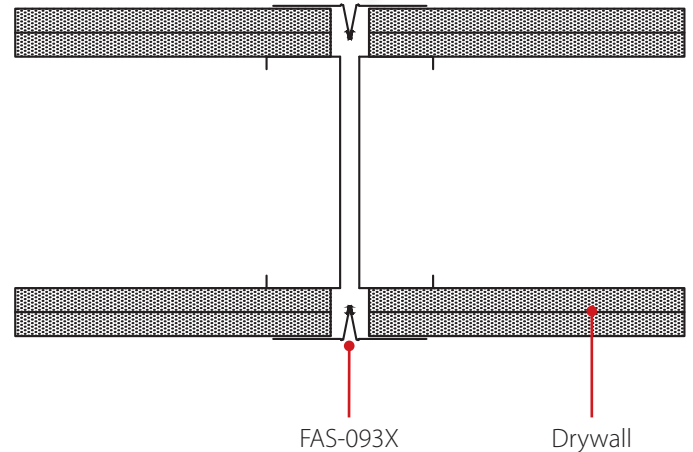
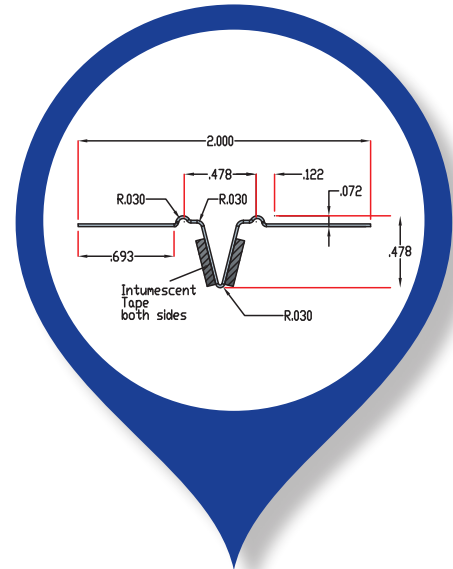
# FAS 093X-V

FIRE | AIR | SOUND

## FAS 093X-V (Vinyl Fire Rated Control Joint)

CEMCO's FAS-093X-V Vinyl Fire Rated Control Joint is a composite control joint with intumescent tape factory applied to the back side of the control joint. The FAS-093X-V has been tested according to UL-2079 "Test For Fire Resistance of Building Joint Systems" and is used to relieve stresses of expansion and contraction of drywall interior partitions or ceilings running in a horizontal or vertical direction. The FAS 093X-V features a co-extruded flexible PVC center that is designed to provide a full 3/8" of protection against the stresses of expansion and contraction.

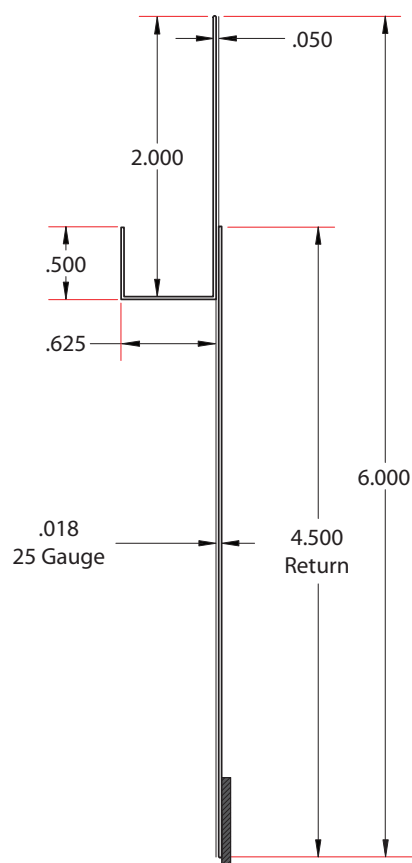
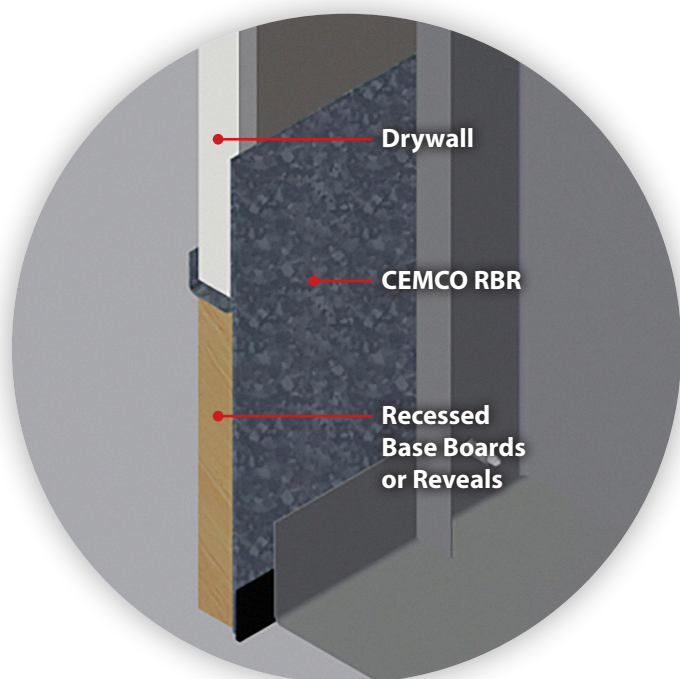
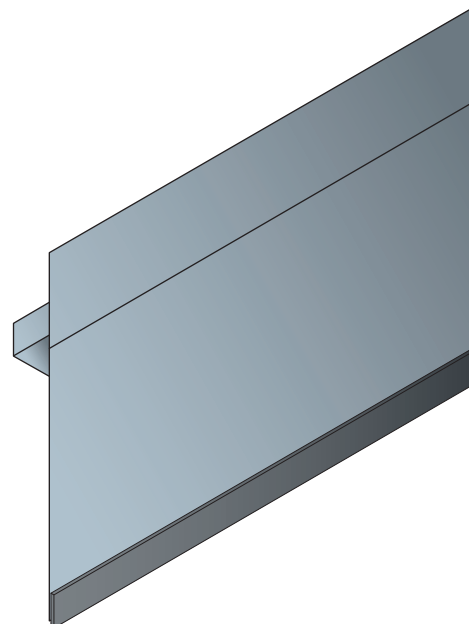
- **NO** Drywall Rips Required
- **NO** Fire Sealant Required
- **NO** Mineral Wool Required



**FAS<sup>®</sup> RBR**  
FIRE | AIR | SOUND  
**RATED BASE REVEAL**

## FAS RBR (Rated Base Reveal)

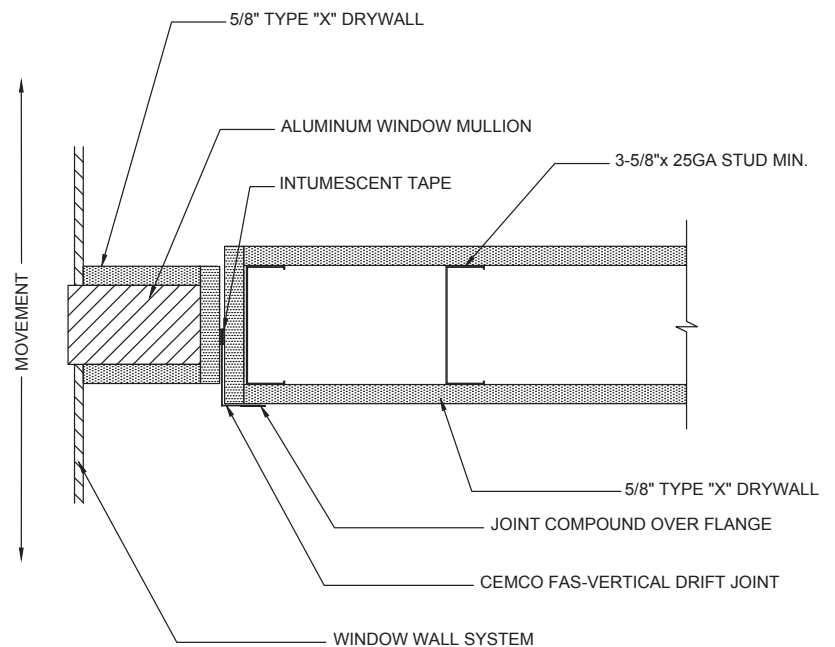
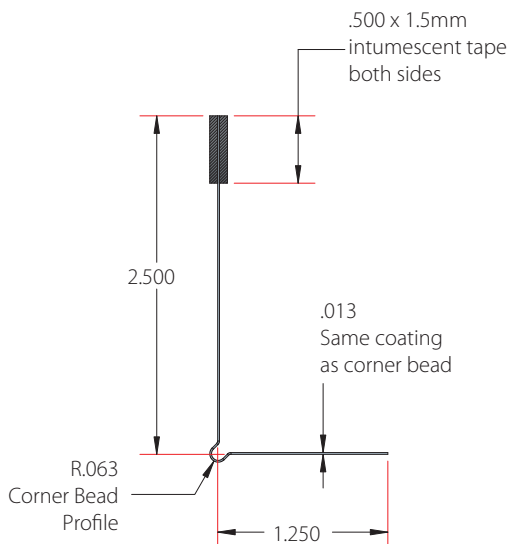
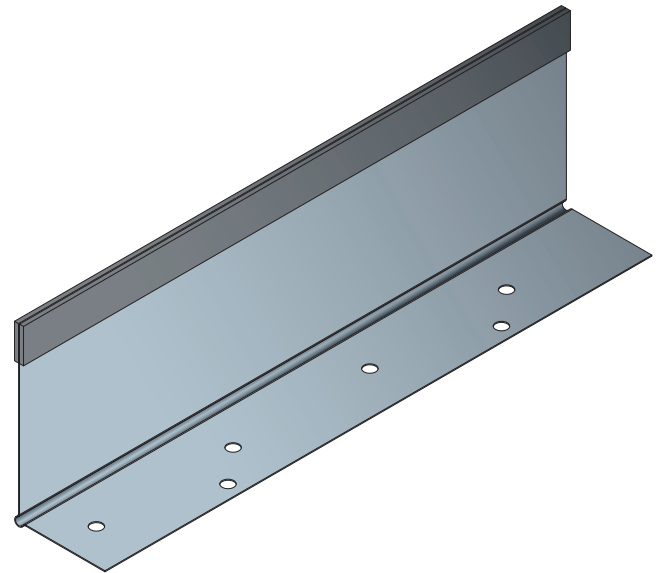
2-ply Steel Firestopping Flat Strap providing fire protection to accommodate fire ratings for architectural aluminum reveals. The FAS Reveal has been tested to UL-2079 "Test For Fire Resistance of Building Joint Systems" FAS-Reveal is fabricated from hot-dipped galvanized steel complying with ASTM A653, and ASTM A1003 Grade 33 Type H for 33 ksi yield strength steel for 25 gage (18 mil) with a minimum G40 coating complying with ASTM A924.



**FAS® VDJ**  
FIRE | AIR | SOUND  
**VERTICAL DRIFT JOINT**

## FAS Vertical Drift Joint

CEMCO's FAS Vertical Drift Joint is a composite steel/intumescent corner bead with 2 layers of factory applied intumescent tape applied to the longer leg of the accessory. The intumescent strips work as a compression gasket to prevent the passage fire, smoke and sound between the metal stud drywall panel and the drywall encased around the aluminum window mullion. The FAS Vertical Drift Joint is tested and certified with UL according to UL-2079 and will provide unencumbered drift and vertical movement between the adjoining wall panels. The profile is fabricated from hot-dipped galvanized steel complying with ASTM A653, and ASTM A1003 Grade 33 Type H for 33 ksi yield strength steel for 25 gage (18 mil).

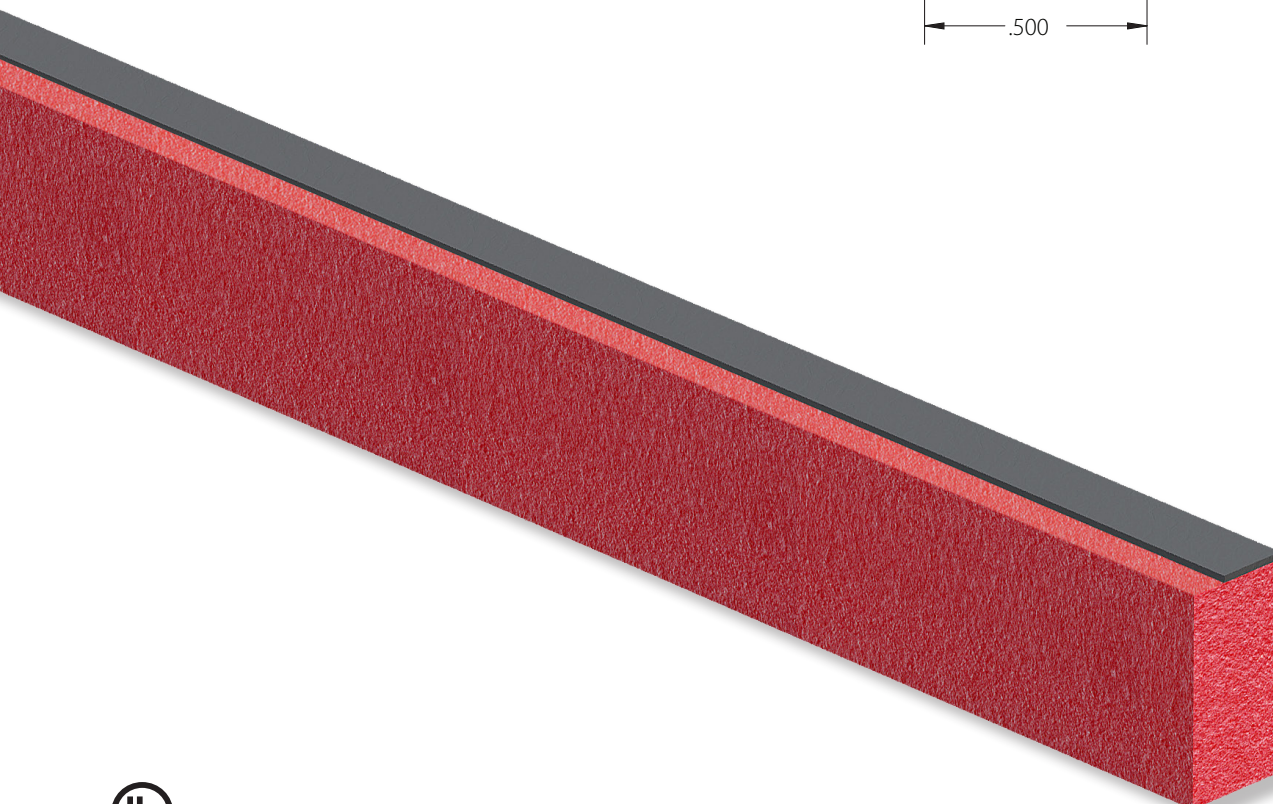
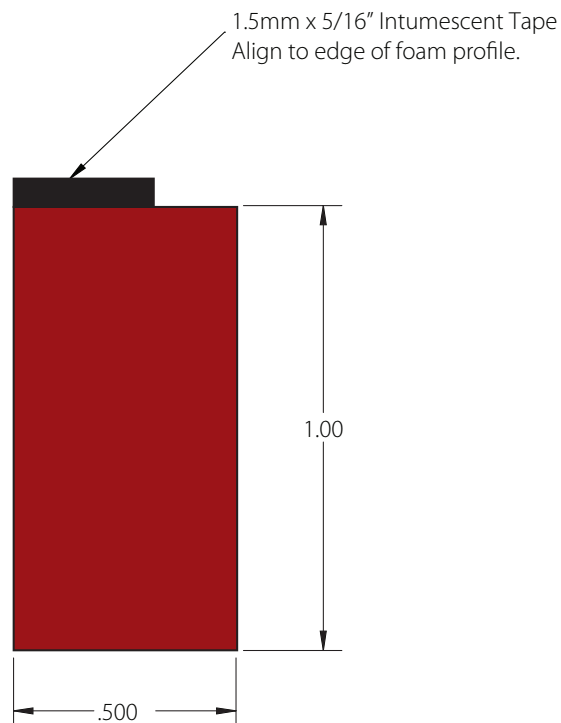




## Compressible Firestopping Foam

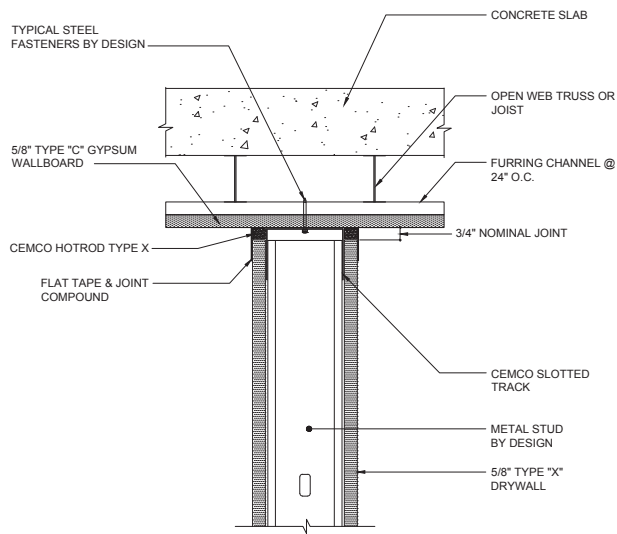
CEMCO HOTROD Type-X is a compressible intumescent firestopping foam that provides 1 and 2 hour fire-ratings for both dynamic and static joints according to UL-2079 (for both standard walls and shaft walls) and is sound tested according to ASTM E90.

- HOTROD has a rectangular profile and is easily compressed into the deflection gap between the edge of the drywall and adjoining structure.
- HOTROD is red in color and is easily identified by the inspector.
- HOTROD takes the place of BOTH fire and sound sealant and will not shrink, pull away, or harden over time.
- HOTROD allows the joint compound to be applied evenly, providing a smooth and consistent esthetic finish look for head-of-wall joints.



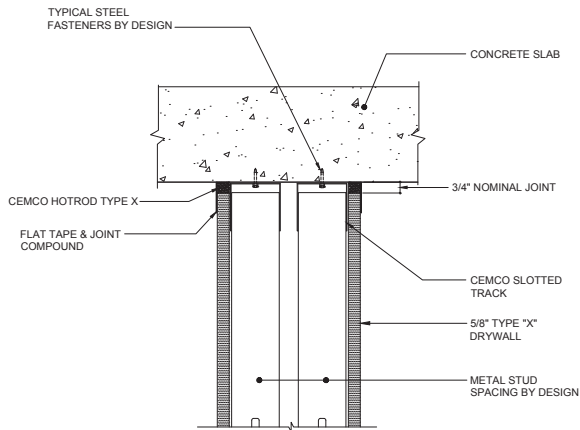


## HW-D-0550 1 HR. STANDARD WALL, GYPSUM WALLBOARD CEILING

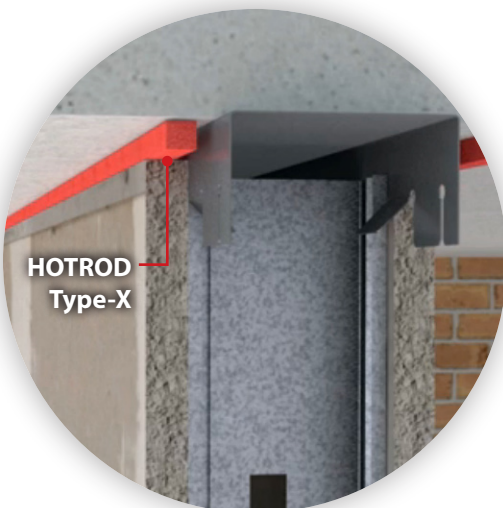


\*NOTE: DOUBLE LAYERS OF 5/8" DRYWALL FOR 2 HOUR FIRE RATING

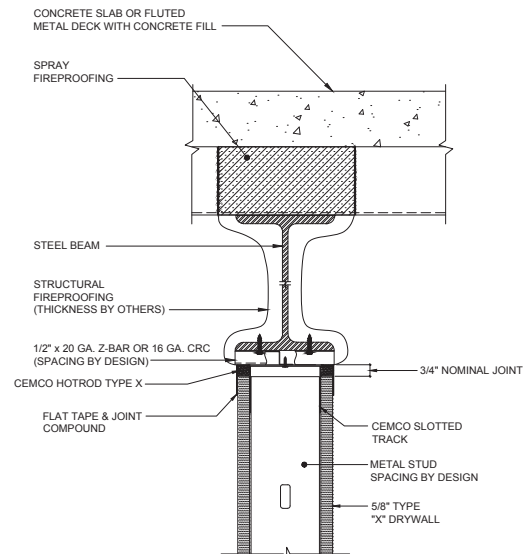
## HW-D-0554 1 HR. STANDARD CHASE WALL, CONCRETE SLAB



\*NOTE: DOUBLE LAYERS OF 5/8" DRYWALL FOR 2 HOUR FIRE RATING

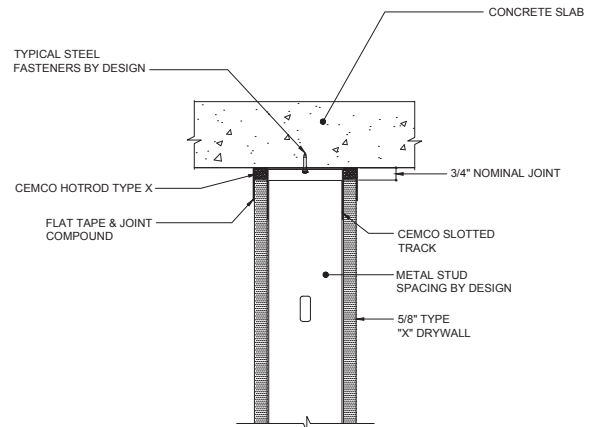


## HW-D-0551 1 HR. STANDARD WALL, CENTERED DIRECTLY UNDER BEAM



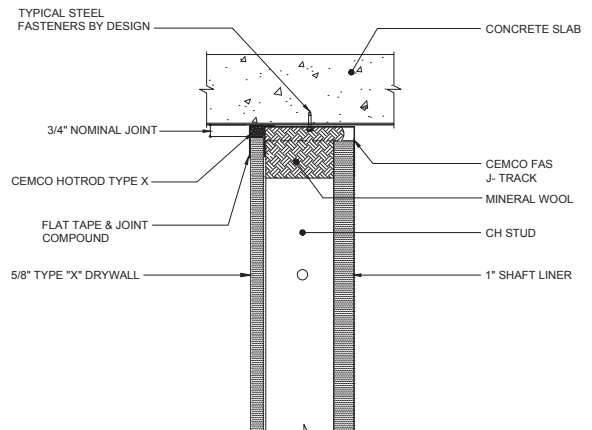
\*NOTE: DOUBLE LAYERS OF 5/8" DRYWALL FOR 2 HOUR FIRE RATING

## HW-D-0624 1 HR. STANDARD WALL, CONCRETE SLAB



\*NOTE: DOUBLE LAYERS OF 5/8" DRYWALL FOR 2 HOUR FIRE RATING

## HW-D-0625 1 HR. SHAFT WALL, CONCRETE SLAB



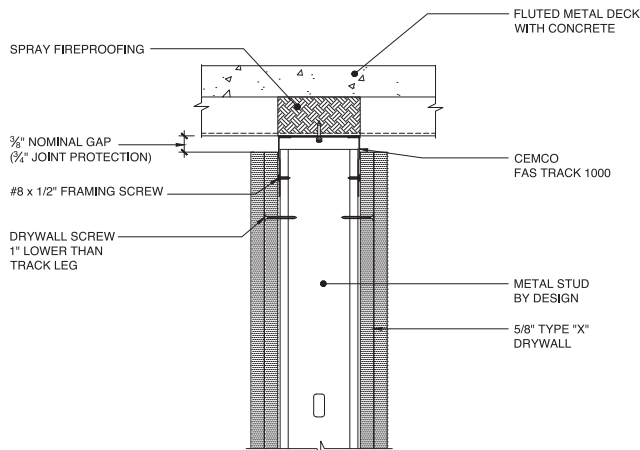
\*NOTE: DOUBLE LAYERS OF 5/8" DRYWALL FOR 2 HOUR FIRE RATING

- **HW-D-0514** 1 & 2 HR. Perpendicular to Flute Spray Applied Fireproofing
- **HW-D-0518** 1 & 2 HR. Standard Wall, Perpendicular to Fluted Deck
- **HW-D-0524** 1 & 2 HR. Standard Wall, Parallel & Directly Under Deck Flute, Configurations A & B
- **HW-D-0652** 1 & 2 HR. Standard Wall, Cantilevered Under Beam
- **HW-D-0551** 1 & 2 HR. Standard Wall, Centered Directly Under Beam
- **HW-D-0553** 1 & 2 HR. Standard Chase Wall, Perpendicular to Fluted Deck
- **HW-D-0620** 1 & 2 HR. Standard Wall, Parallel & Directly Under

Fluted Deck (Config A.)

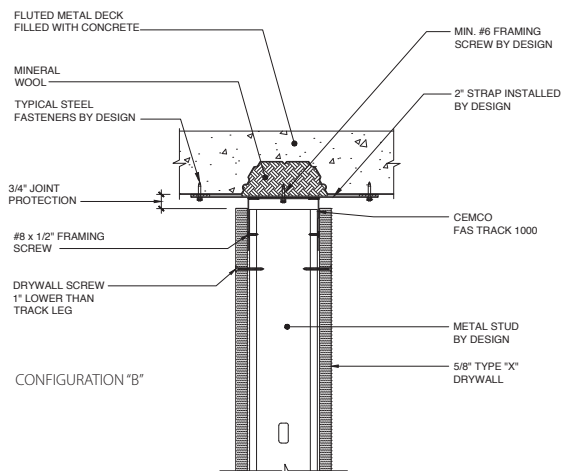
- **HW-D-0620** 1 & 2 HR. Standard Wall, Parallel & Offset Under Fluted Deck (Config. B)
- **HW-D-0554** 1 & 2 HR. Standard Chase Wall, Concrete Slab
- **HW-D-0624** 1 & 2 HR. Standard Wall, Concrete Slab
- **WW-D-0104** 1 & 2 HR. Vertical Tie In To Concrete Slab
- **BW-S-0024** 1 & 2 HR. Bottom of Wall - Static Joint
- **HW-D-0514** 2 HR. Standard Wall, Perpendicular to Fluted Deck
- **HW-D-0550** 2 HR. Standard Wall, Gypsum Wallboard Ceiling
- **HW-D-0573** 2 HR. Standard Wall, @ Fluted Deck Beam Penetration

### HW-D-0514 2 HR. PERPENDICULAR TO FLUTED DECK\*



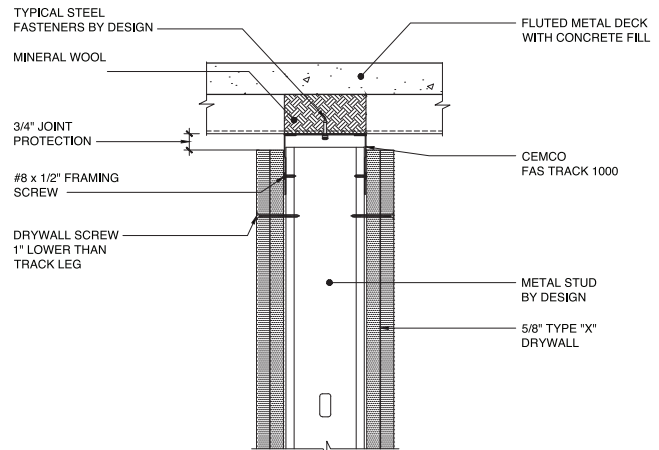
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

### HW-D-0524 1 HR. PARALLEL & DIRECTLY UNDER DECK FLUTE



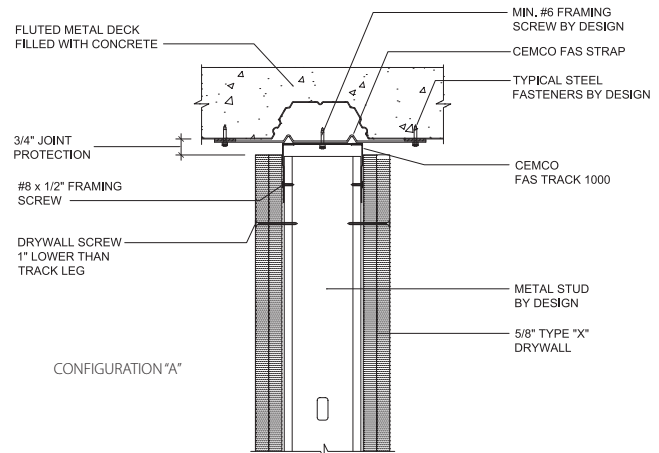
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

### HW-D-0518 2 HR. PERPENDICULAR TO FLUTED DECK



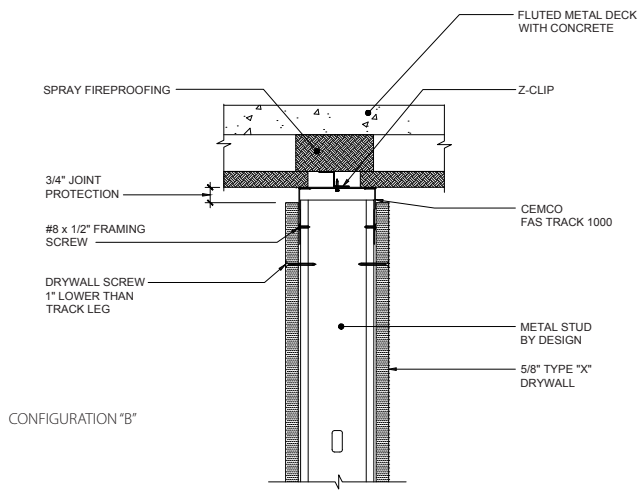
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

### HW-D-0524 2 HR. PARALLEL & DIRECTLY UNDER DECK FLUTE



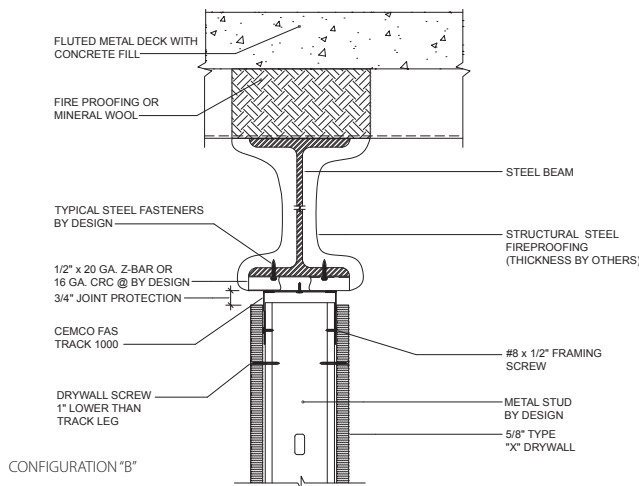
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

## HW-D-0514 STANDARD WALL, PERPENDICULAR TO FLUTED DECK



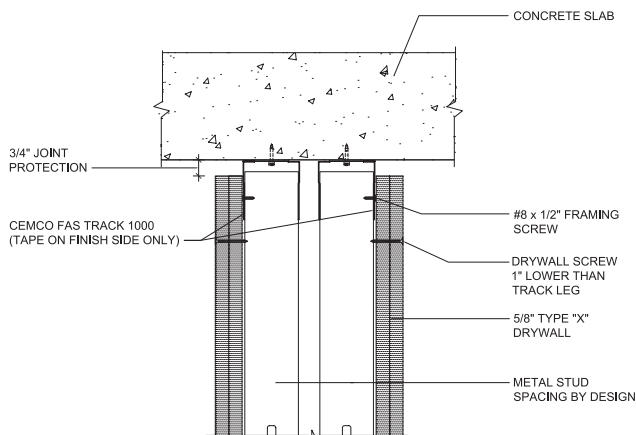
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

## HW-D-0551 1 HR. CENTERED DIRECTLY UNDER BEAM



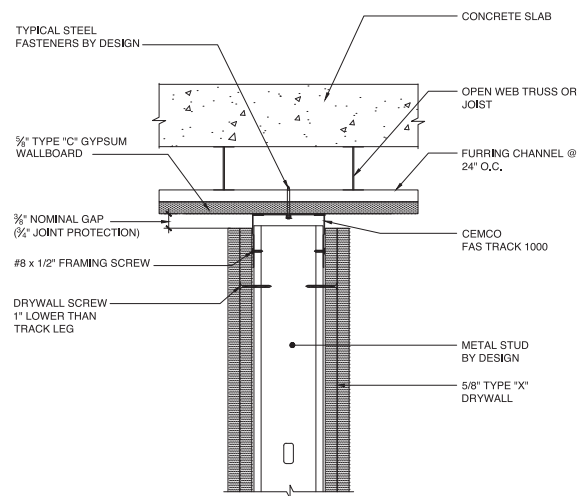
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

## HW-D-0554 2 HR. CHASE WALL, CONCRETE SLAB



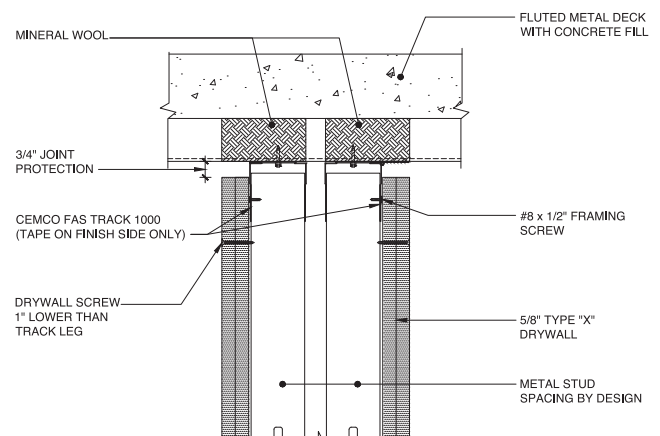
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

## HW-D-0550 2 HR. GYPSUM WALLBOARD CEILING\*



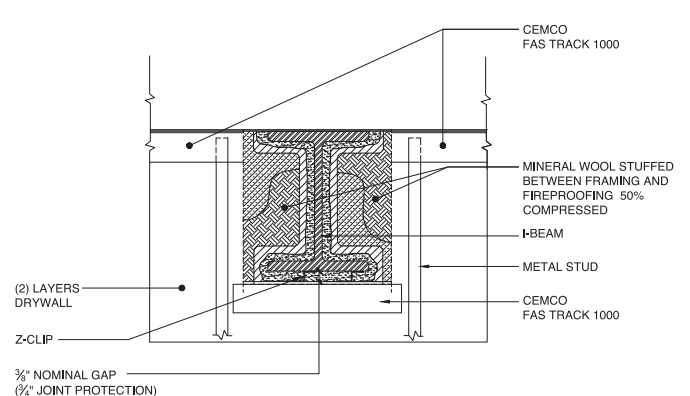
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

## HW-D-0553 2 HR. CHASE WALL, PERPENDICULAR TO FLUTED DECK



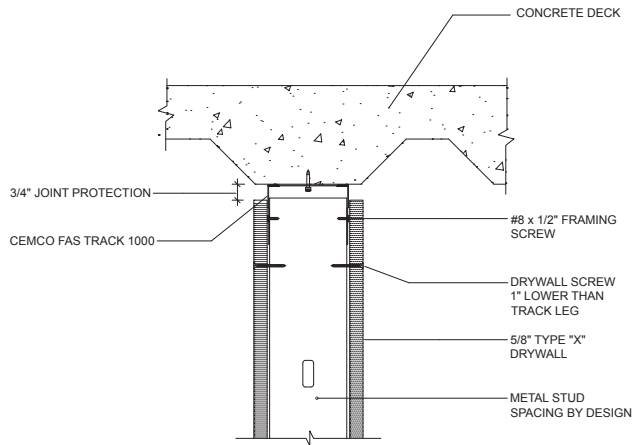
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

## HW-D-0573 1 & 2 HR. FLUTED DECK BEAM PENETRATION



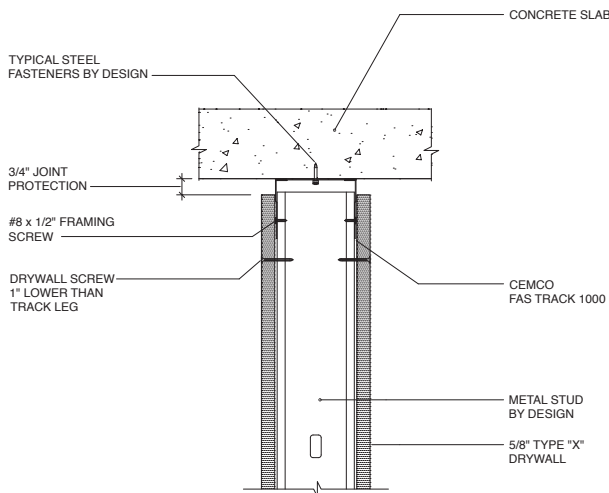
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

## HW-D-0620 1 HR. PARALLEL & DIRECTLY UNDER FLUTED DECK



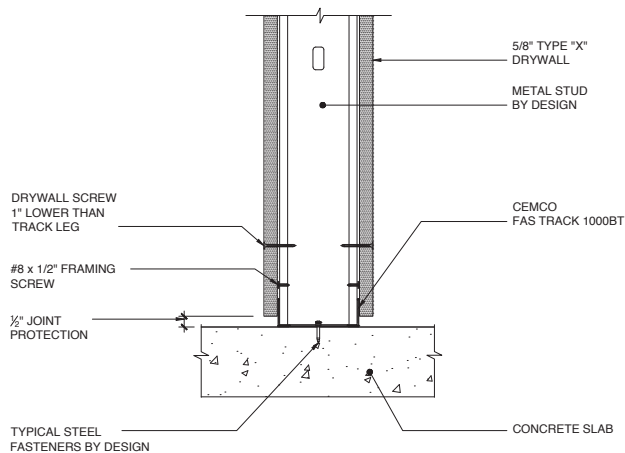
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

## HW-D-0624 1 HR. CONCRETE SLAB



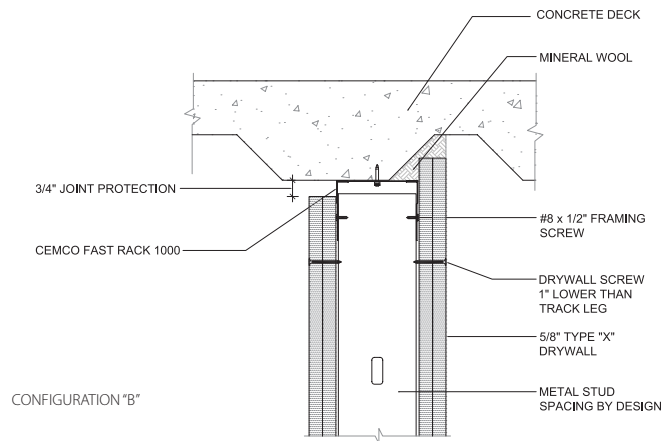
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

## BW-S-0024 2HR. BOTTOM WALL STATIC JOINT



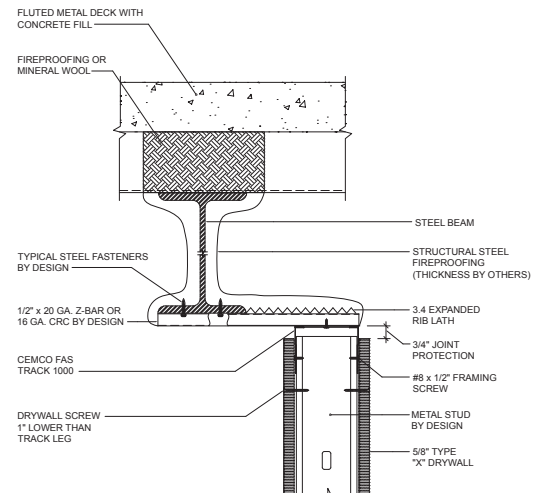
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

## HW-D-0620 2 HR. PARALLEL & OFFSET UNDER FLUTED DECK



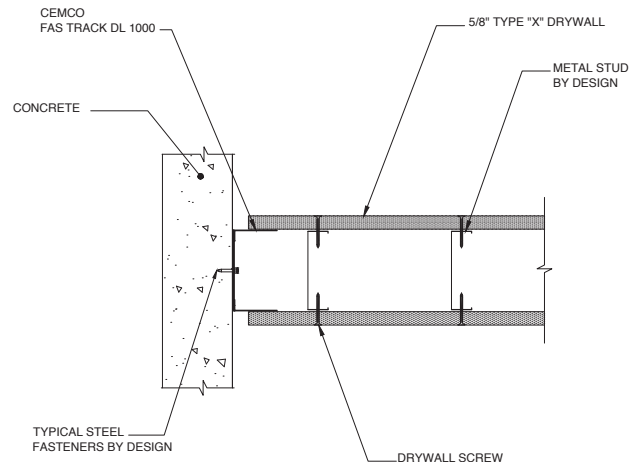
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

## HW-D-0652 1 HR. & 2 HR. CANTILEVERED UNDER BEAM\*



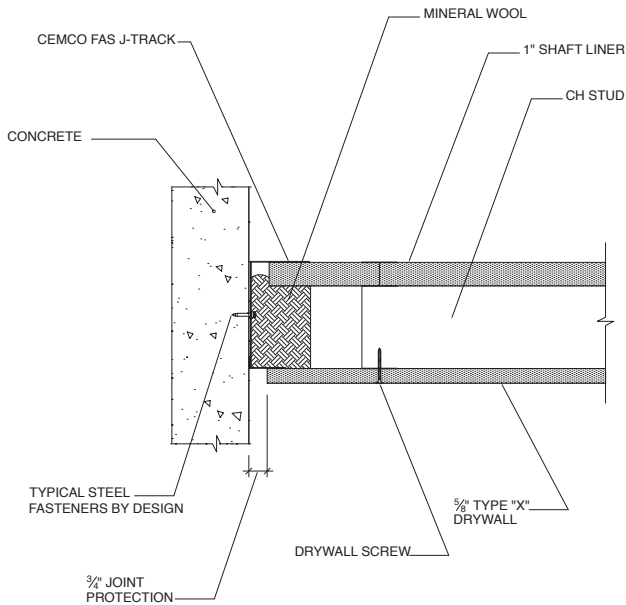
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

## WW-D-0104 2HR. VERTICAL TIE-IN TO CONCRETE SLAB



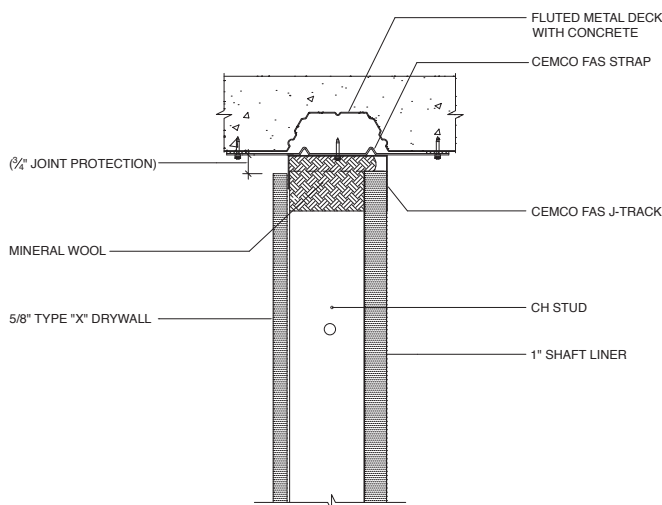
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

### WW-S-0061 1 HR. SHAFT WALL VERTICAL TIE IN TO CONCRETE SLAB



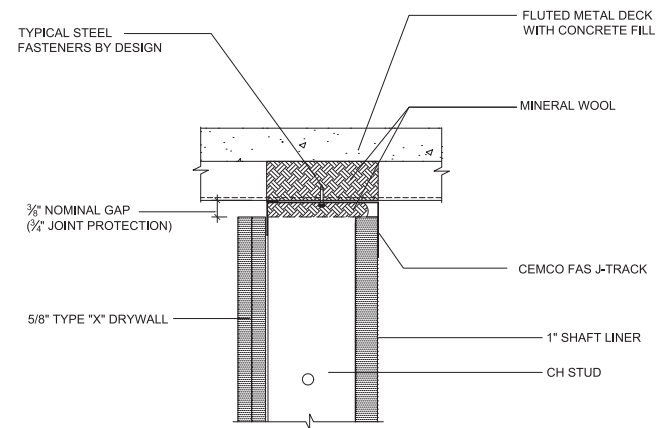
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

### HW-D-0524 2 HR. PERPENDICULAR TO FLUTED DECK\*



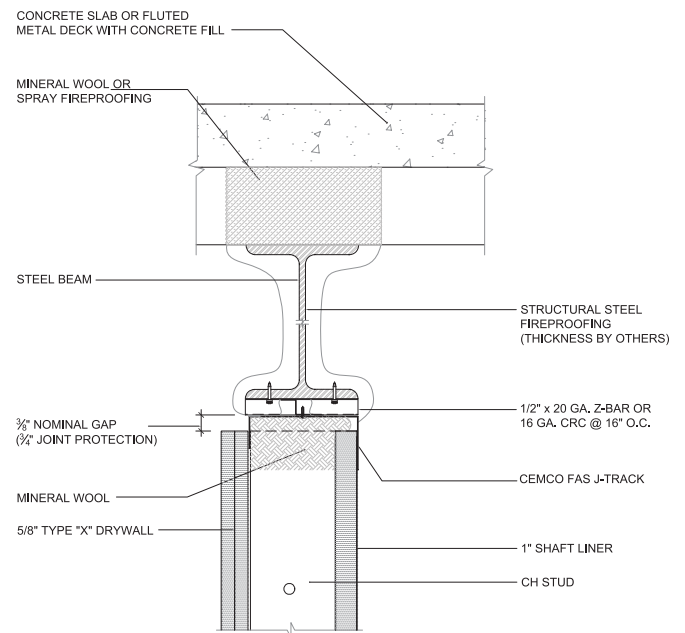
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

### HW-D-0525 2 HR. PERPENDICULAR TO FLUTED DECK\*



\*NOTE 1: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR  
\*NOTE 2: NO FIRE SPRAY REQUIRED

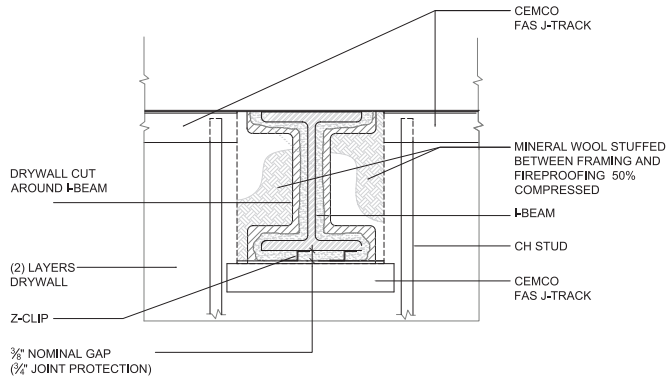
### HW-D-0622 2 HR. DIRECTLY UNDER BEAM



\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

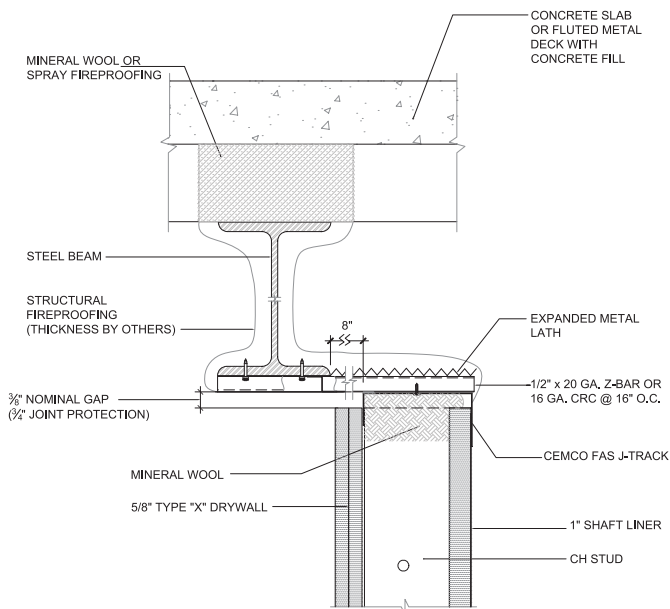


### HW-D-0623 2 HR. FLUTED DECK BEAM PENETRATION



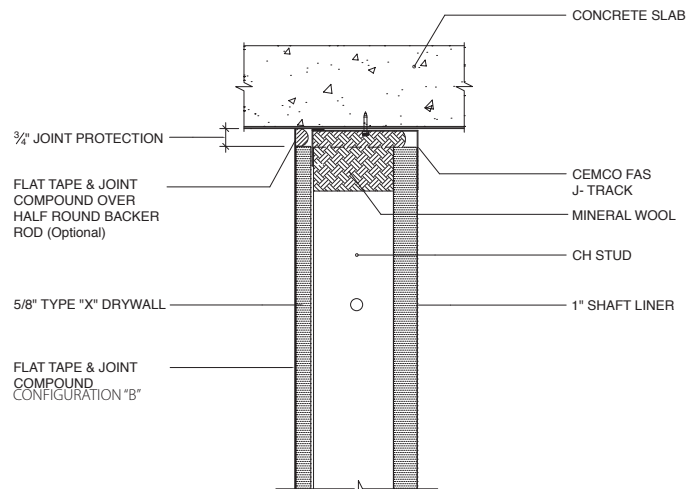
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

### HW-D-0653 2 HR. PARALLEL & CANTILEVER UNDER BEAM



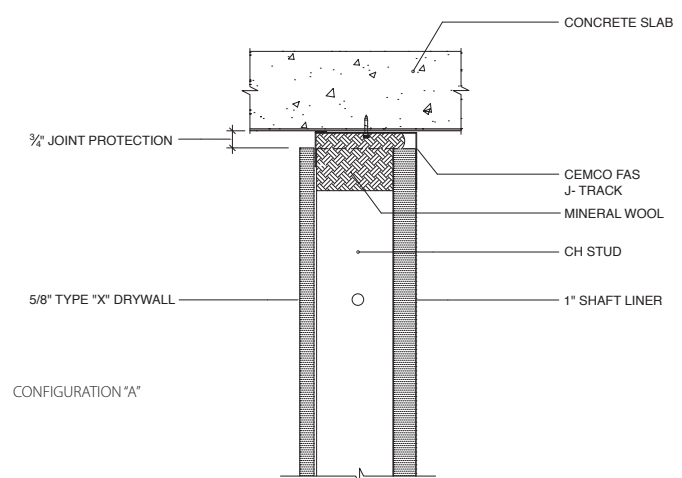
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

### HW-D-0625 1 HR. CONCRETE SLAB



\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

### HW-D-0625 1HR. SHAFT WALL, CONCRETE SLAB



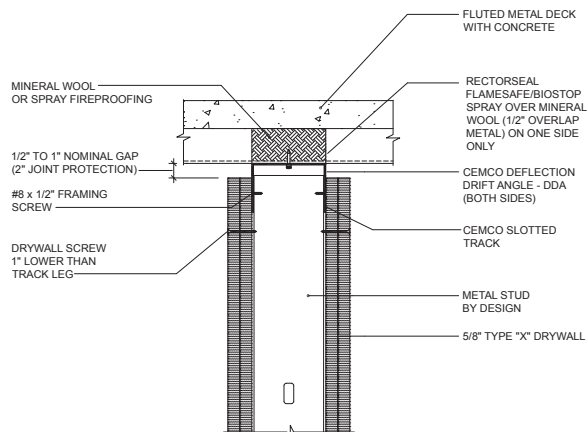
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

The standard Deflection Drift Angle (DDA) is a red  $\frac{3}{4}$ " x 2-1/2" steel/intumescent angle that will provide up to 2" unencumbered movement based on the following UL reports:

- **HW-D-0577** Standard Wall Perpendicular to Fluted Deck
- **HW-D-0524** Standard Wall, Parallel & Under Fluted Deck Configurations A & B
- **HW-D-0582** Standard Wall, Parallel to Beam Assembly Under Fluted Deck
- **HW-D-0580** Standard Chase Wall to Fluted Deck (DDA)\*
- **HW-D-0579** Standard Wall Off Centered Under Beam
- **HW-D-0652** Standard Wall Cantilevered Under Beam
- **HW-D-0579** Standard Wall Directly Under Beam/Slab Bypass at I-Beam
- **HW-D-0596** Standard Wall at Concrete Stairwell Slab Bypass
- **HW-D-0620** Standard Wall Parallel to Fluted Deck/Directly Under Flute Configurations A & B
- **HW-D-0583** Standard Wall Fluted Deck Perpendicular to I-Beam Penetration
- **HW-D-0584** Shaft Wall Perpendicular to Under Fluted Deck (DDA)\*
- **HW-D-0524** Shaft Wall Offset and Parallel to Under Fluted Deck Configurations A & B
- **HW-D-0622** Shaft Wall Under Beam
- **HW-D-0653** Shaft Wall Cantilever Under Beam
- **HW-D-0621** Shaft Wall Concrete Slab Bypass
- **HW-D-0563** Shaft Wall Parallel to Beam at Fluted Deck\*
- **HW-D-0623** Shaft Wall at Fluted Deck I-Beam Penetration
- **HW-D-0576** Concrete Deck
- **HW-D-0585** Shaft Wall at Concrete Deck
- **HW-D-0581** Chase Wall at Concrete Deck\*

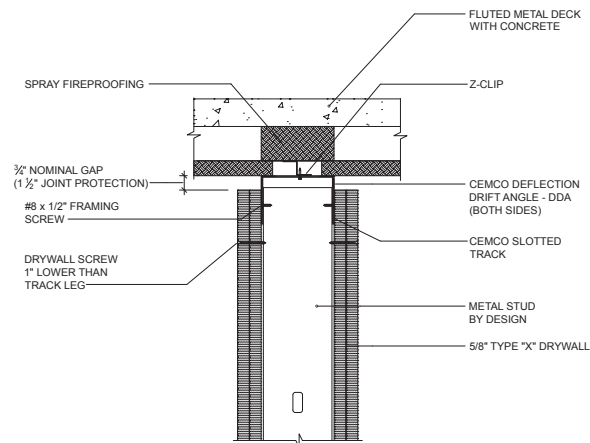
\*Detail not shown in catalog, refer to [www.UL.com](http://www.UL.com).

### HW-D-0577 2HR. PERPENDICULAR TO FLUTED DECK



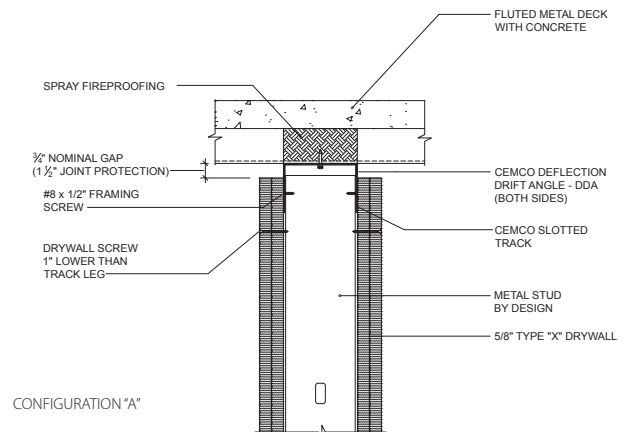
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

### HW-D-0514 STANDARD WALL, PERPENDICULAR TO FLUTED DECK



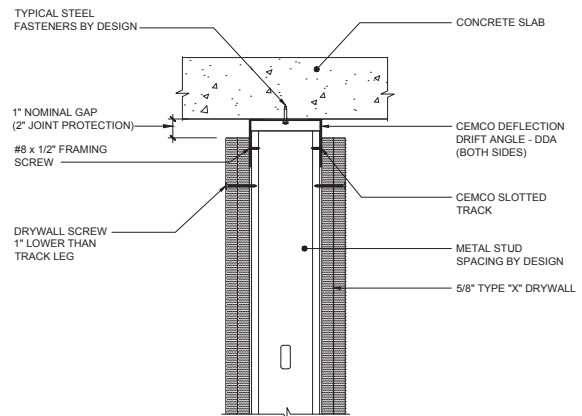
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

### HW-D-0514 STANDARD WALL, PERPENDICULAR TO FLUTED DECK



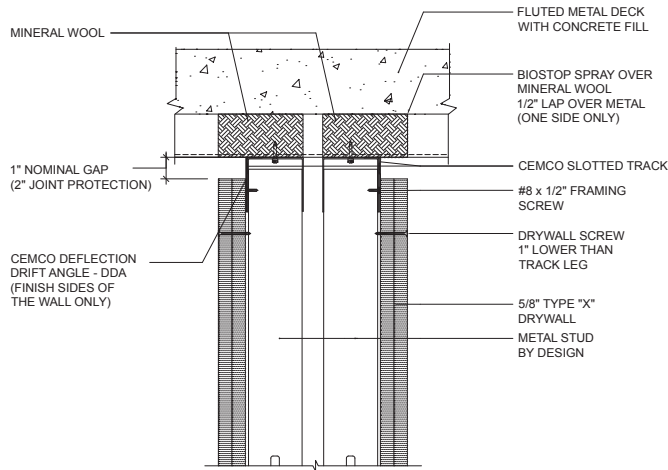
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

### HW-D-0576 2HR. STANDARD WALL, CONCRETE SLAB



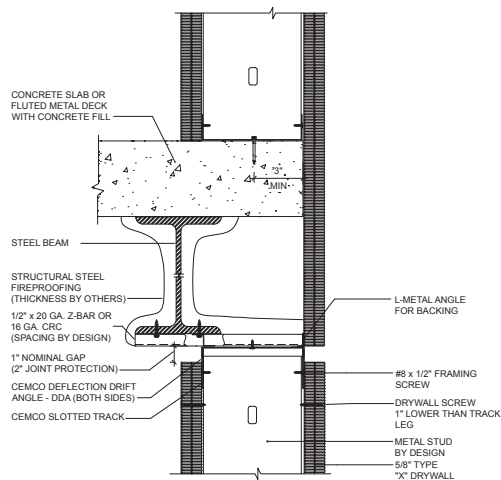
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

### HW-D-0580 2HR. STANDARD CHASE WALL PERPENDICULAR TO FLUTED DECK



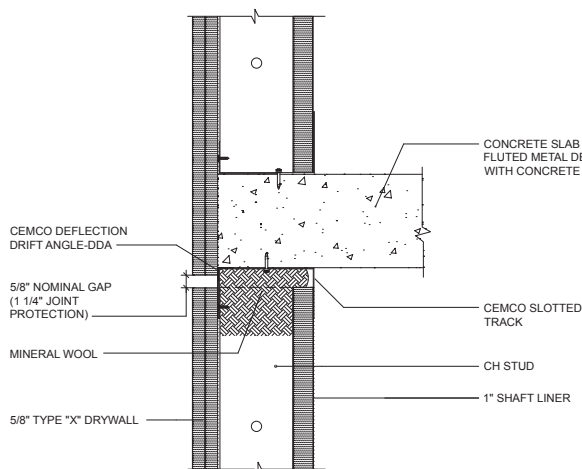
\*NOTE: SINGLE LAYER OF 5/8" TYPE 'X' DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

### HW-D-0579 2HR. STANDARD WALL, UNDER STAIRWELL SLAB BYPASS @ BEAM



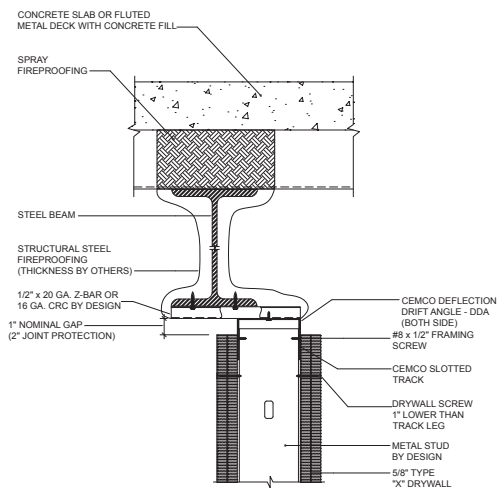
\*NOTE: SINGLE LAYER OF 5/8" TYPE 'X' DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

### HW-D-0621 2HR. SHAFT WALL, CONCRETE SLAB BYPASS



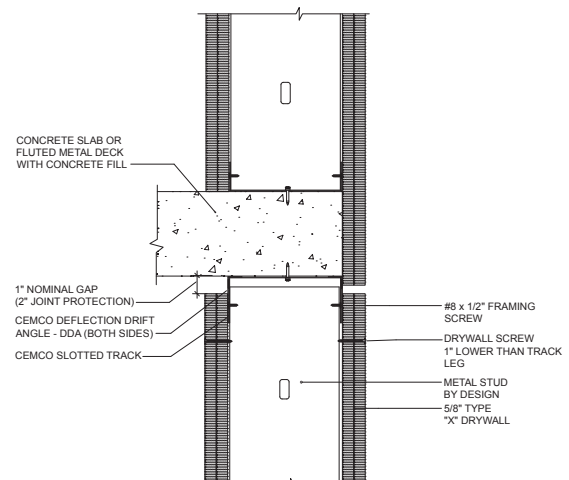
\*NOTE: SINGLE LAYER OF 5/8" TYPE 'X' DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

### HW-D-0579 2HR. STANDARD WALL, OFFSET & PARALLEL UNDER BEAM



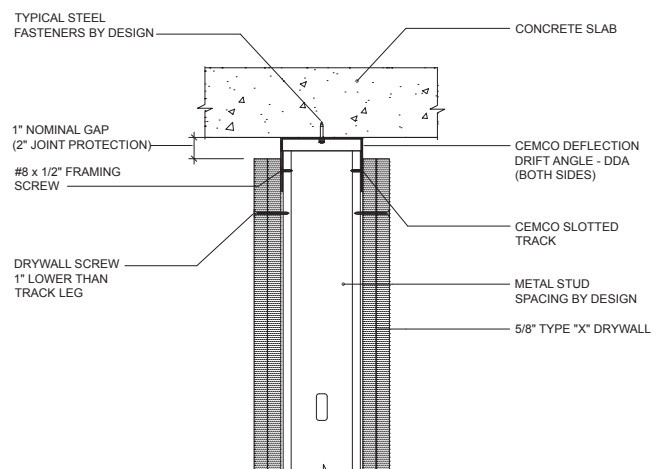
\*NOTE: SINGLE LAYER OF 5/8" TYPE 'X' DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

### HW-D-0596 2HR. STANDARD WALL, @ CONCRETE STAIRWELL SLAB BYPASS



\*NOTE: SINGLE LAYER OF 5/8" TYPE 'X' DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

### HW-D-0576 2HR. STANDARD WALL, CONCRETE SLAB



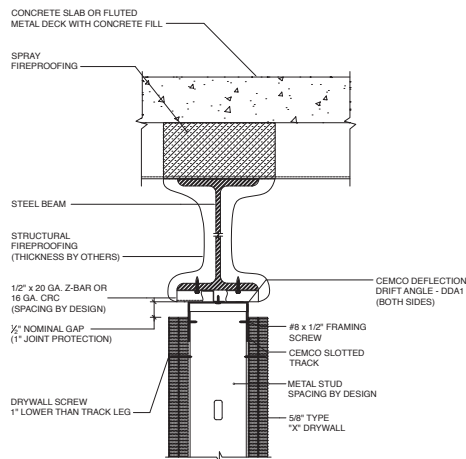
\*NOTE: SINGLE LAYER OF 5/8" TYPE 'X' DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

DDA-1 is a RED 5/8" x 1-1/4" steel/intumescent angle that will provide 1" unencumbered movement for standard walls and shaft walls as listed on the following UL reports:

- **HW-D-0514** Perpendicular to Flutes (Spray Fireproofing Fill)
- **HW-D-0515** Concrete Slab\*
- **HW-D-0518** Perpendicular to Fluted Deck\*
- **HW-D-0524** Parallel to Flute (FAS Strap)
- **HW-D-0550** Gypsum Wallboard Ceiling\*
- **HW-D-0551** Centered Under Beam\*
- **HW-D-0553** Chase Wall at Pan Deck\*
- **HW-D-0554** Chase Wall at Concrete Slab\*
- **HW-D-0573** Perpendicular I-Beam Penetration\*
- **HW-D-0620** Parallel to Flute directly Under Flute
- **HW-D-0652** Cantilever Fireproofing Under Beam
- **HW-D-0525** Perpendicular to Flute Shaft Wall\*
- **HW-D-0623** Beam Penetration at Shaft Wall
- **HW-D-0622** Shaft Wall under I-Beam
- **HW-D-0653** Shaft Wall Cantilever Under Beam
- **HW-D-0556** Parallel to Beam\*
- **HW-D-0585** Shaft Wall at Concrete Deck
- **HW-D-0600** Cantilever Under Beam
- **HW-D-0598** Shaft Wall Cantilever Under Beam

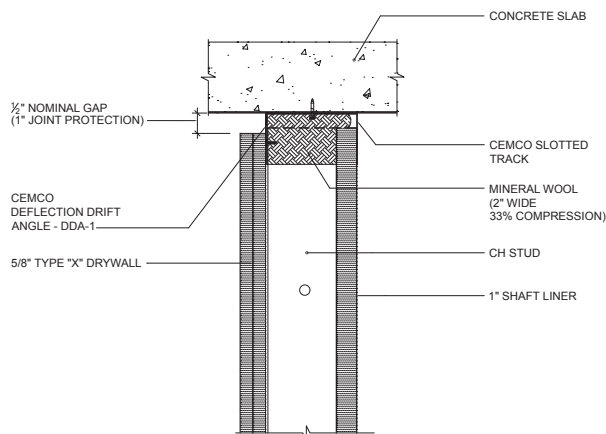
\*Not all details are shown in catalog refer to cemcosteel.com for all details

## HW-D-0551 2HR. PARALLEL & CENTERED DIRECTLY UNDER BEAM



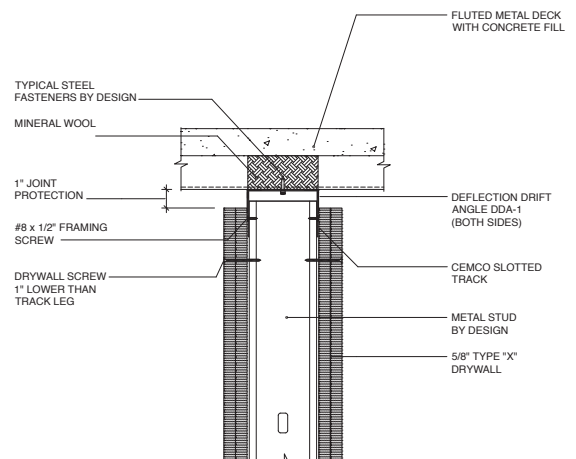
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

## HW-D-0585 2HR. SHAFT WALL, CONCRETE SLAB



\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

## HW-D-0518 PERPENDICULAR TO FLUTED DECK



\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

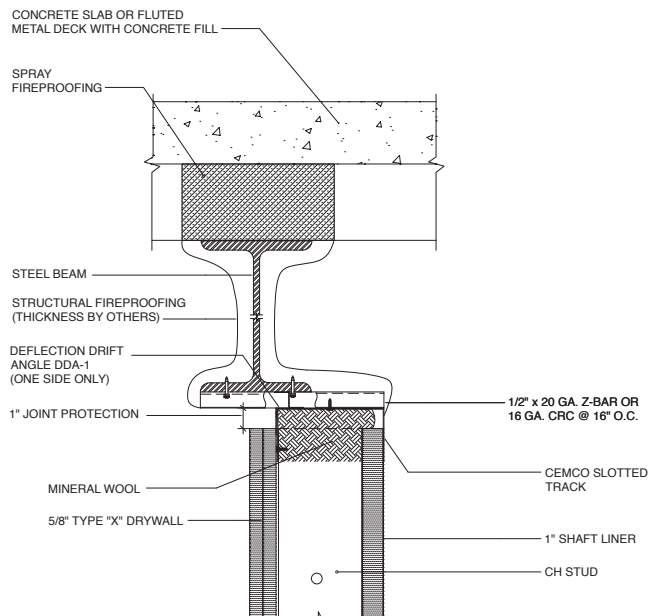


# Typical Details | Deflection Drift Angle-1 (DDA-1)

Fluted Pan Deck Applications for 1" Overall Movement

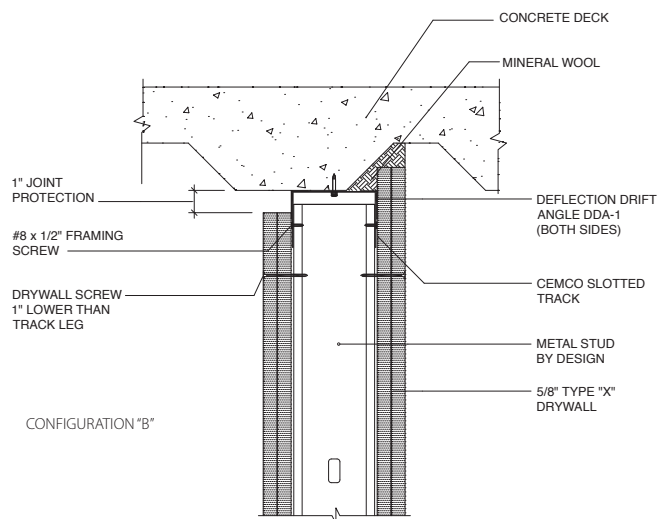


## HW-D-0622 SHAFT WALL, OFFSET UNDER BEAM



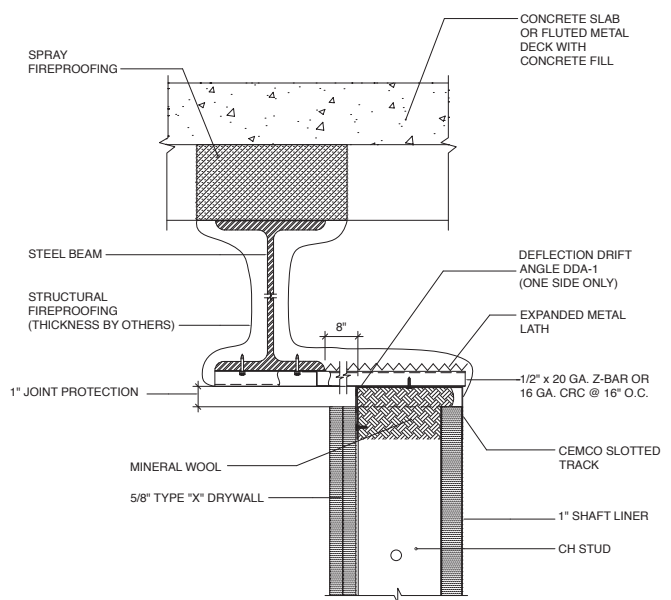
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

## HW-D-0620 PARALLEL & OFFSET UNDER FLUTED DECK



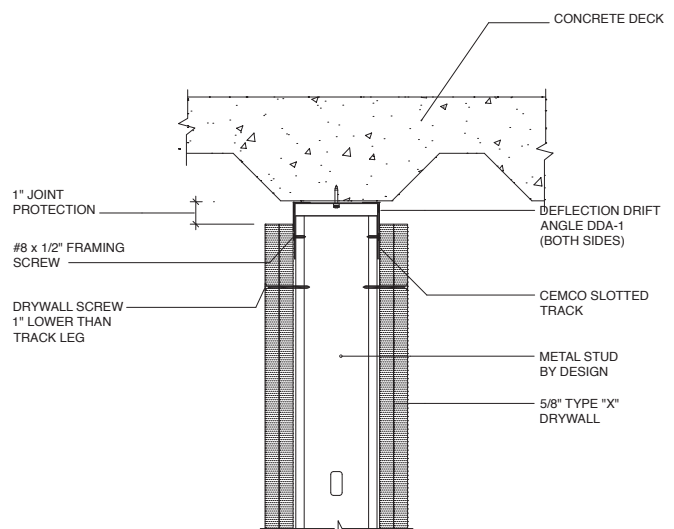
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

## HW-D-0653 SHAFT WALL, PARALLEL & CANTILEVER UNDER BEAM



\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

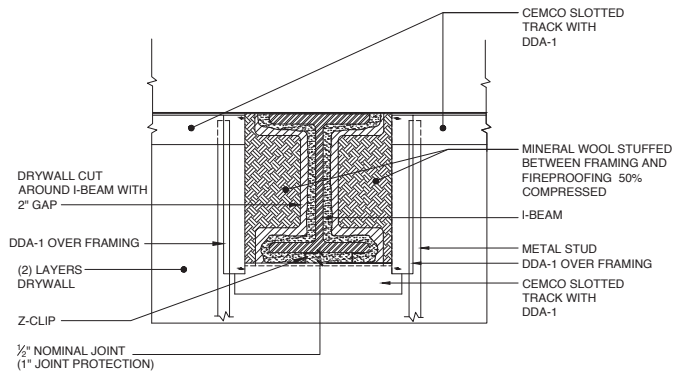
## HW-D-0620 PARALLEL AND DIRECTLY UNDER FLUTED DECK



\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

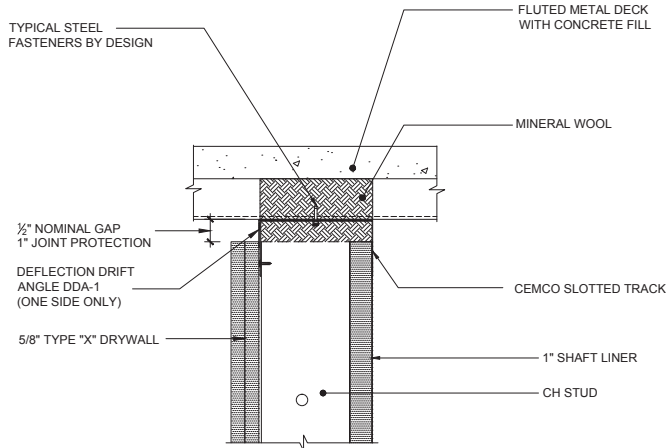


### HW-D-0573 STANDARD WALL, @ FLUTED DECK BEAM PENETRATION



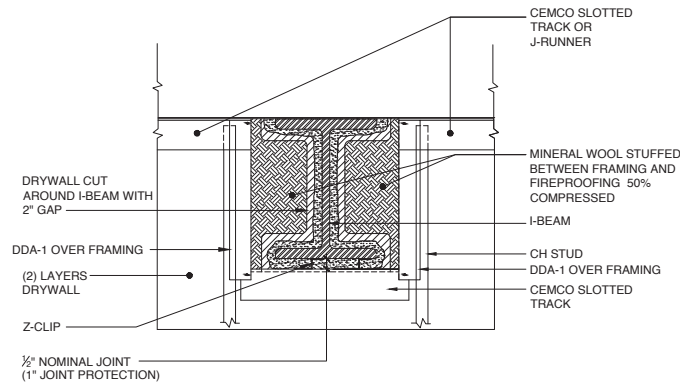
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

### HW-D-0525 SHAFT WALL, PERPENDICULAR TO FLUTED DECK



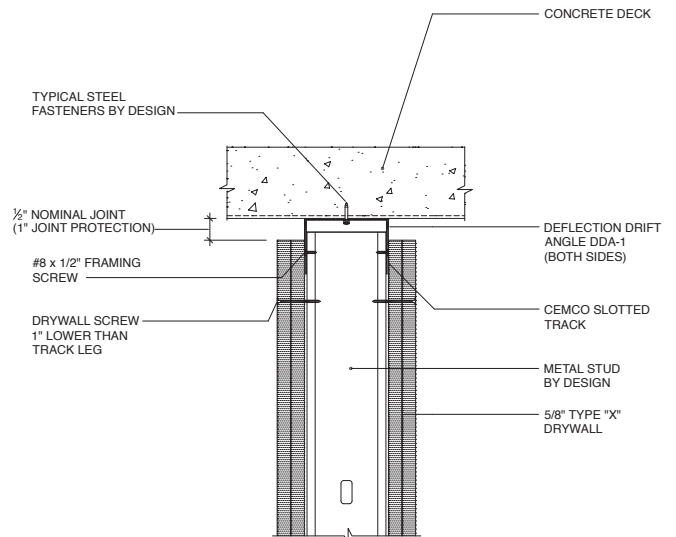
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

### HW-D-0623 SHAFT WALL, @ FLUTED DECK BEAM PENETRATION



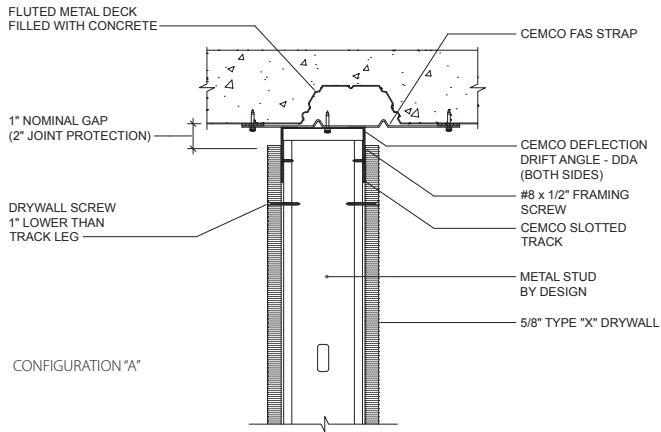
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

### HW-D-0515 STANDARD WALL, CONCRETE DECK



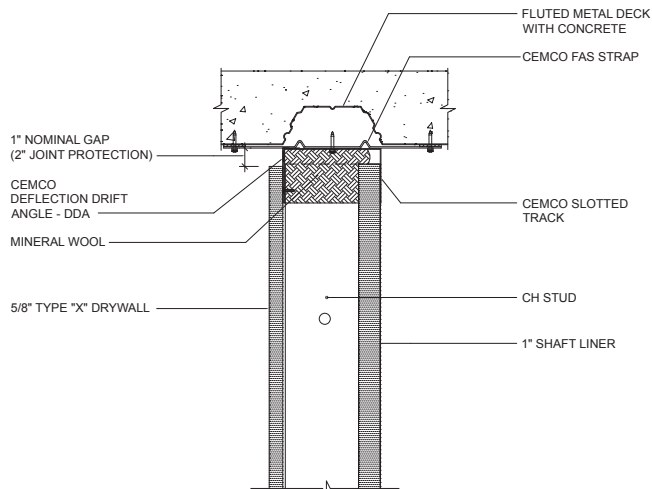
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

## HW-D-0524 1HR. OFFSET & PARALLEL UNDER FLUTED DECK



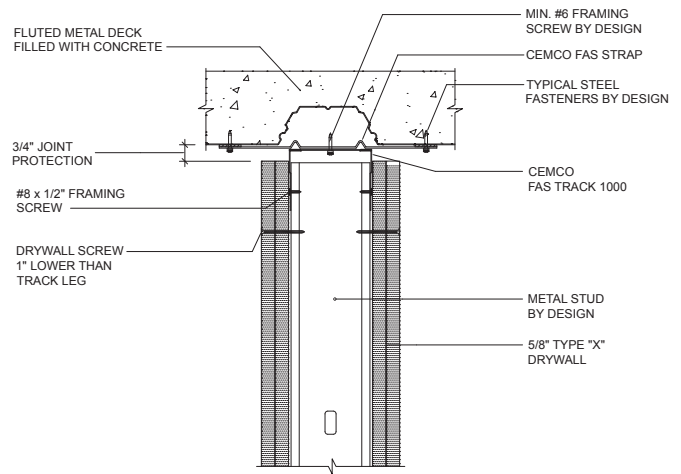
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

## HW-D-0524 1 HR. SHAFT WALL, PARALLEL & DIRECTLY UNDER DECK FLUTE



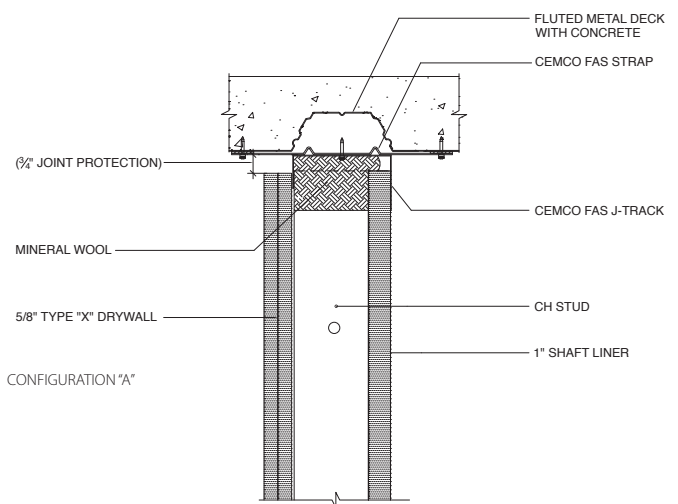
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

## HW-D-0524 2 HR. PARALLEL & DIRECTLY UNDER DECK FLUTE



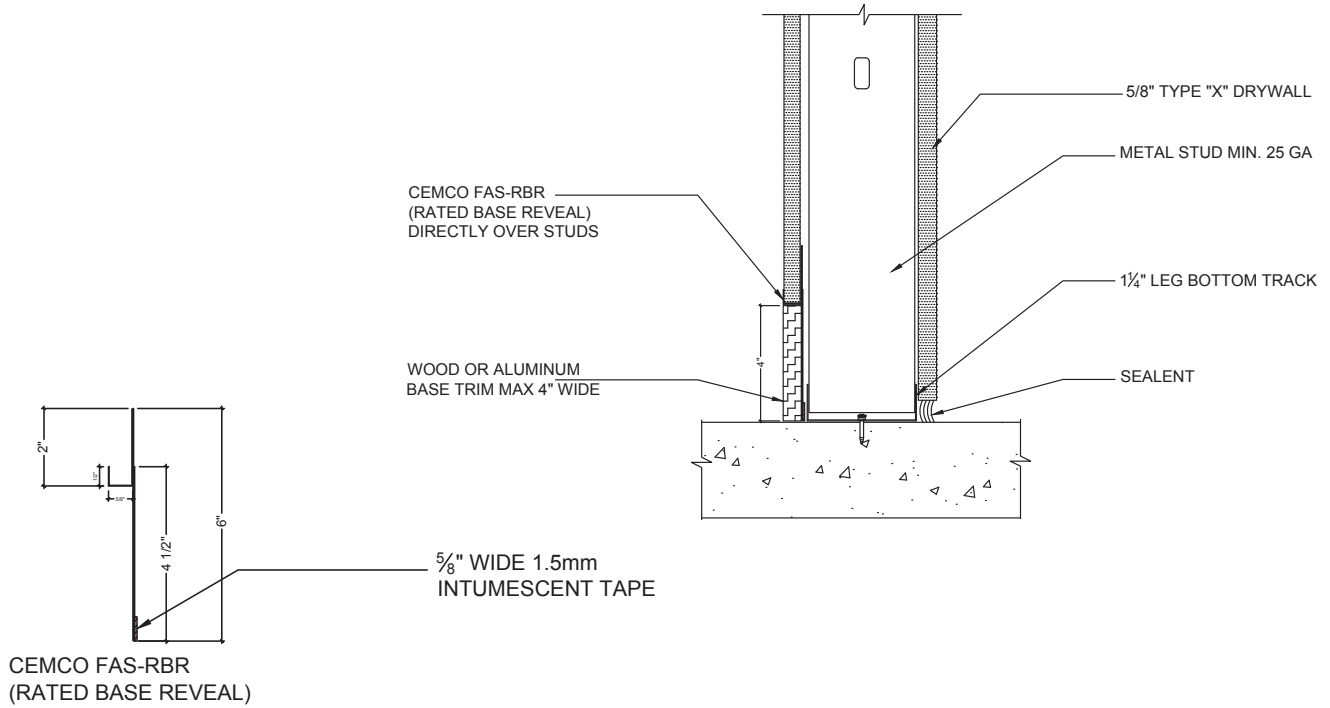
\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

## HW-D-0524 2 HR. SHAFT WALL, PARALLEL & DIRECTLY UNDER DECK FLUTE

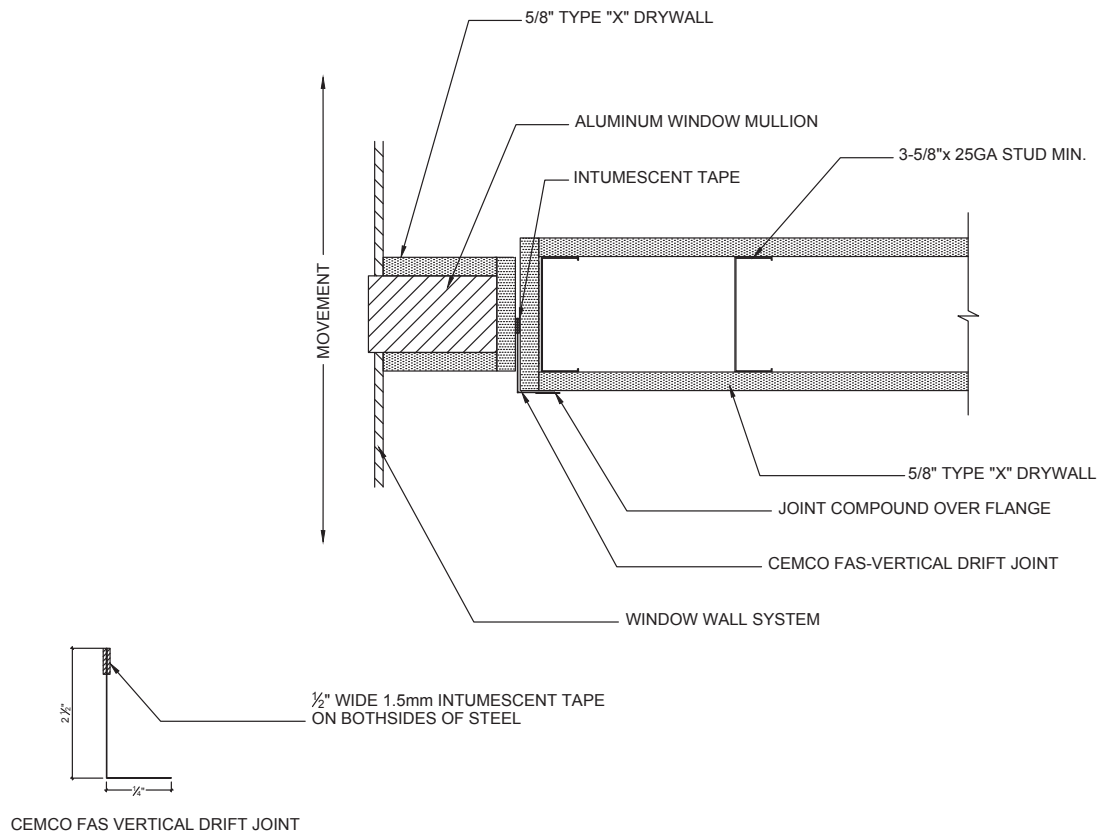


\*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

BW-S-0036 FIRE RATED BASE REVEAL DETAIL



WW-D-0182 WALL TO WALL VERTICAL DRIFT JOINT





A series of horizontal lines for taking notes, spanning the width of the page below the header.







# Expanding Your Solutions

## **Corporate Headquarters**

13191 Crossroads Parkway North, Suite 325, City of Industry, CA 91746

**P:** 800.775.2362 | **F:** 626.330.7598

## **Main Manufacturing Facility**

263 North Covina Lane, City of Industry, CA 91746

**P:** 800.775.2362 | **F:** 626.330.7598

## **Northern California Manufacturing Facility**

1001-A Pittsburg Antioch Hwy, Pittsburg, CA 94565

**P:** 925.473.9340 | **F:** 925.473.9341

## **Denver Colorado Manufacturing Facility**

490 Osage Street, Denver, CO 80204

**P:** 303.572.3626 | **F:** 303.572.3627

## **Fort Worth Texas Manufacturing Facility**

8600 Will Rogers Blvd, Fort Worth, TX 76140

**P:** 817.568.1525 | **F:** 817.568.2759

[www.cemcosteel.com](http://www.cemcosteel.com)

