

JOINT FIRESTOPPING & SOUND CONTROL



PRODUCT CATALOG



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ASTM/Standards Declaration

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%

California's Proposition 65 Warning

California's Safe Drinking Water and Toxic Enforcement Act of 1986 – commonly referred to as Proposition 65 ("Prop 65") (27 Cal. Code Reg. § 25600, et seq.) – has recently changed, requiring manufacturers to provide a warning based on its knowledge about the presence of one or more of the almost 900 listed chemicals which are known to the State of California to cause cancer and birth defects, or other reproductive harm. With a few exceptions, manufacturers operating in the state of California as well as those entities who distribute, import, package, and/or supply products into the State of California are now required provide a "clear and reasonable" warning to consumers that their products may contain one or more of these listed chemicals or compounds. The complete list is available at www.P65Warnings.ca.gov.

In compliance with the new requirements, we are notifying each of our customers that MarinoWare products contain Nickel (metallic) and/or other chemicals listed which are known to the State of California to cause cancer and birth defects or other reproductive harm. Safety data sheets from our major suppliers are available from MarinoWare on our website at www.marinoware.com.

Steel Thickness

Color Code (painted on ends)	Mil Thickness	Design Thickness (in.) ¹	Minimum Thickness (in.) ^{1,2}
None	18	0.0188 (.48 mm)	0.0179 (.45 mm)
White	33	0.0346 (.88 mm)	0.0329 (.84 mm)
Yellow	43	0.0451 (1.15 mm)	0.0428 (1.09 mm)
Green	54	0.0566 (1.44 mm)	0.0538 (1.37 mm)
Orange	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.

ASTM & Code Standards

- ASTM A653/653M, A924/924M, A1003/1003M, C645 and C754.
- IBC: 2012, 2015, 2018
- CBC: 2013, 2016
- 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.

Patents & Intellectual Property Rights

FAS Track, DDA and HOTROD products, or installations incorporating these products, may be covered by one or more of the following U.S. Patent #'s, as well as several other patents pending:

- 7,617,643
- 8,281,552 B2
- 8,322,094
- 8,353,139
- 8,595,999
- 8,640,415
- 8,671,632
- 8,793,947
- 8,938,922
- 9,045,899
- 9,085,895
- 9,127,454
- 9,290,932
- 9,371,644
- 9,481,998
- 9,551,148
- 9,551,148 B2
- 9,616,259
- 9,637,914
- 9,683,364
- 9,739,052
- 9,752,318 B2
- 9,879,421
- 9,931,527
- 9,973,319
- 10,000,923
- 10,011,983
- 10,077,550
- 10,184,246

Warranty & Limitations

All products presented herein are warranted to the buyer to be free from defects in material and workmanship. The foregoing warranty is non-assignable and in lieu of and excludes all other warranties not expressly set forth herein, whether express or implied by operation of law or otherwise, including but not limited to any implied warranties of merchantability or fitness for a particular purpose. All details and specifications presented herein are intended as a general guide for the use of MarinoWARE® framing systems. These products should not be used without evaluation by a qualified engineer or architect to determine

MarinoWARE® assumes no responsibility for failure resulting from use of its details or specifications, or for failure resulting from improper application or installation of these products.

Governing Law

All issues arising in connection with your order and all transactions associated with it shall be interpreted according to the laws of the State of New Jersey, and all actions or other proceedings arising out of such issues shall be brought only in Superior Court, State of New Jersey, County of Essex, or United States District Court for the District of New Jersey. No action may be brought more than one year after accrual of the cause of action therefore.



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Product Description

MarinoWARE HOTROD XL is a fire rated wall mount deflection bead that provides 1- and 2-hour fire-ratings for both dynamic and static joints **for both fluted deck and concrete assemblies** according to **UL-2079 5th edition** (for both standard walls and shaft walls) and is sound tested according to ASTM E90. Sound Reports available upon request.

- **HOTROD XL** provides BOTH 1- and 2-hour fire ratings in ONE PROFILE and provides an L-rating of less than 1 CFM/Lin Ft for ambient and 400 degrees F.
- **HOTROD XL** combines HOTROD compressible firestopping foam with an easy to install finish vinyl drywall accessory for a single-step application.
- **HOTROD XL** has a pink perforated attachment flange (mud leg) that is easily identified by the inspector as a UL certified firestopping accessory and a white vinyl flexible leg that conceals the compressible firestopping foam that can be painted.
- **HOTROD XL** has no installation temperature or humidity restrictions.
- **HOTROD XL** can be pre-installed to the front or back side of the drywall, to eliminate any post firestop installation work after the drywall is installed.

HOTROD XL Installation: Install drywall no more than 3/4" down from concrete/adjoining structure. Install the HOTROD XL with 847 Spray Adhesive and or staples attaching the perforated leg with 1/2" staples every 6-8". The top edge of white vinyl flexible leg is designed to come in contact with the adjoining structure and provide a flexible joint fill material. If used on an exposed wall assembly, apply joint compound over the perforated mud leg and prior to the final sanding remove the tear off strip for a clean and crisp finish. HOTROD XL is designed to be attached to the drywall and compressed against the overhead structure. The flexible vinyl leg conceals the compressible foam and is paintable. For butt joints: white flexible leg must be able to maintain moderate contact while the black foam must remain in contact with a maximum 1/4" compression. Once properly installed HOTROD XL will provide 1/2" compression and 3/16" extension without cracking at the head-of-wall, bottom-of-wall and wall-to-wall joints.

Finishing: If exposed always use a high quality paint if unexposed no finishing is required.

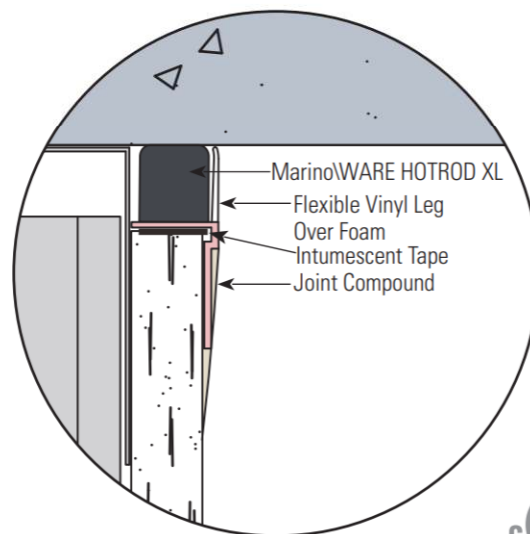
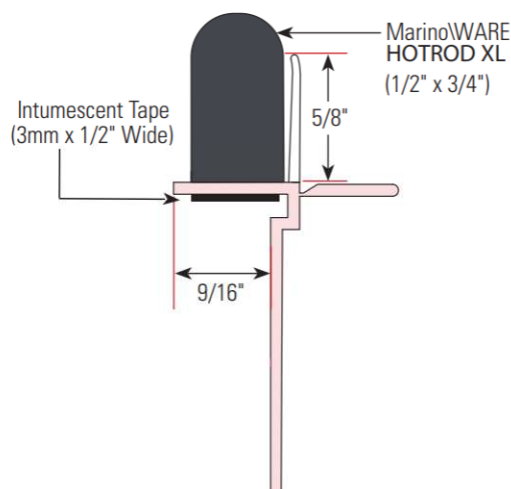
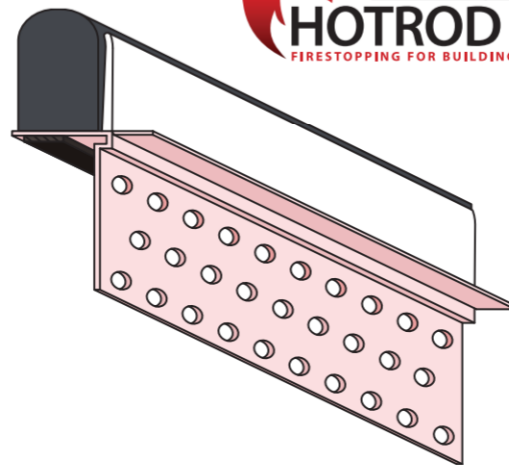
Advantages: Composite vinyl/intumescent firestopping accessory that is fully cured. Comes in 10' lengths with a 5/16" tear off leg that acts as a guide to apply joint compound without masking off adjoining surfaces. Made from rust proof, dent resistant PVC to reduce jobsite and handling damage. Does not contain cellulose, a potential food source for mold, and provides an unlimited shelf life.

Packaging

- 10'-0" lengths; 10 pieces per box; 30 boxes per pallet.
- When properly stored indoors, and in original packaging HOTROD XL will not breakdown and has no expiration date.

ASTM & Code Standards

- ASTM E 1966: Standard Test Method of Fire Tests of Firestop Systems – UL 2079 5th Edition 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.
- Intumescent Firestopping tested per ASTM E 84 UL723, Flame Spread 5, Smoke Index 5.
- UL listings/approvals – HW-D-0624; HW-D-0625; HW-D-0554; HW-D-0550; BW-S-0024; WW-D-0104, HW-D-0514; HW-D-0518; HW-D-0524; HW-D-0652; HW-D-0620; HW-D-0573; HW-D-0525; HW-D-0553; HW-D-0621; WW-S-0061.
- **U.S. Patent No. US 9,683,364 and US 10,184,246**

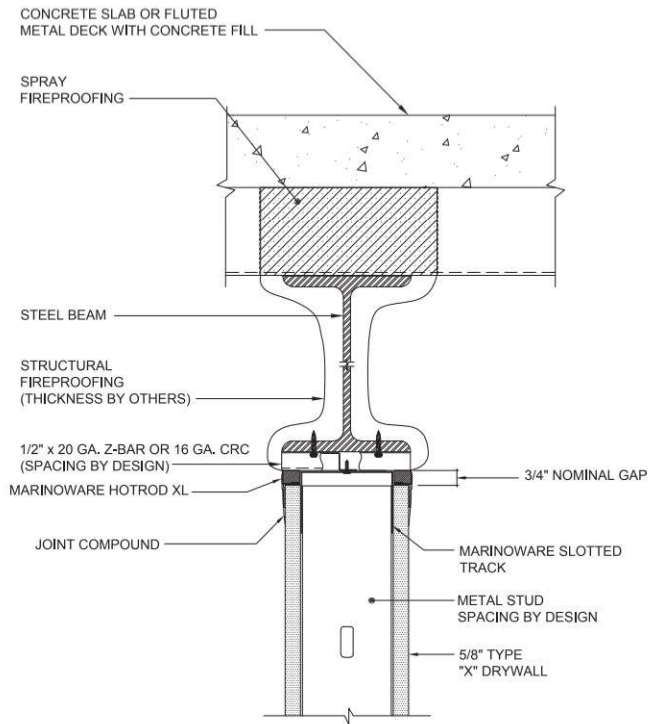


For more information, please contact MarinoWARE® Technical Services at 866.545.1545

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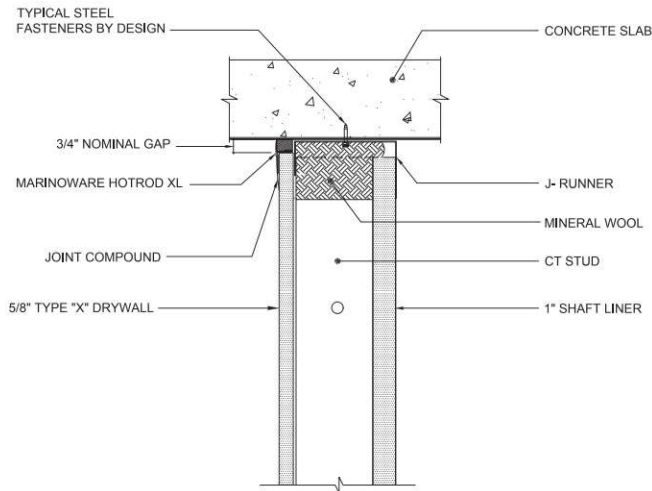


HW-D-0551 1 & 2HR PARALLEL & CENTERED DIRECTLY UNDER BEAM



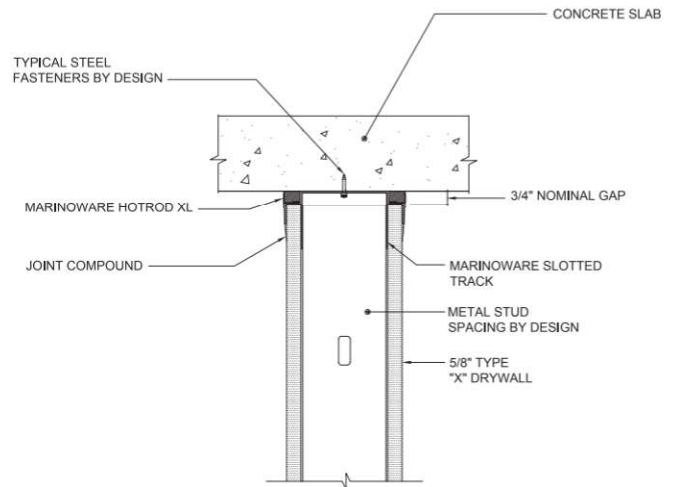
*NOTE: SINGLE LAYER OF 5/8\" TYPE \"X\" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0625 1 & 2HR SHAFT WALL, CONCRETE SLAB



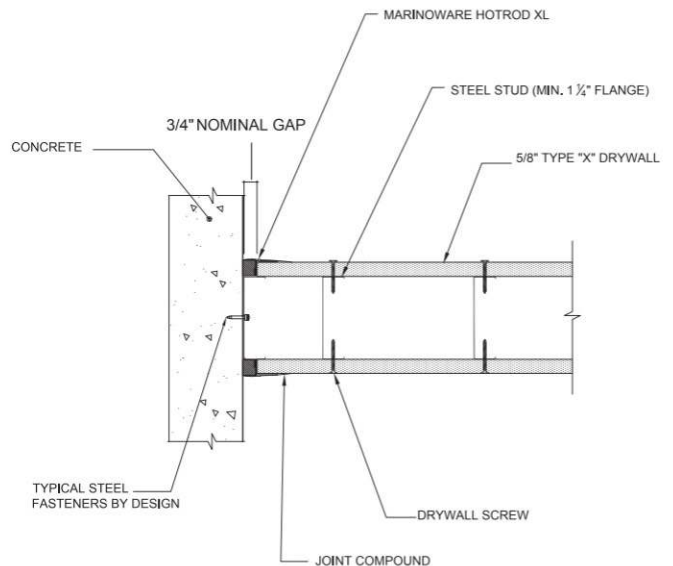
*NOTE: SINGLE LAYER OF 5/8\" TYPE \"X\" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0624 1 & 2HR STANDARD WALL, CONCRETE SLAB



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

WW-D-0104 1 & 2HR VERTICAL TIE-IN TO CONCRETE SLAB

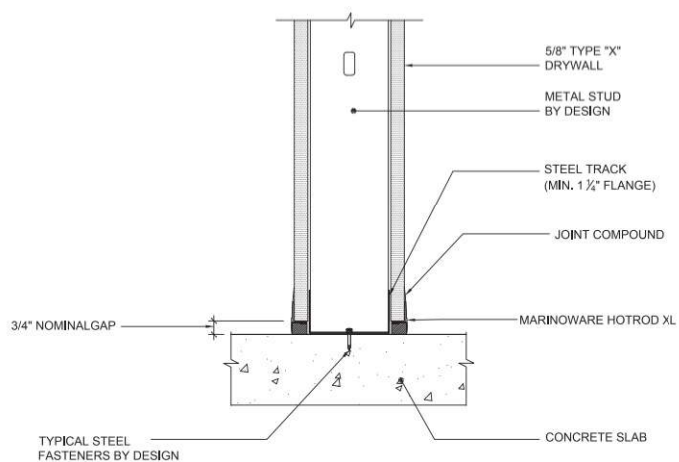


*NOTE: SINGLE LAYER OF 5/8\" TYPE \"X\" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

Typical Details | HOTROD XL

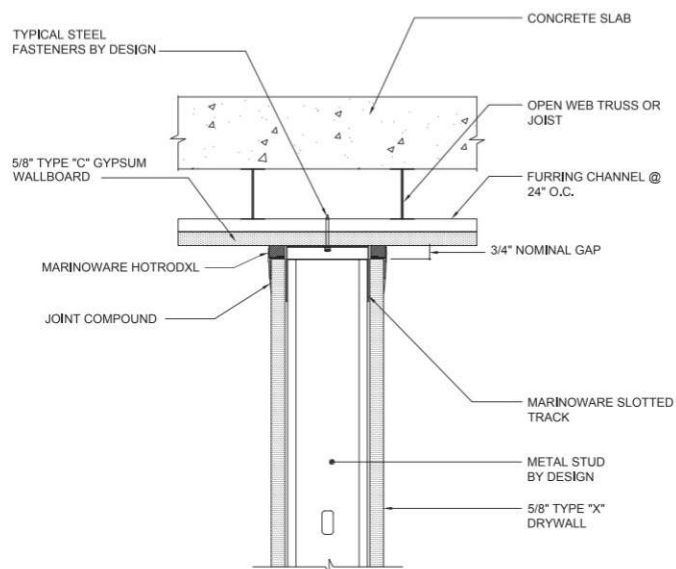
Firestopping for Building Joints

BW-S-0024 1 & 2HR BOTTOM OF WALL



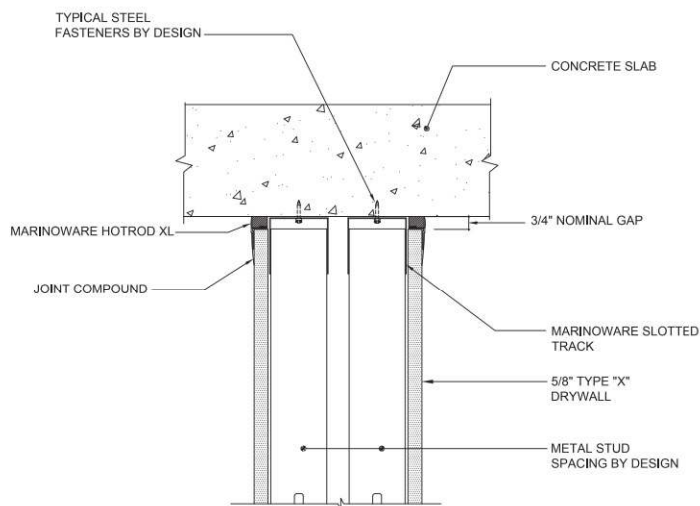
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0550 1 & 2HR STANDARD WALL, GYPSUM WALLBOARD CEILING



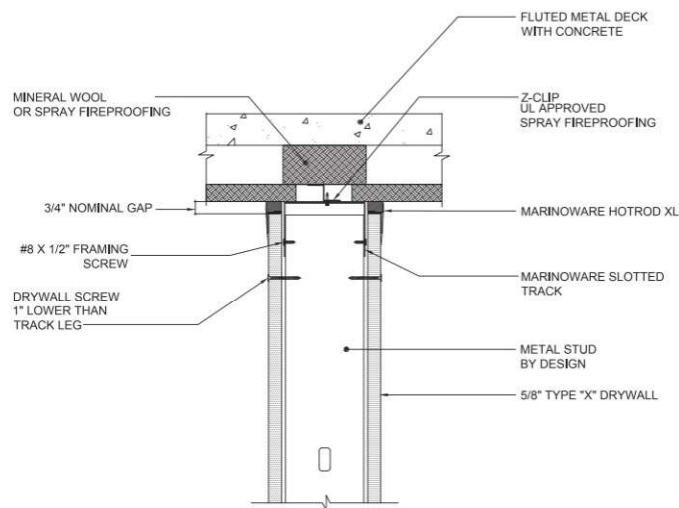
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0554 1 & 2HR STANDARD 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-0514 1 & 2HR 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

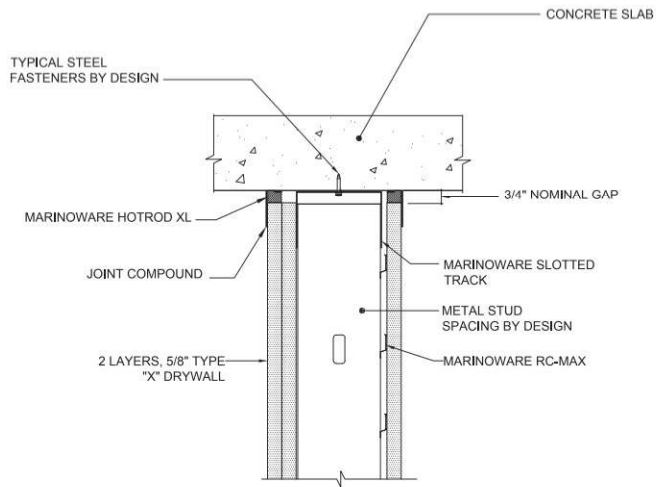
Always check the UL Fire Resistance Directory for full and complete design assembly requirements.

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Typical Details | HOTROD XL

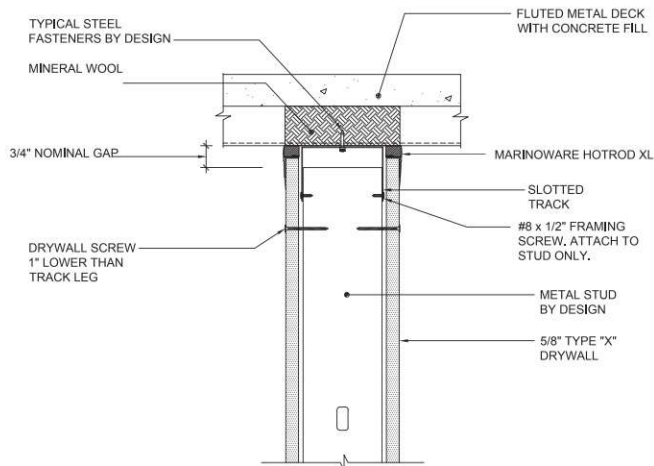
Firestopping for Building Joints

HW-D-0624 1HR STANDARD WALL, CONCRETE SLAB, STC RATING: 55



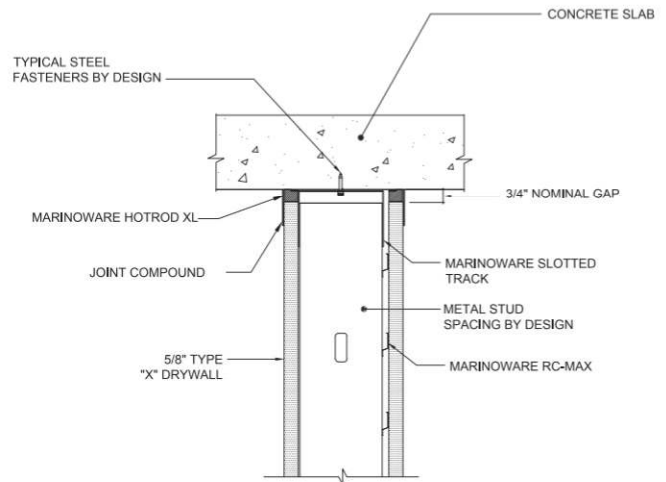
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0518 1 & 2HR STANDARD WALL, PERPENDICULAR TO FLUTED DECK



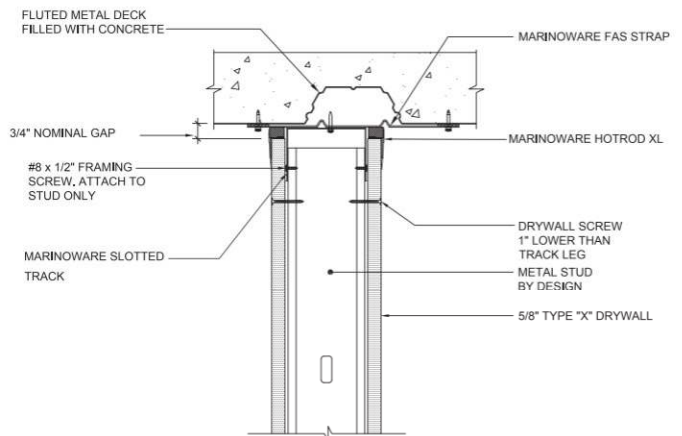
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0624 1HR STANDARD WALL, CONCRETE SLAB, STC RATING: 52



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

HW-D-0524 1 & 2HR OFFSET & PARALLEL UNDER FLUTED DECK



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

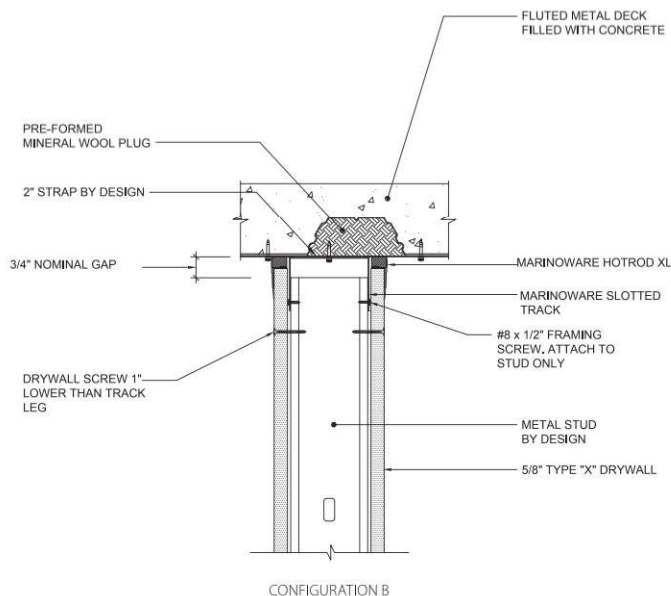
Always check the UL Fire Resistance Directory for full and complete design assembly requirements.

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Typical Details | HOTROD XL

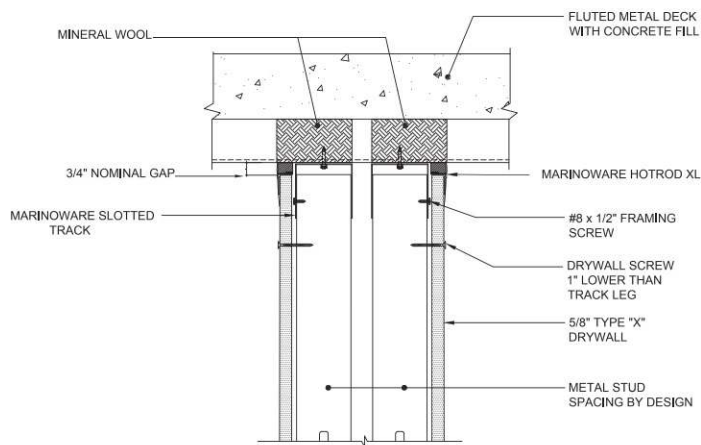
Firestopping for Building Joints

HW-D-0524 1 & 2HR OFFSET & PARALLEL UNDER FLUTED DECK



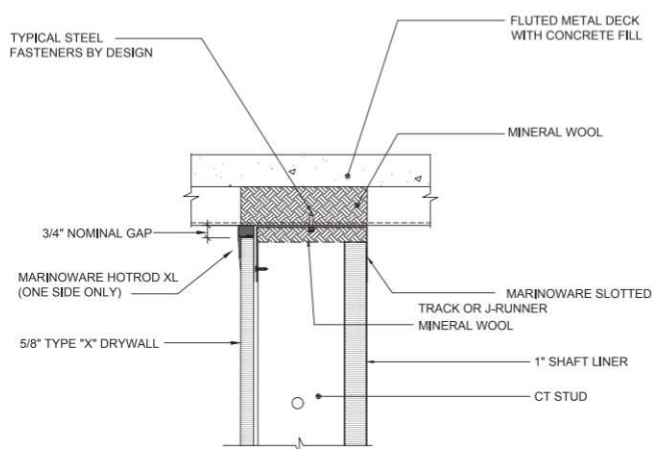
*NOTE: SINGLE LAYER OF 5/8\" TYPE \"X\" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0553 1 & 2HR CHASE WALL, PERPENDICULAR TO FLUTED DECK



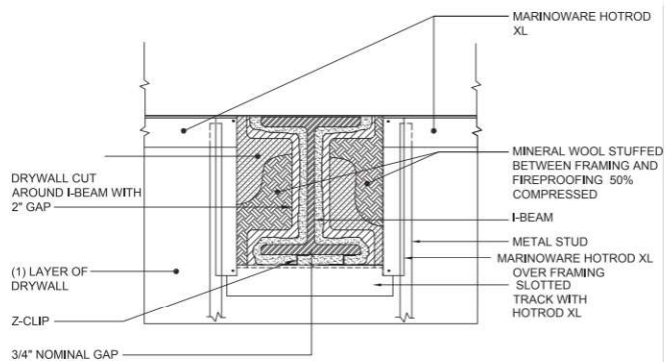
*NOTE: SINGLE LAYER OF 5/8\" TYPE \"X\" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0525 1 & 2HR 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-0573 1 & 2HR 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

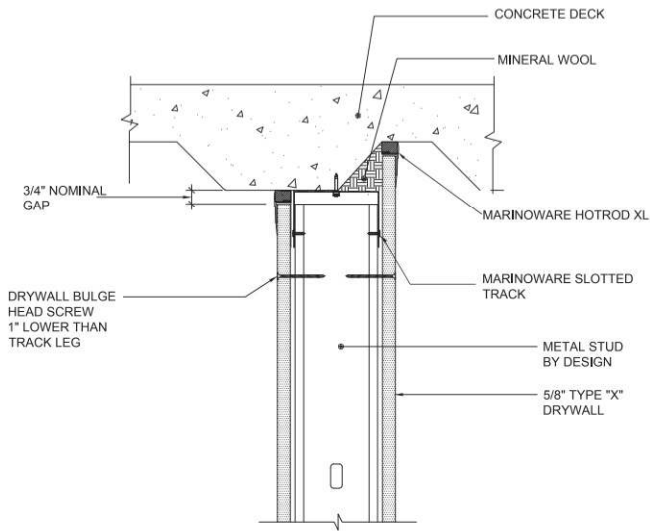
Always check the UL Fire Resistance Directory for full and complete design assembly requirements.

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Typical Details | HOTROD XL

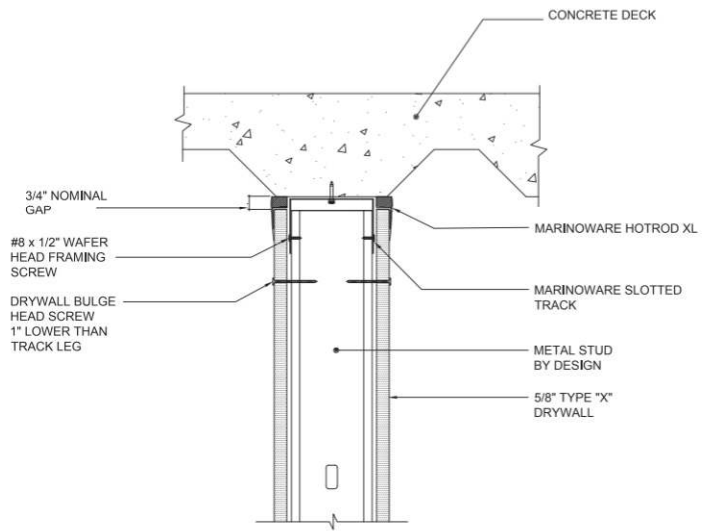
Firestopping for Building Joints

HW-D-0620 1 & 2HR PARALLEL & OFFSET UNDER FLUTED DECK



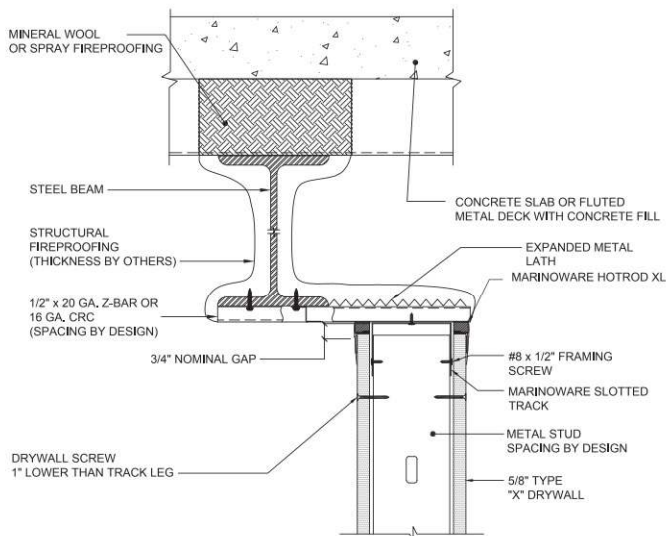
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0620 1 & 2HR PARALLEL & DIRECTLY UNDER FLUTED DECK



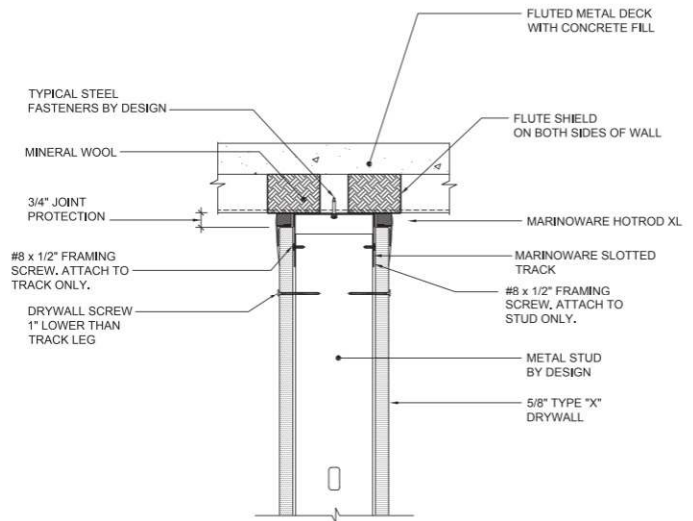
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0652 1 & 2HR PARALLEL & CANTILEVERED UNDER BEAM



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

HW-D-0518 1 & 2HR PERPENDICUALR TO FLUTED DECK



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

Always check the UL Fire Resistance Directory for full and complete design assembly requirements.

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MARINO\WARE FIRE BEAD (FIRE RATED DEFLECTION BEAD)

Product Description

MARINO\WARE FIRE BEAD is a fire rated wall mount deflection bead that provides 1- and 2-hour fire-ratings for both dynamic and static joints according to **UL-2079 5th Edition** (for both standard walls and shaft walls) and is sound tested according to ASTM E90. Sound Reports available upon request.

■ **FIRE BEAD** provides BOTH 1- and 2-hour fire ratings.

- The 1-hour profile has a 1/2" gasket with a 5/8" flexible horizontal return leg.
- The 2-hour profile has a 1/2" gasket with a 1-1/4" flexible horizontal return leg.
- Provides an L-rating less than 1 CFM/Lin Ft for ambient and 400 degrees F.

■ **FIRE BEAD** is installed fully cured, is not affected by water or moisture and has no temperature restrictions for installation.

■ **FIRE BEAD** has 2 separate compressible sealing points, one against the concrete deck and one against the framing member to prevent sound flanking.

■ **FIRE BEAD** has a pink perforated mud leg to indicate to the installer and inspector that the vinyl accessory is fire rated.

■ **FIRE BEAD** will stay flexible for the life of the assembly.

FIRE BEAD Installation: Install drywall no more than 5/8" down from concrete or adjoining structure. Install the FIRE BEAD with 847 Spray Adhesive and staple the mud leg with 1/2" staple every 6-8". Apply joint compound and prior to the final sanding remove the tear off strip for a clean and crisp finish. FIRE BEAD is designed to be attached to the drywall and compressed against the concrete deck or adjoining structure. The flexible gasket compresses with deflection movement to prevent cracking at the head of wall, bottom of wall or vertical wall to wall joints.

Finishing: Always use a high-quality paint.

Advantages: Composite vinyl/intumescent firestopping accessory that is fully cured. Comes in 10' lengths with a 5/16" tear off leg that acts as a guide to apply joint compound without masking off adjoining surfaces. Made from rust proof, dent resistant PVC to reduce jobsite and handling damage. Does not contain cellulose, a potential food source for mold, and provides an unlimited shelf life.

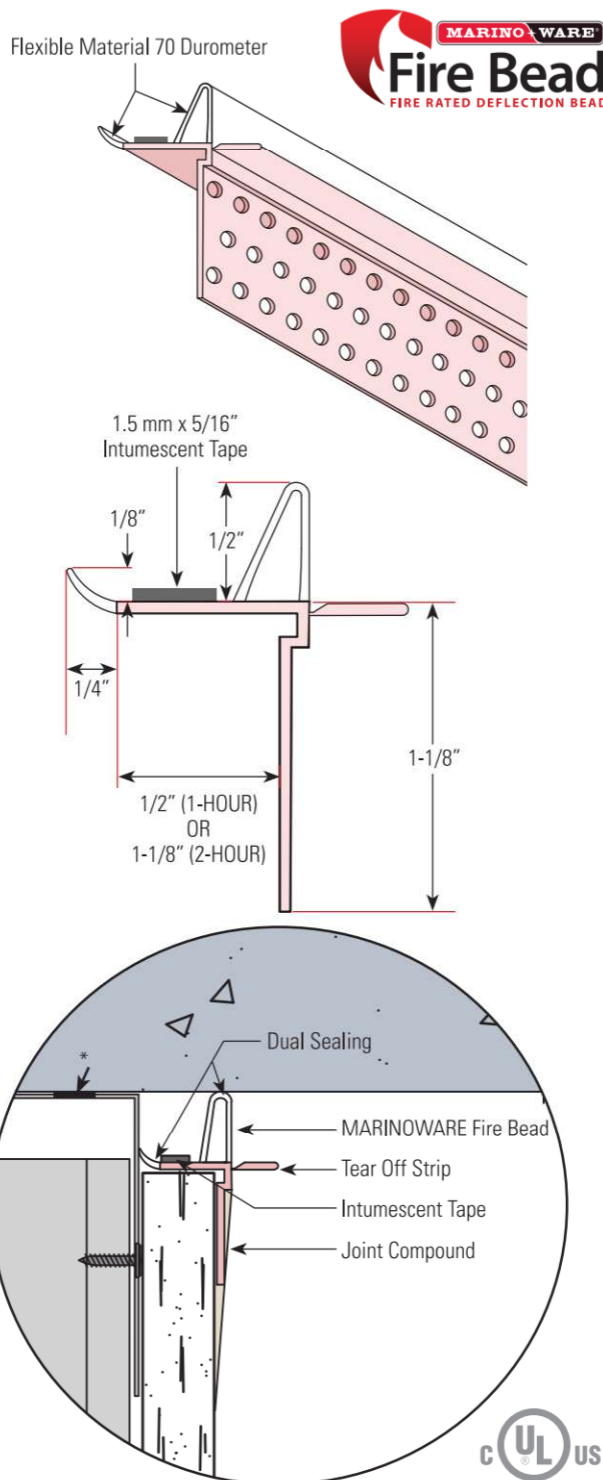
Packaging

- 10'-0" lengths; 12 pieces per box; 40 boxes per pallet.
- When properly stored indoors, and in original packaging FIRE BEAD will not break-down and has no expiration date.

ASTM & Code Standards

- ASTM E 1966: Standard Test Method of Fire Tests of Firestop Systems – UL 2079 5th Edition 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.
- Intumescent Firestopping tested per ASTM E 84 UL723, Flame Spread 5, Smoke Index 5.
- UL listings/approvals – HW-D-0624; HW-D-0625; HW-D-0554; HW-D-0550; BW-S-0024; WW-D-0104.
- Patent pending

*Optional bead of sealant can be applied to the web of the track prior to installation to seal off any potential gaps between the track and the concrete.



For more information, please contact Marino\WARE® Technical Services at 866.545.1545

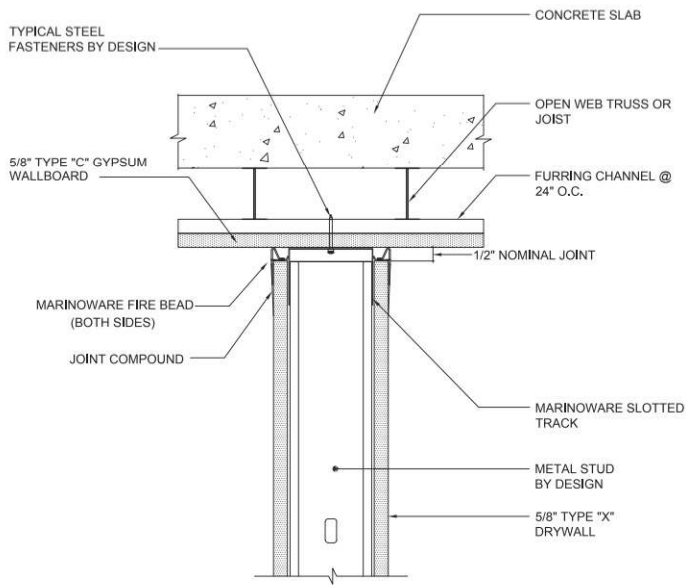
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Typical Details | Fire Bead

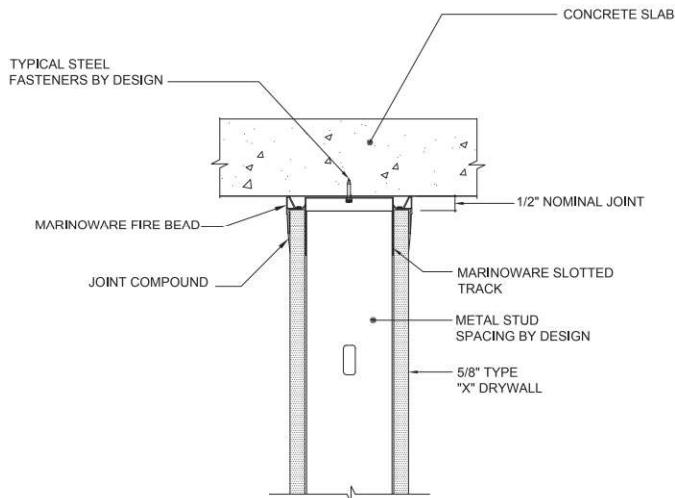
Fire Rated Deflection Bead

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



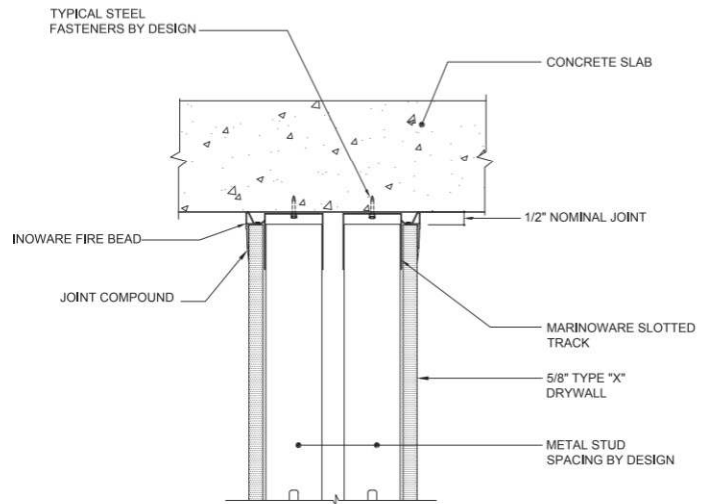
*NOTE: SINGLE LAYER OF 5/8\" TYPE \"X\" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

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



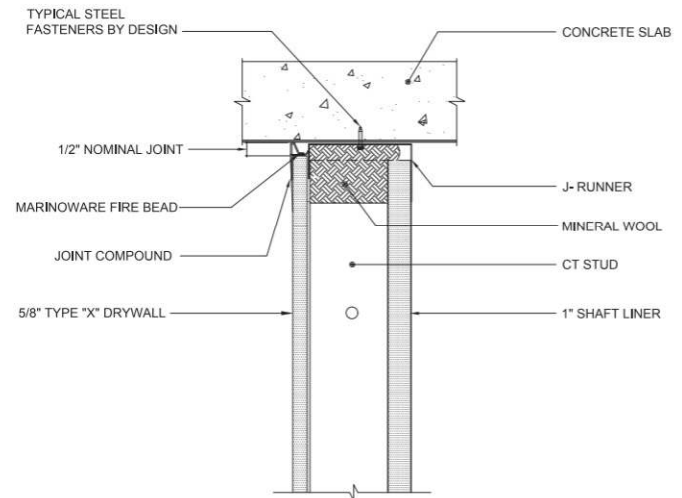
*NOTE: SINGLE LAYER OF 5/8\" TYPE \"X\" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0554 1 HR. STANDARD 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-0625 1 HR. SHAFT WALL, CONCRETE SLAB



CONFIGURATION \"A\"

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

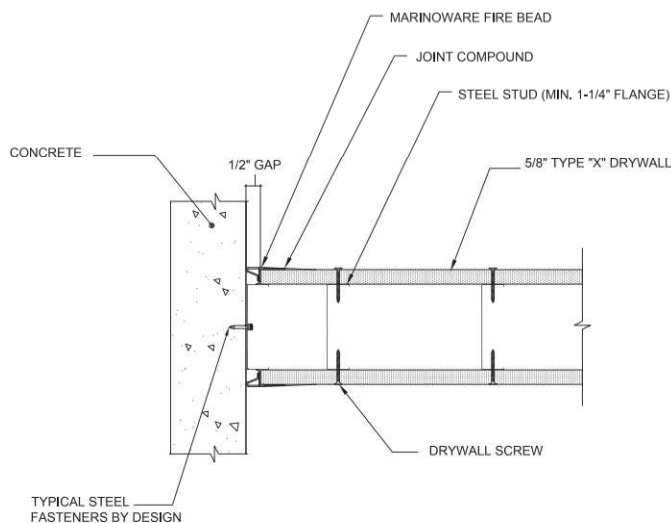
Always check the UL Fire Resistance Directory for full and complete design assembly requirements.

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Typical Details | Fire Bead

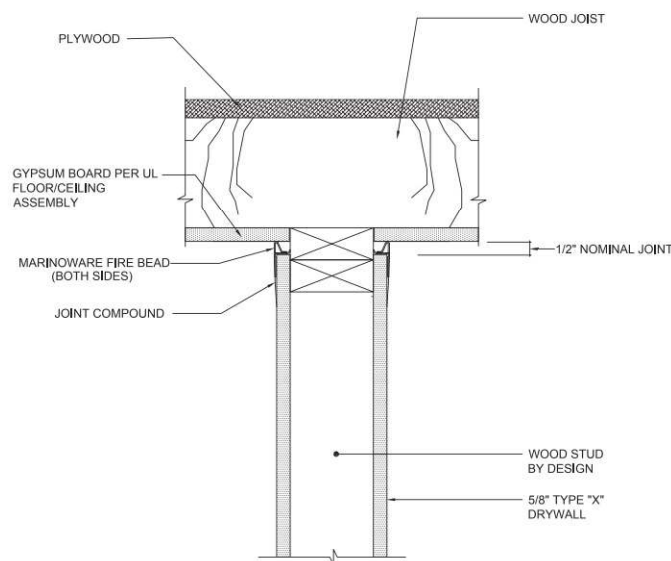
Fire Rated Deflection Bead

WW-D-0104 1 HR. VERTICAL TIE-IN TO CONCRETE SLAB

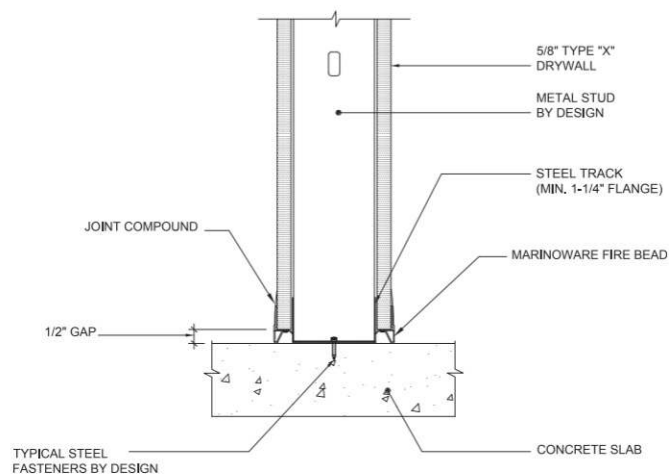


*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-S-0128 FIRE BEAD FOR WOOD FRAMING

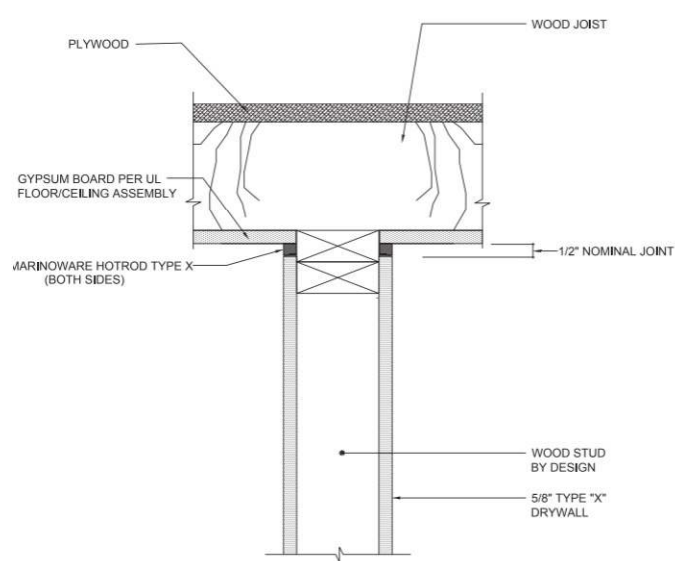


BW-S-0024 1 HR. BOTTOM WALL STATIC JOINT



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

HW-S-0128 HOTROD FOR WOOD FRAMING



Always check the UL Fire Resistance Directory for full and complete design assembly requirements.

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MARINO\WARE FIRE GASKET™ .5 (FIRESTOPPING FOR BUILDING JOINTS)

Product Description

MARINO\WARE FIRE GASKET™ .5 is a fire rated composite vinyl intumescent accessory that provides fire-ratings for both dynamic and static joints with both concrete and fluted deck assemblies according to **UL-2079 5th edition**, provides **1 and 2 hour fire-ratings**, and an L-rating of less than 1 CFM provides up to 1/2" of unencumbered movement and is sound tested according to ASTM E90.

- **FIRE GASKET .5** may be used with CEMCO Spray-Less Flute Clip for walls perpendicular to flutes.
- **FIRE GASKET .5** takes the place of fire sealant at building joints and does not require any fire spray over compressed mineral wool when used perpendicular to fluted decks.
- **FIRE GASKET .5** is manufactured is a pink color vinyl that is easily identified by the inspector.
- **FIRE GASKET .5** features an intumescent strip along the inside leg of the profile where it is protected from any potential trade damages.
- **FIRE GASKET .5** installs on both sides of the wall and comes in 10' lengths.
- **FIRE GASKET .5** can be installed in the field or pre-installed to the track prior to installing track in place.
- **FIRE GASKET .5** is very durable and is not easily damaged, once installed it will not delaminate, it will not take in water, and it will not shrink or harden over time.
- **FIRE GASKET .5** provides premium STC ratings.
 - STC 51 on 3-5/8" 20 EQ studs unbalanced walls.
 - STC 55 on 3-5/8" 20 EQ studs balanced walls.
 - STC 68 on 2-1/2" double walls.

Installation Instructions

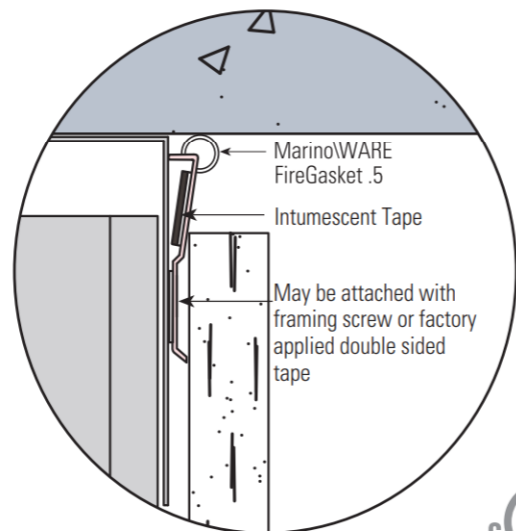
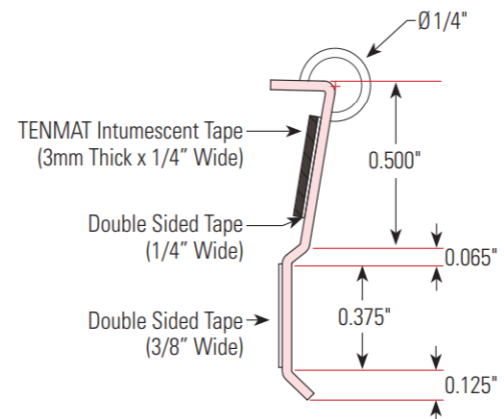
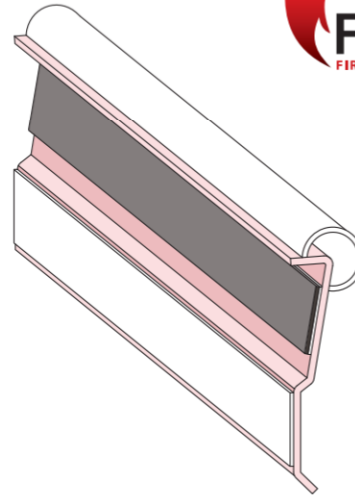
- Install Fire Gasket directly against the perimeter framing member (top track, perimeter stud, bottom track).
- Fire Gasket installs by removing the release paper on its lower leg and pressing firmly into the framing member. Fire Gasket can optionally be installed mechanically through its lower leg with 1/2" framing screws.
- Compress Fire Gasket's bubble gasket firmly against the concrete or fluted deck to prevent smoke, sound or light that would otherwise be able to pass over the top and/or bottom web of the track.
- Follow all other wall assembly requirements outlined in the UL joint system reports.

Packaging

- 10'-0" lengths; 20 pieces per box; 96 boxes per pallet.
- When properly stored indoors, and in original packaging FIRE GASKET will not breakdown and has no expiration date.

ASTM & Code Standards

- ASTM E 1966: Standard Test Method of Fire Tests of Firestop Systems – UL 2079 5th Edition 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.
- Intumescent Firestopping tested per ASTM E 84 UL723, Flame Spread 5, Smoke Index 5.
- UL listings/approvals – HW-D-0515; HW-D-0514; HW-D-0524; HW-D-0551; HW-D-0550; HW-D-0554; HW-D-0600; HW-D-0620; HW-D-0652; HW-D-0518; HW-D-0553; HW-D-0573 ; HW-D-0623; WW-S-0057; BW-S-0024; WW-D-0104.
- U.S. Patent No. 10,246,871; 10,689,842 B2; 10,753,084; 10,954,670



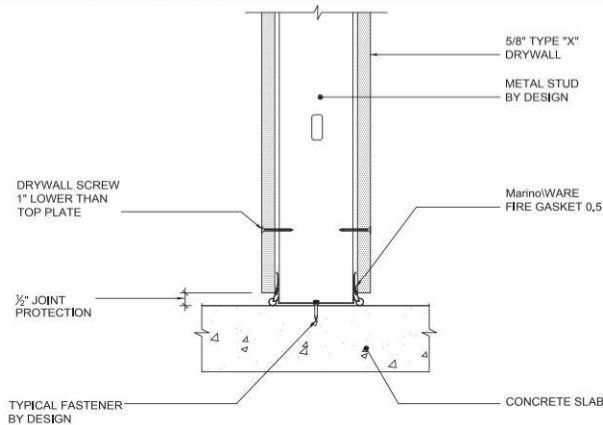
For more information, please contact Marino\WARE® Technical Services at 866.545.1545

This technical information reflects the most current information available and supersedes any and all previous publications effective April 29, 2022 | MW-FS Catalog | ©WARE Industries, Inc. 2022

Typical Details | Fire Gasket .5

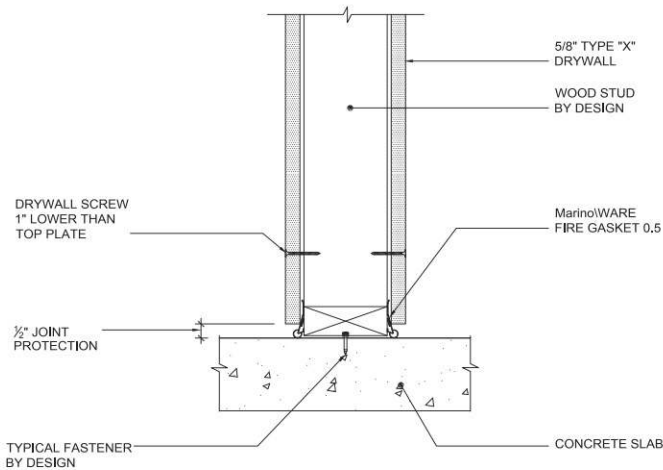
Firestopping for Building Joints

BW-S-0024 - BOTTOM OF WALL



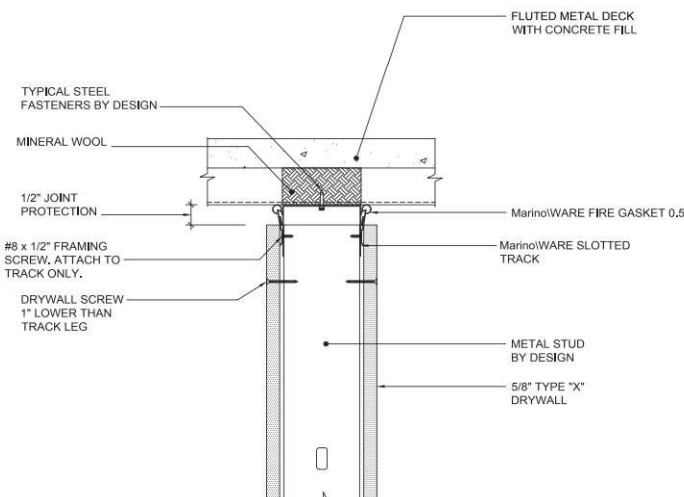
*NOTE: SINGLE LAYER OF 5/8\" TYPE \"X\" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

BW-S-0024 BOTTOM WALL STATIC JOINT WITH WOOD FRAMING



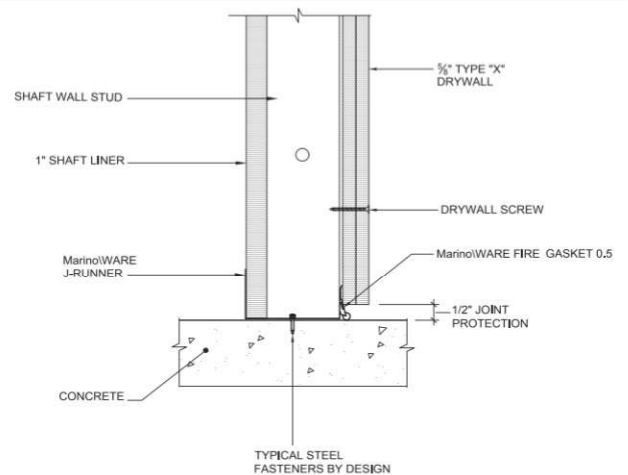
*NOTE: SINGLE LAYER OF 5/8\" TYPE \"X\" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0518 STANDARD WALL, PERPENDICULAR TO FLUTED DECK



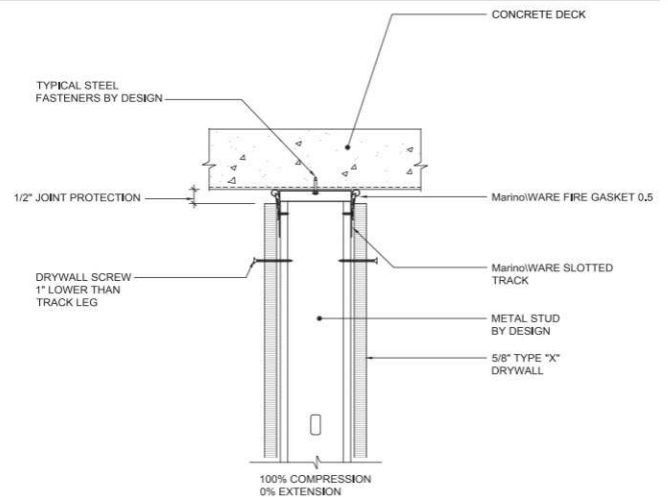
*NOTE: SINGLE LAYER OF 5/8\" TYPE \"X\" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

BW-5-0053 SHAFT WALL BOTTOM OF WALL



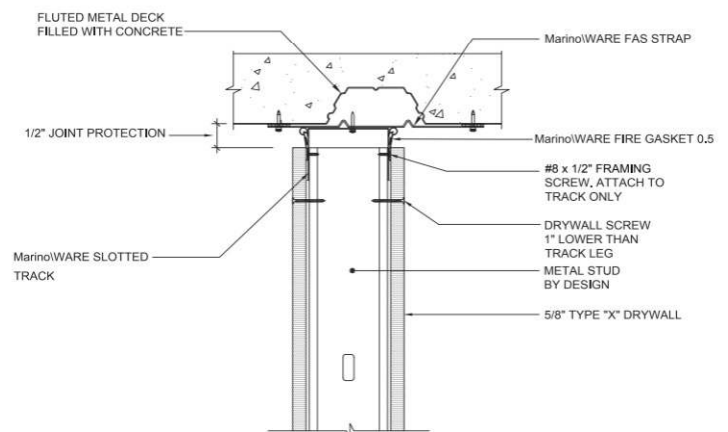
*NOTE: SINGLE LAYER OF 5/8\" TYPE \"X\" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0515 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-0524 STANDARD WALL, OFFSET & PARALLEL UNDER FLUTED DECK



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

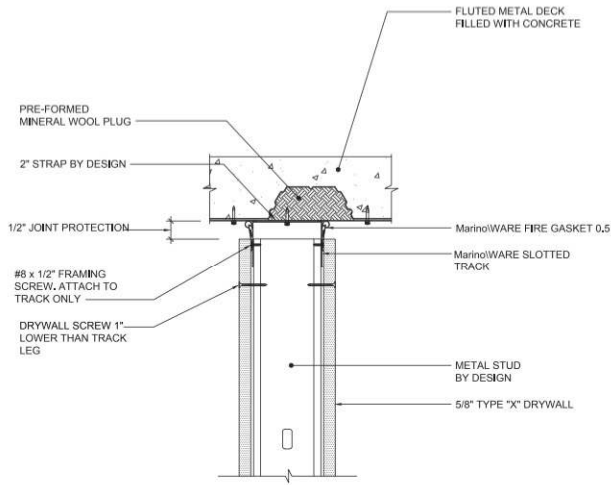
Always check the UL Fire Resistance Directory for full and complete design assembly requirements.

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Typical Details | Fire Gasket .5

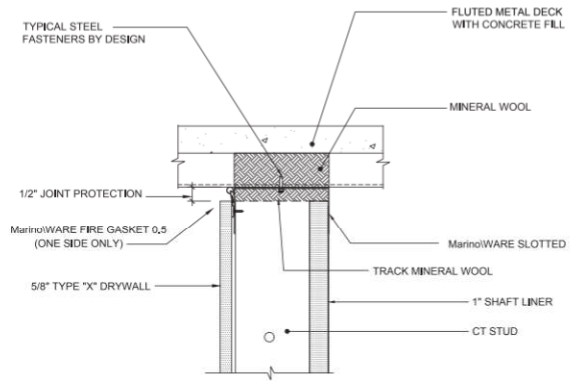
Firestopping for Building Joints

HW-D-0524 STANDARD WALL, OFFSET & PARALLEL UNDER FLUTED DECK



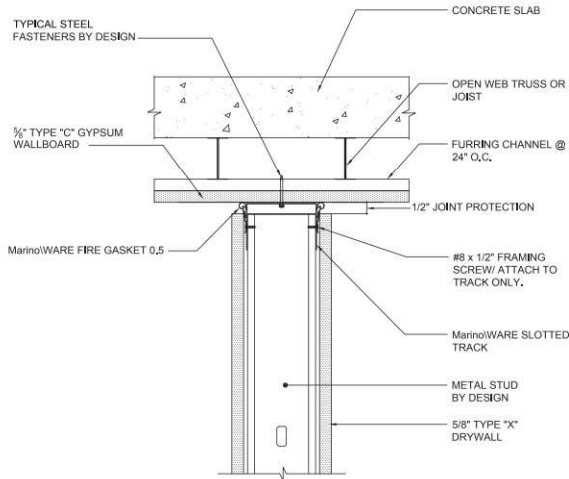
*NOTE: SINGLE LAYER OF 5/8\" TYPE \"X\" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

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



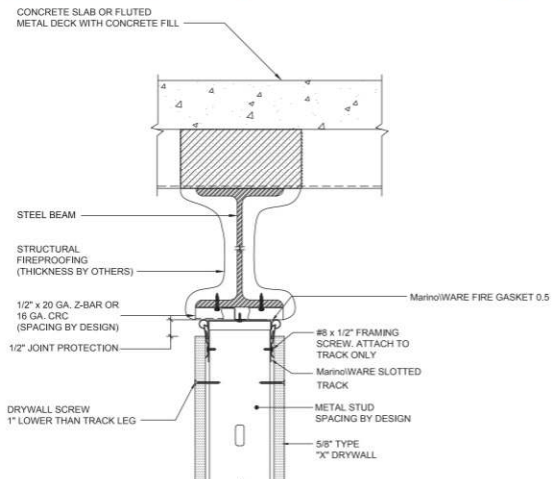
*NOTE: SINGLE LAYER OF 5/8\" TYPE \"X\" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0550 STANDARD WALL, GYPSUM WALLBOARDING CEILING



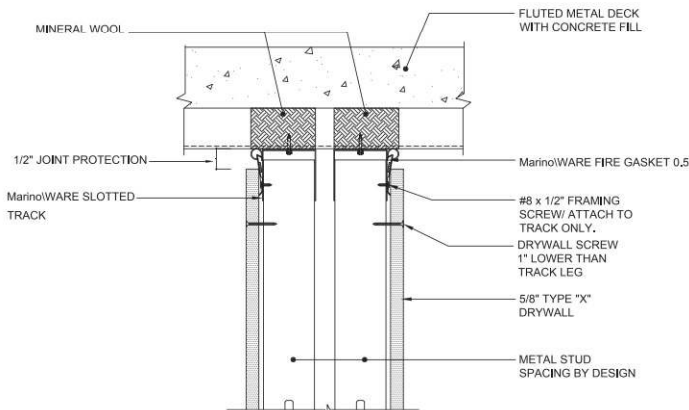
*NOTE: SINGLE LAYER OF 5/8\" TYPE \"X\" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0551 STANDARD WALL, PARALLEL & CENTERED DIRECTLY UNDER BEAM

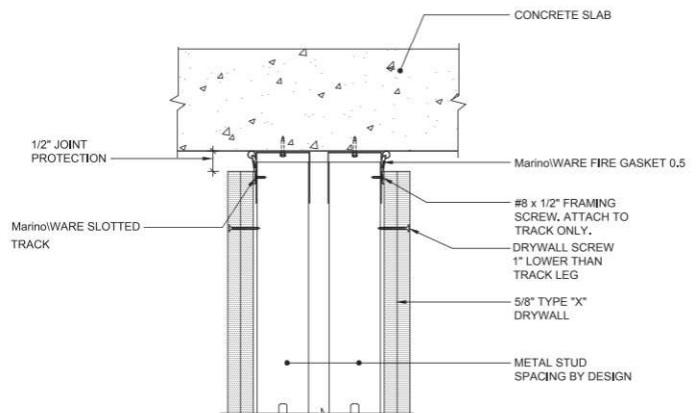


NOTE: DOUBLE LAYER OF 5/8\" TYPE \"X\" DRYWALL FOR 1 HOUR FIRE RATING
*NOTE: SINGLE LAYER OF 5/8\" TYPE \"X\" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0553 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



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

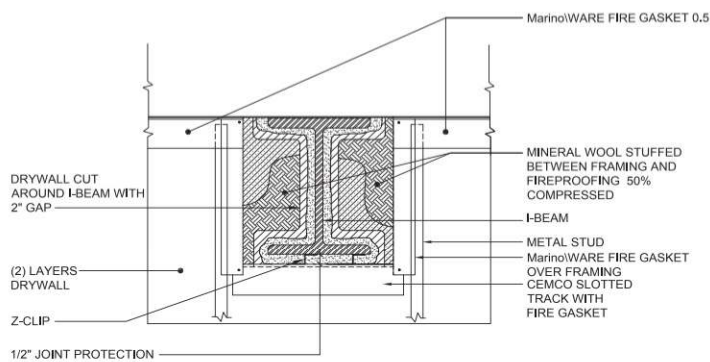
Always check the UL Fire Resistance Directory for full and complete design assembly requirements.

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Typical Details | Fire Gasket .5

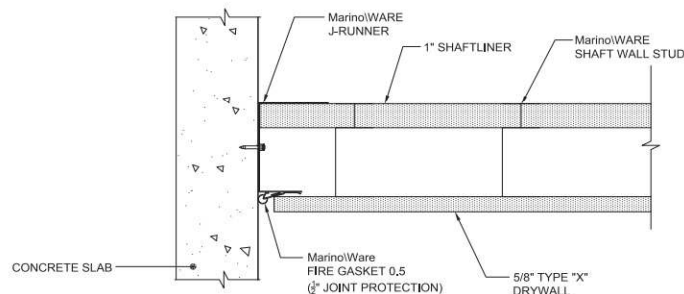
Firestopping for Building Joints

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



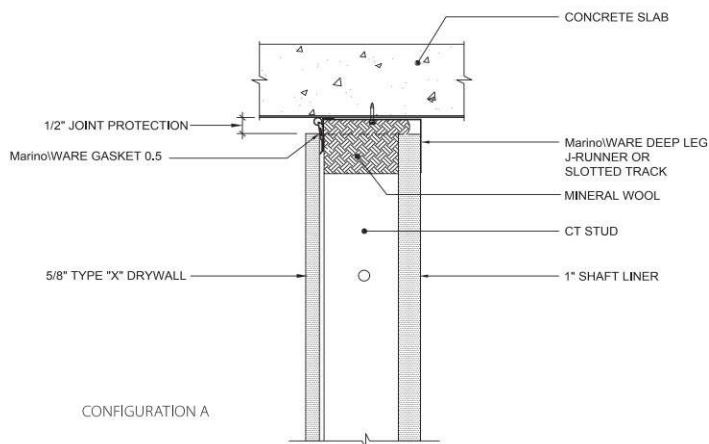
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

WW-S-0094 SHAFT WALL, VERTICAL JOINT



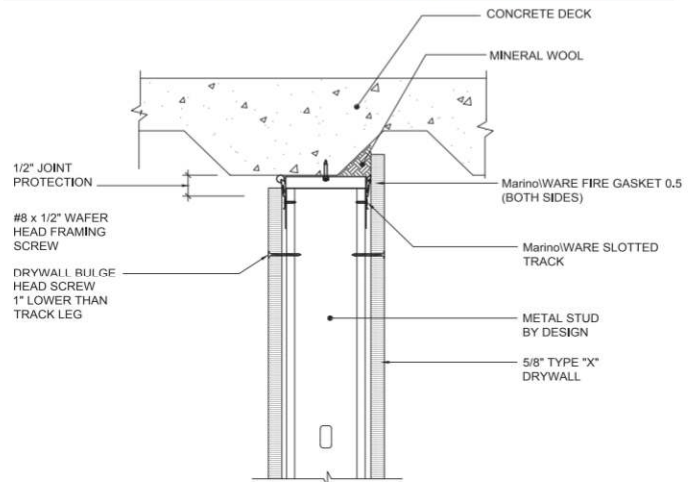
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0625 SHAFT WALL, CONCRETE SLAB



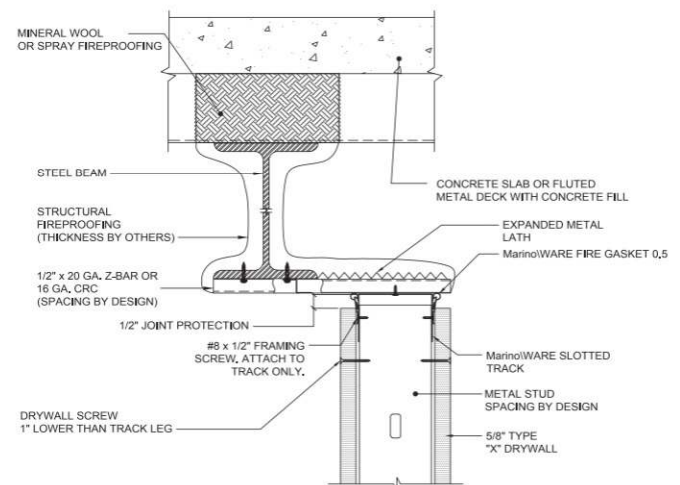
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0620 STANDARD WALL, PARALLEL & OFFSET UNDER FLUTED DECK



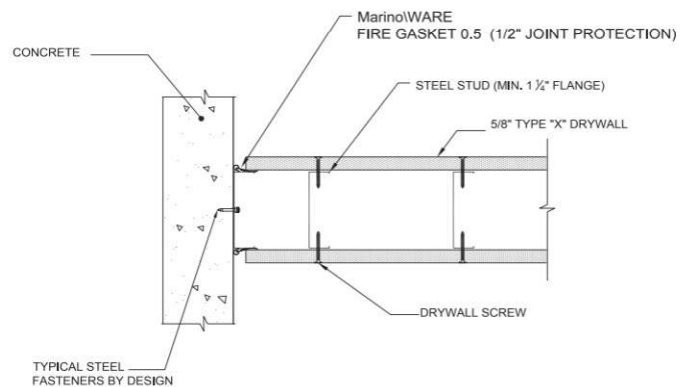
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0652 STANDARD WALL, PARALLEL & 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 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

Always check the UL Fire Resistance Directory for full and complete design assembly requirements.

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MARINO\WARE FIRE GASKET 1 (FIRESTOPPING FOR BUILDING JOINTS)

Product Description

MARINOWARE FIRE GASKET 1 is a fire rated composite vinyl intumescent accessory that provides fire-ratings for both dynamic and static joints with both concrete and fluted deck assemblies according to **UL-2079 5th edition**, provides **1 and 2 hour fire-ratings**, and an L-rating of less than 1 CFM provides up to 1" of unencumbered movement and is sound tested according to ASTM E90.

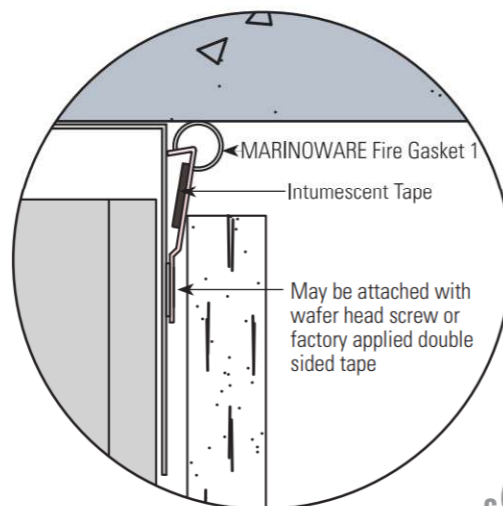
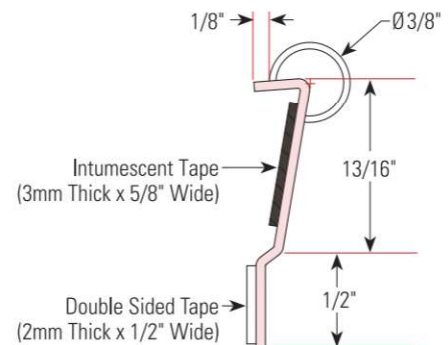
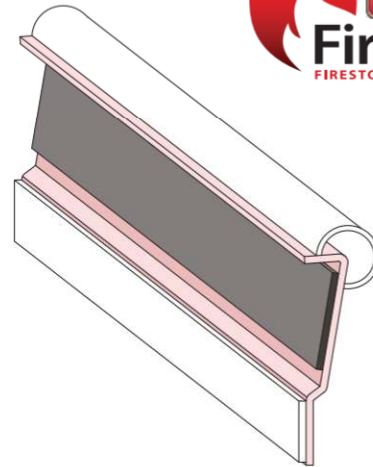
- **FIRE GASKET 1** is attached to the leg of the track using factory applied pressure sensitive tape. It features a 3/8" hollow bubble gasket on the upper corner that is easily compressed to seal against uneven concrete or fluted decks. Once properly installed the Fire Gasket provides an unbreakable seal, to provide long term fire, smoke and sound protection.
- **FIRE GASKET 1** may be used with CEMCO Spray-Less Flute Clip for walls perpendicular to flutes.
- **FIRE GASKET 1** takes the place of fire sealant at building joints and does not require any fire spray over compressed mineral wool when used perpendicular to fluted decks.
- **FIRE GASKET 1** is manufactured is a pink color vinyl that is easily identified by the inspector.
- **FIRE GASKET 1** features an intumescent strip along the inside leg of the profile where it is protected from any potential trade damages.
- **FIRE GASKET 1** installs fully cured and has no installation temperature or humidity restrictions.
- **FIRE GASKET 1** installs on both sides of the wall and comes in 10' lengths.
- **FIRE GASKET 1** can be installed in the field or pre-installed to the track prior to installing track in place.
- **FIRE GASKET 1** provides up to 1" overall unencumbered movement.
- **FIRE GASKET 1** is very durable and is not easily damaged, once installed it will not delaminate, it will not take in water, and it will not shrink or harden over time.
- **FIRE GASKET 1** provides premium STC ratings.
 - STC 51 on 3-5/8" 20 EQ studs unbalanced walls.
 - STC 55 on 3-5/8" 20 EQ studs balanced walls.

Packaging

- 10'-0" lengths; 20 pieces per box; 30 boxes per pallet.
- When properly stored indoors, and in original packaging FIRE GASKET will not breakdown and has no expiration date.

ASTM & Code Standards

- ASTM E 1966: Standard Test Method of Fire Tests of Firestop Systems – UL 2079 5th Edition 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.
- Intumescent Firestopping tested per ASTM E 84 UL723, Flame Spread 5, Smoke Index 5.
- UL listings/approvals – HW-D-0515; HW-D-0514; HW-D-0524; HW-D-0551; HW-D-0550; HW-D-0554; HW-D-0600; HW-D-0620; HW-D-0652; HW-D-0518; HW-D-0553; HW-D-0573.
- **U.S. Patent No. 10,246,871**



Always check the UL Fire Resistance Directory for full and complete design assembly requirements.

For more information, please contact Marino\WARE® Technical Services at 866.545.1545

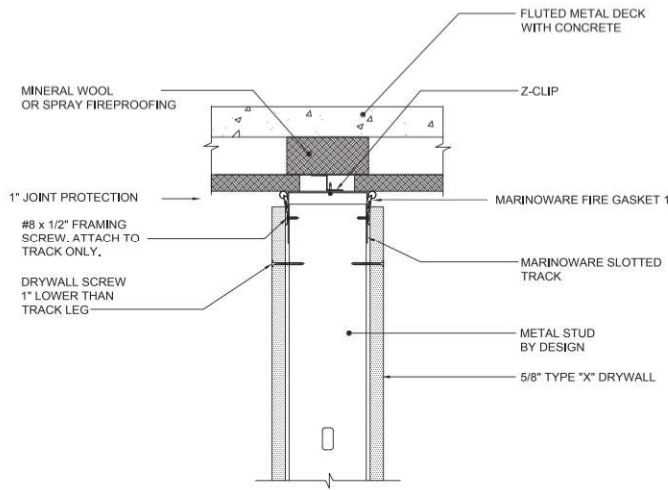
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Typical Details | Fire Gasket 1

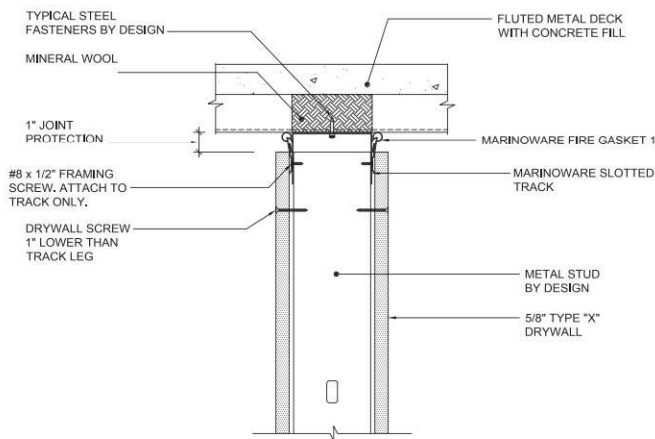
Firestopping for Building Joints

HW-D-0514 1 & 2HR STANDARD WALL, PERPENDICULAR TO FLUTED DECK



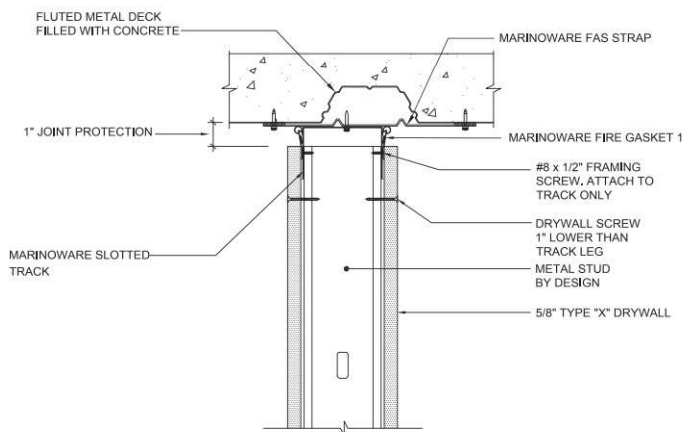
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0518 1 & 2HR STANDARD WALL, PERPENDICULAR TO FLUTED DECK



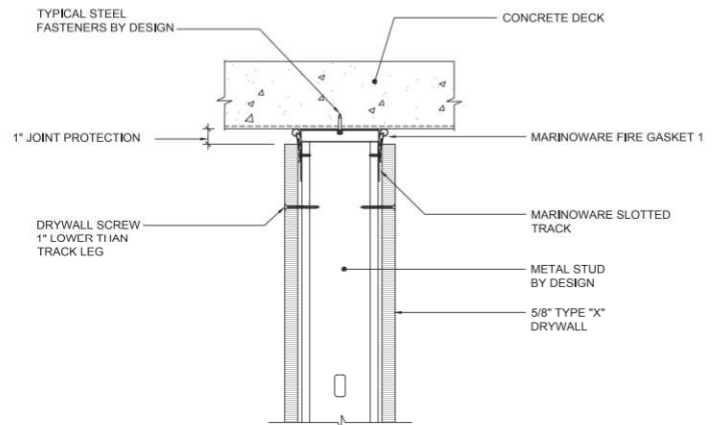
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0524 1 & 2HR OFFSET & PARALLEL UNDER FLUTED DECK



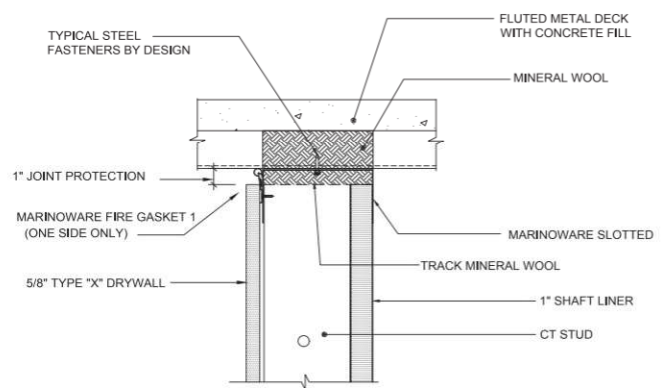
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0515 1 & 2HR STANDARD WALL, CONCRETE SLAB



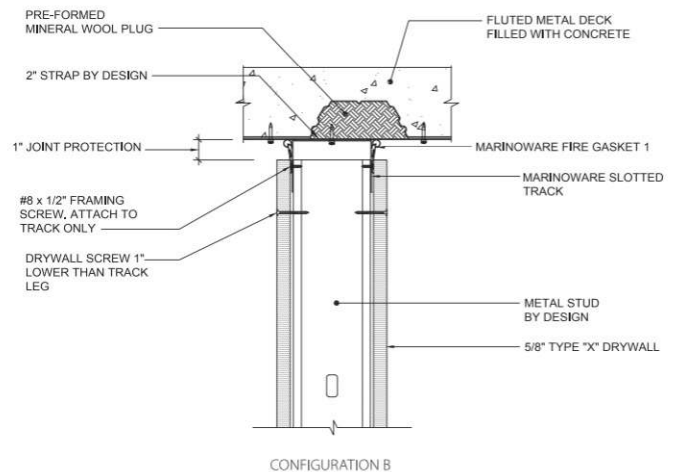
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0525 1 & 2HR 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-0524 1 & 2HR OFFSET & PARALLEL UNDER FLUTED DECK



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

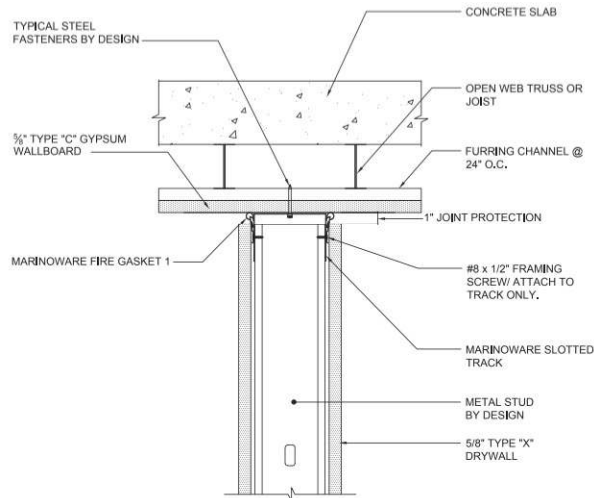
Always check the UL Fire Resistance Directory for full and complete design assembly requirements.

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Typical Details | Fire Gasket 1

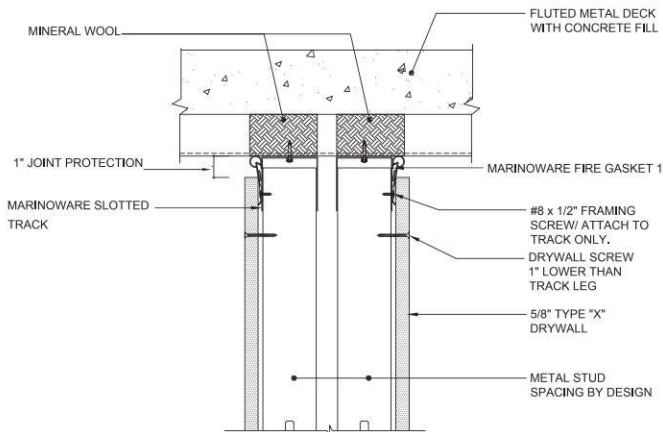
Firestopping for Building Joints

HW-D-0550 1 & 2HR STANDARD WALL, GYPSUM WALLBOARD CEILING

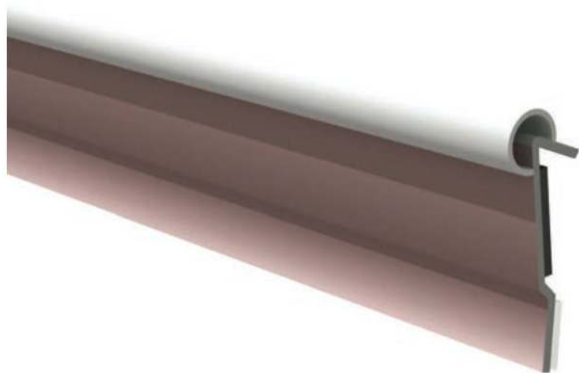


*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

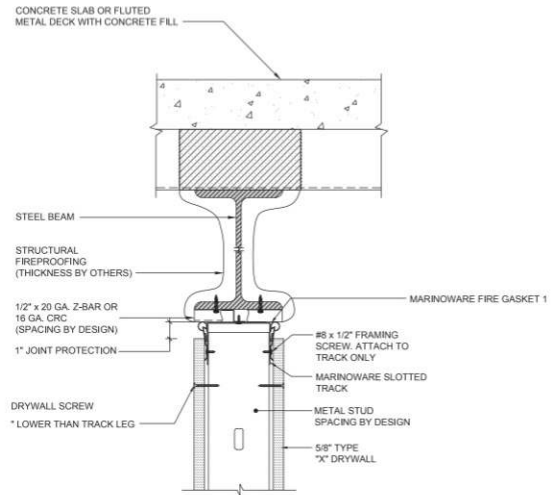
HW-D-0553 1 & 2HR CHASE WALL, PERPENDICULAR TO FLUTED DECK



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

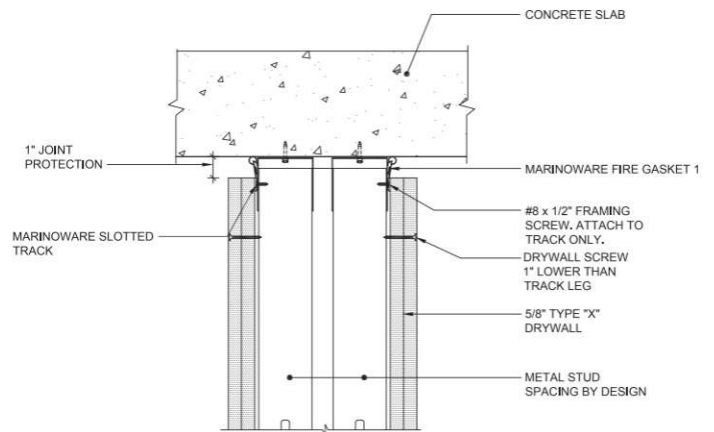


HW-D-0551 1 & 2HR PARALLEL & CENTERED DIRECTLY UNDER BEAM



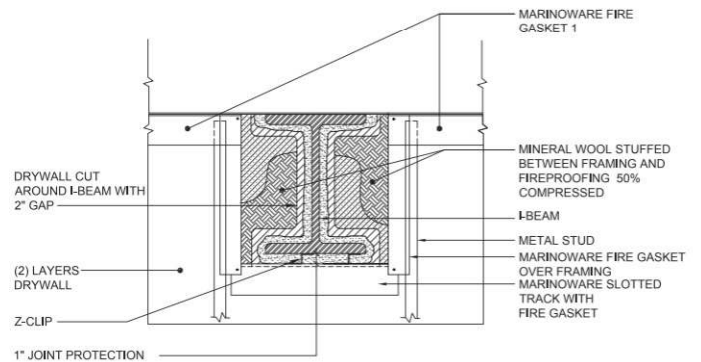
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0554 1 & 2HR STANDARD 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-0573 1 & 2HR @ FLUTED DECK BEAM PENETRATION



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

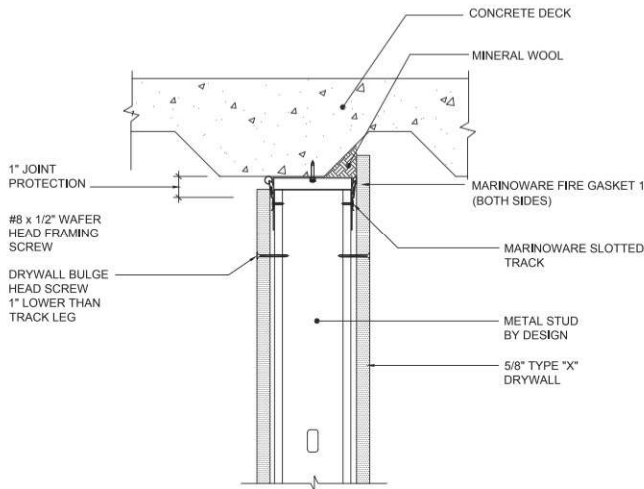
Always check the UL Fire Resistance Directory for full and complete design assembly requirements.

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Typical Details | Fire Gasket 1

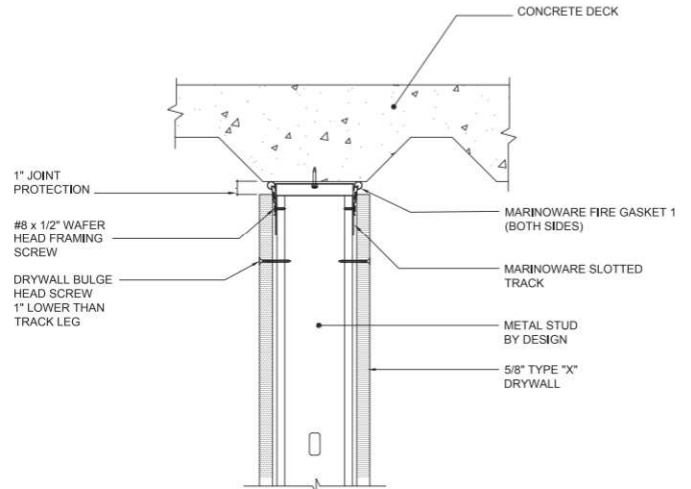
Firestopping for Building Joints

HW-D-0620 1 & 2HR PARALLEL & OFFSET UNDER FLUTED DECK



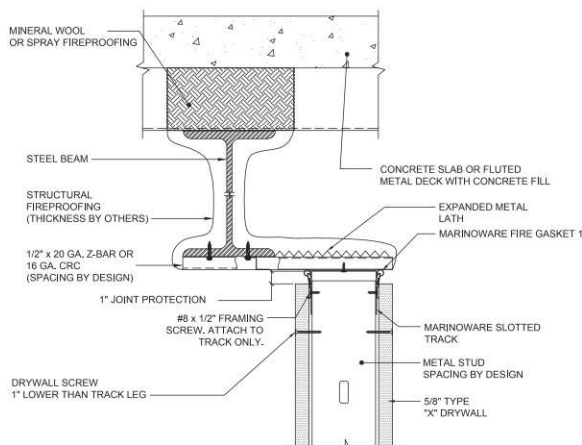
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0620 1 & 2HR PARALLEL & DIRECTLY UNDER FLUTED DECK



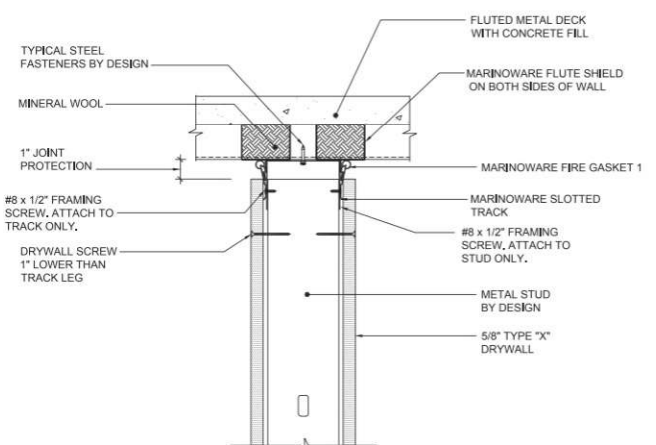
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0652 1 & 2HR PARALLEL & CANTILEVERED UNDER BEAM

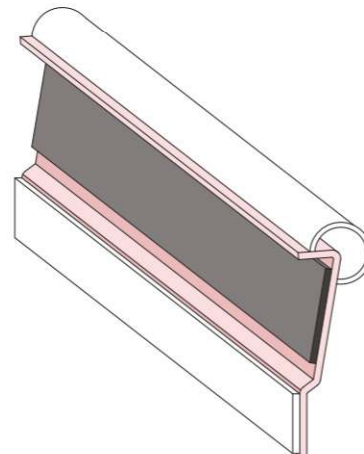
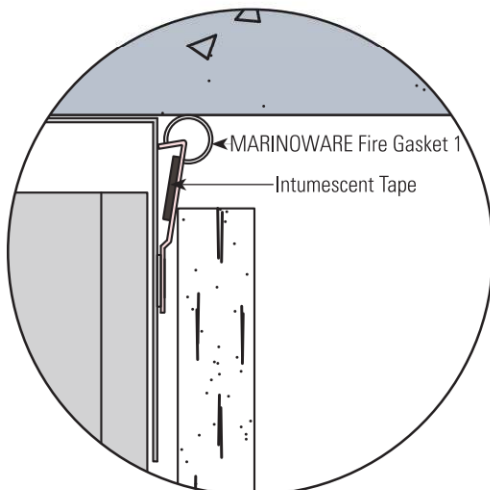


*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0518 1 & 2HR PERPENDICULAR TO FLUTED DECK



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



Always check the UL Fire Resistance Directory for full and complete design assembly requirements.

www.marinoware.com | 866.627.4661

MARINO\WARE FIRE GASKET 1.5 (FIRESTOPPING FOR BUILDING JOINTS)

Product Description

MARINO\WARE FIRE GASKET 1.5 is a fire rated composite vinyl intumescent accessory that provides fire-ratings for both dynamic and static joints with both concrete and fluted deck assemblies according to UL-2079 5th Edition, provides 1 and 2 hour fire-ratings, and an L-rating of less than 1 CFM provides up to 1-1/2" of unencumbered movement and is sound tested according to ASTM E90.

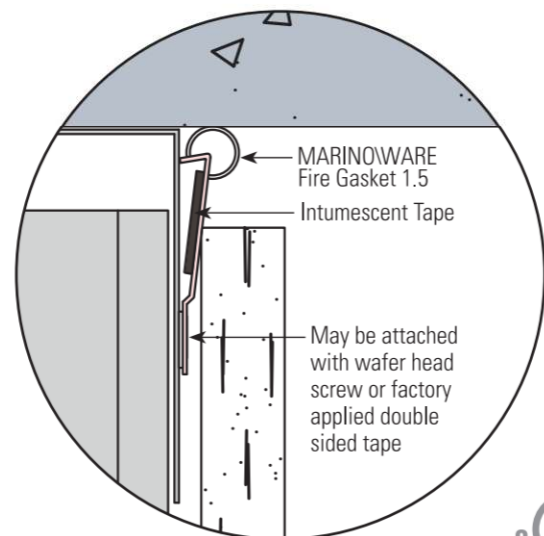
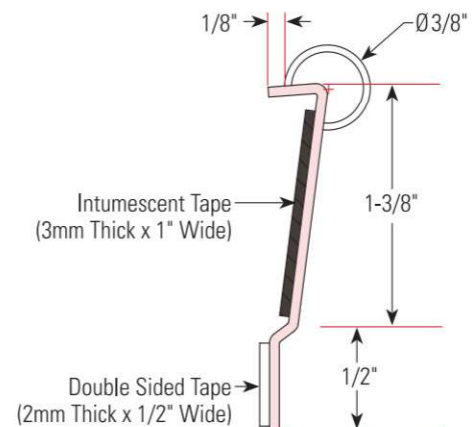
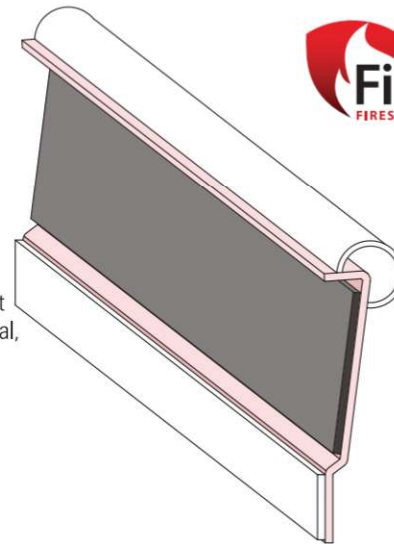
- **FIRE GASKET 1.5** is attached to the leg of the track using factory applied pressure sensitive tape. It features a 3/8" hollow bubble gasket on the upper corner that is easily compressed to seal against uneven concrete or fluted decks. Once properly installed the Fire Gasket provides an unbreakable seal, to provide long term fire, smoke and sound protection.
- **FIRE GASKET 1.5** takes the place of fire sealant at building joints and does not require any fire spray over compressed mineral wool when used perpendicular to fluted decks.
- **FIRE GASKET 1.5** is manufactured is a pink color vinyl that is easily identified by the inspector.
- **FIRE GASKET 1.5** features an intumescent strip along the inside leg of the profile where it is protected from any potential trade damages.
- **FIRE GASKET 1.5** installs fully cured and has no installation temperature or humidity restrictions.
- **FIRE GASKET 1.5** installs on both sides of the wall and comes in 10' lengths.
- **FIRE GASKET 1.5** can be installed in the field or pre-installed to the track prior to installing track in place.
- **FIRE GASKET 1.5** provides up to 1-1/2" overall unencumbered movement.
- **FIRE GASKET 1.5** is very durable and is not easily damaged, once installed it will not delaminate, it will not take in water, and it will not shrink or harden over time.
- **FIRE GASKET 1.5** provides premium STC ratings.
 - STC 51 on 3-5/8" 20 EQ studs unbalanced walls.
 - STC 55 on 3-5/8" 20 EQ studs balanced walls.

Packaging

- 10'-0" lengths; 20 pieces per box; 30 boxes per pallet.
- When properly stored indoors, and in original packaging FIRE GASKET will not breakdown and has no expiration date.

ASTM & Code Standards

- ASTM E 1966: Standard Test Method of Fire Tests of Firestop Systems – UL 2079 5th Edition 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.
- Intumescent Firestopping tested per ASTM E 84 UL723, Flame Spread 5, Smoke Index 5.
- UL listings/approvals – HW-D-0515; HW-D-0514; HW-D-0524; HW-D-0551; HW-D-0550; HW-D-0554; HW-D-0600; HW-D-0620; HW-D-0652; HW-D-0518; HW-D-0553; HW-D-0573.
- **U.S. Patent No. 10,246,871**



For more information, please contact Marino\WARE® Technical Services at 866.545.1545

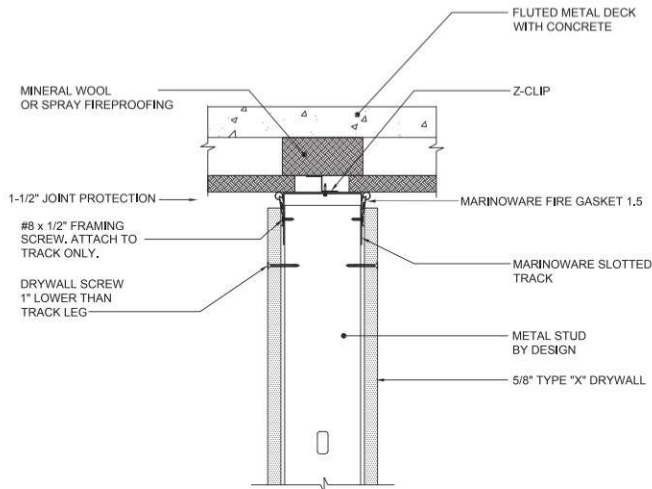
This technical information reflects the most current information available and supersedes any and all previous publications effective April 29, 2022 | MW-FS Catalog | ©WARE Industries, Inc. 2022



Typical Details | Fire Gasket 1.5

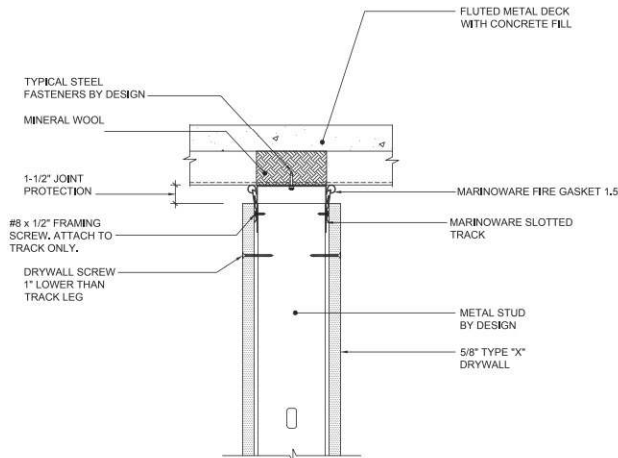
Firestopping for Building Joints

HW-D-0514 1 & 2HR STANDARD WALL, PERPENDICULAR TO FLUTED DECK



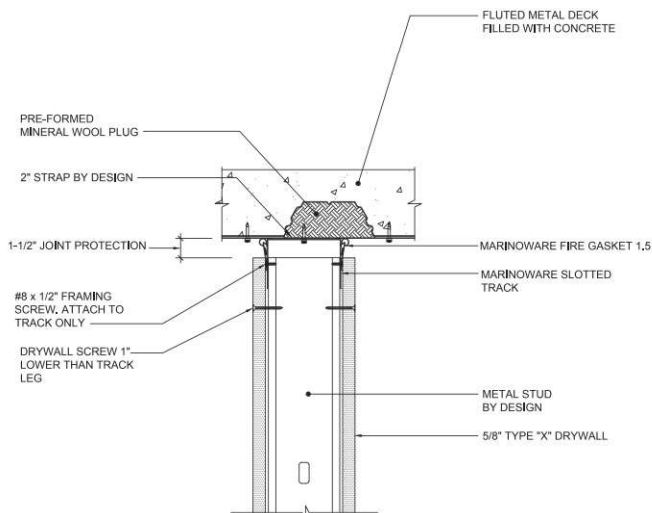
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0518 1 & 2HR STANDARD WALL, PERPENDICULAR TO FLUTED DECK



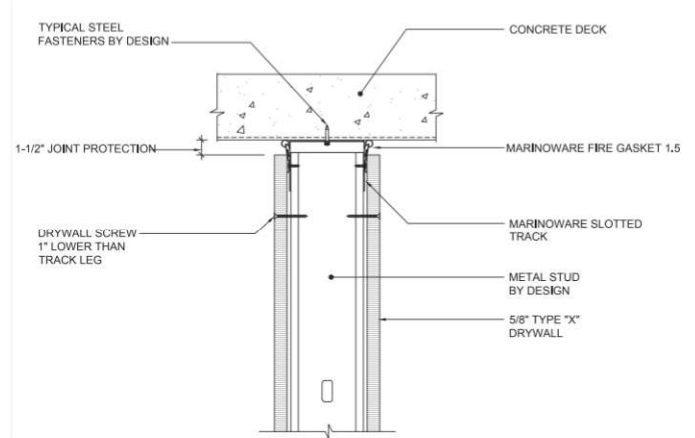
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0524 1 & 2HR OFFSET & PARALLEL UNDER FLUTED DECK



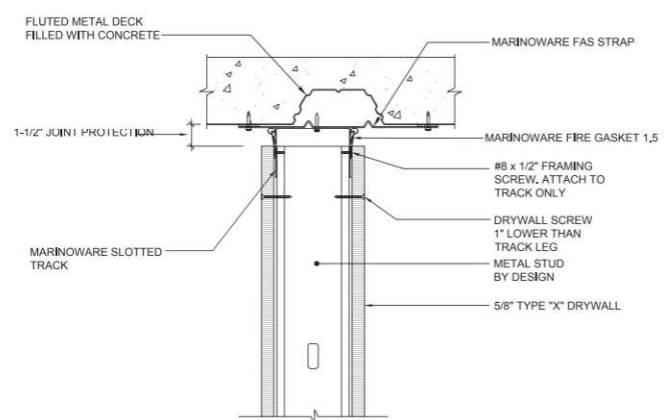
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0515 1 & 2HR STANDARD WALL, CONCRETE SLAB



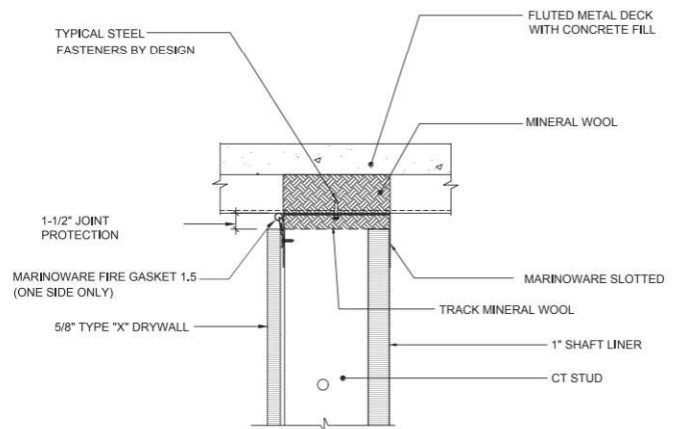
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0524 1 & 2HR 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-0525 1 & 2HR 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

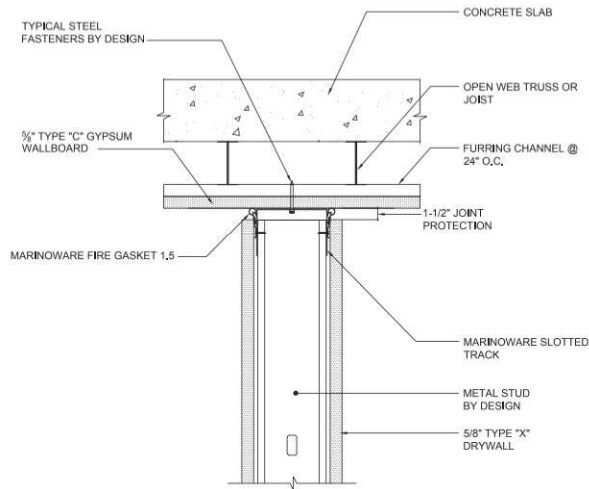
Always check the UL Fire Resistance Directory for full and complete design assembly requirements.

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Typical Details | Fire Gasket 1.5

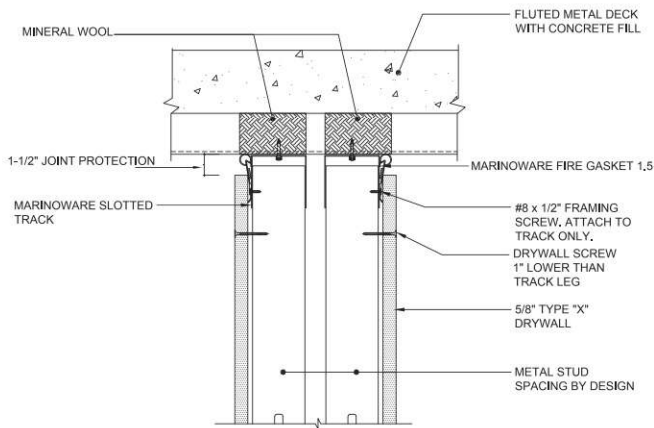
Firestopping for Building Joints

HW-D-0550 1 & 2HR STANDARD WALL, GYPSUM WALLBOARD CEILING



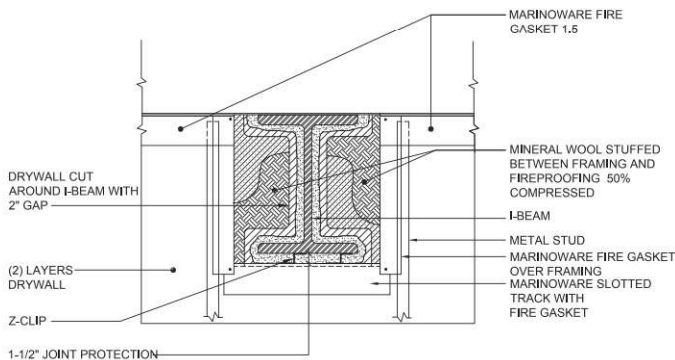
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0553 1 & 2HR CHASE WALL, PERPENDICULAR TO FLUTED DECK



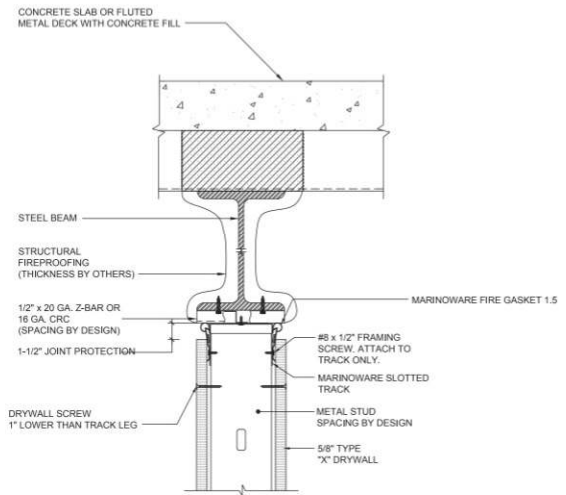
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0573 1 & 2HR STANDARD WALL, @ FLUTED DECK BEAM PENETRATION



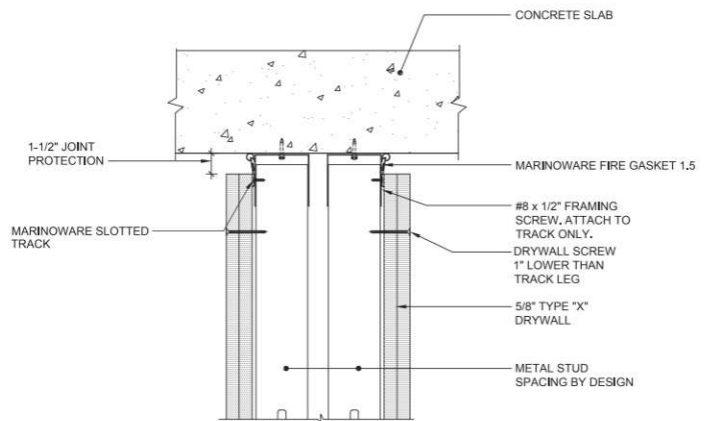
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0551 1 & 2HR PARALLEL & CENTERED DIRECTLY UNDER BEAM



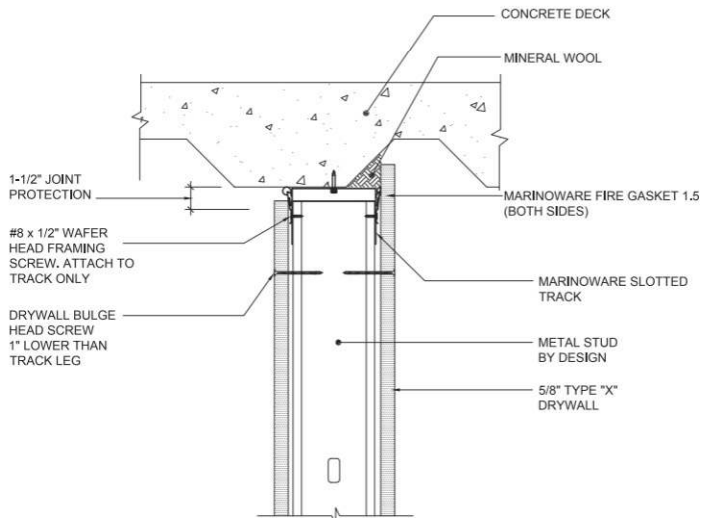
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0554 1 & 2HR 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-0620 1 & 2HR PARALLEL & OFFSET UNDER FLUTED DECK



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

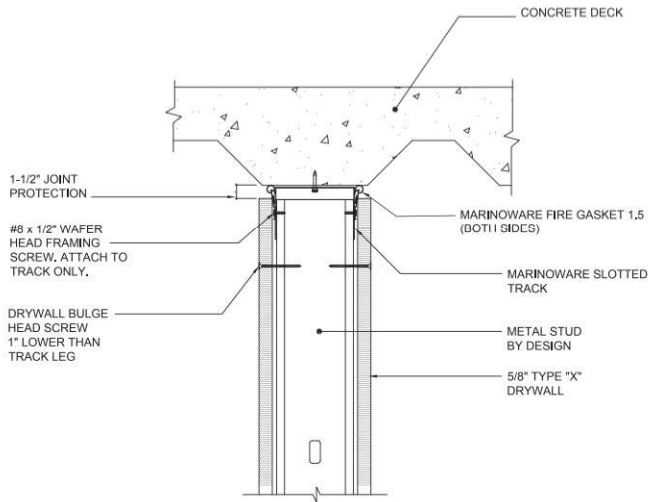
Always check the UL Fire Resistance Directory for full and complete design assembly requirements.

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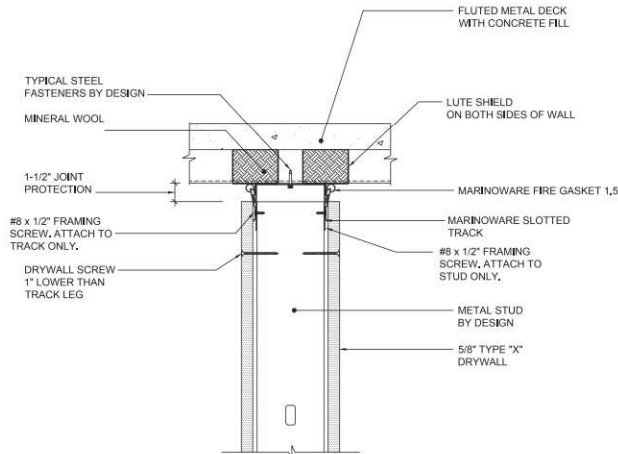
Typical Details | Fire Gasket 1.5

Firestopping for Building Joints

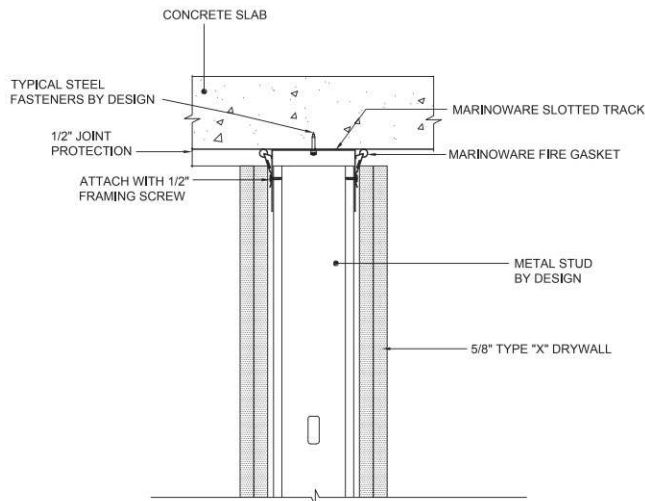
HW-D-0620 1 & 2HR PARALLEL & DIRECTLY UNDER FLUTED DECK



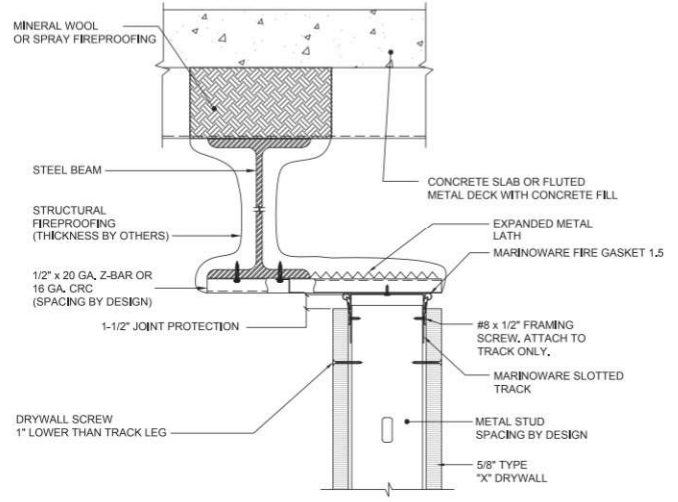
HW-D-0518 1 & 2HR STANDARD WALL, PERPENDICULAR TO FLUTED DECK



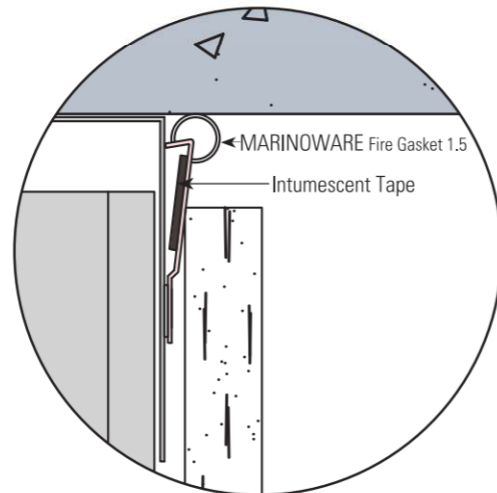
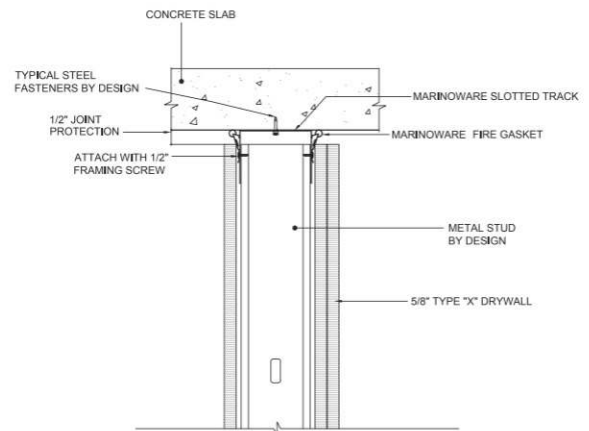
HW-D-0624 1HR STANDARD WALL, CONCRETE SLAB, STC RATING: 55



HW-D-0652 1 & 2HR PARALLEL & CANTILEVERED UNDER BEAM



HW-D-0624 1HR STANDARD WALL, CONCRETE SLAB, STC RATING: 51



FLUTE SHIELD (SPRAYLESS FLUTE CLIP)

Product Description

FLUTE SHIELD is a galvanized steel clip that is designed to conceal and compress mineral wool within the parallel legs of the clip profile. The Flute Shield is sold independently of the mineral wool so that the installer can use any UL certified 4 PSF minimum mineral wool or mineral wool plug compressed to 33% within the perpendicular flute void. The Flute Shield is friction fit over the web and leg of the installed header track on both sides of the wall and no additional fire spray is required over the clip.

- **FLUTE SHIELD** is made for all flute size openings.
- **FLUTE SHIELD** is UL tested and certified to UL-2079 5th Edition.
- **FLUTE SHIELD** provides an L-Rating of less than 1 CFM.
- **FLUTE SHIELD** is tested for air leakage for compliance with Section 713.6 of IBC and CBC.
- **FLUTE SHIELD** provides 1- and 2-hour fire rates with the same clip profile.
- **FLUTE SHIELD** is specifically manufactured and marked to be easily recognizable by inspectors.
- **FLUTE SHIELD** has zero fatigue and will not breakdown for the life of the assembly.
- **FLUTE SHIELD** installs fully cured and has no installation temperature or humidity restrictions.

ASTM & Code Standards

- ASTM A1003, A653, A924
- 2012/2015 IBC
- 2010/2013 CBC
- 2012 AISI
- ASTM E 1966: Standard Test Method of Fire Tests of Firestop Systems – UL 2079 5th Edition Tests for Fire Resistance of Building Joints.
- ASTM E-119 Standard Test Methods for Fire Tests of Building Construction and Material.
- Air leakage tests conducted for compliance with Section 713.6 of IBC and CBC.
- UL listings/approvals – HW-D-0525; HW-D-0518; HW-D-0553.
- Patent pending

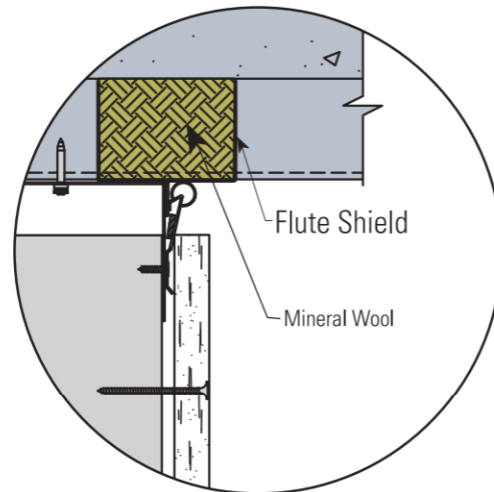
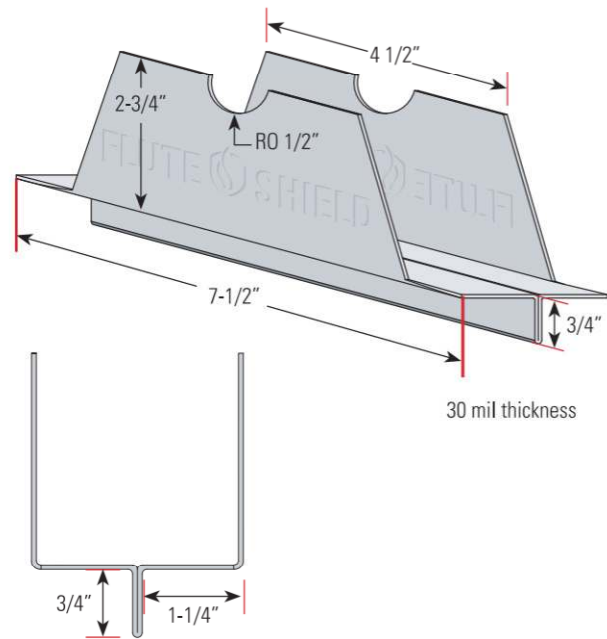
LEED v3 for Building and Design Construction

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

LEED v4 for Building and 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 – Environmental Product Declarations, Options 1 & 2.
- MR Credit: Building Product Disclosure and Optimization – Material Ingredients, Option 1.
- MR Credit: Building Life-Cycle Impact Reduction, Option 4.

FLUTE SHIELD SPRAYLESS FLUTE CLIP



Cold-formed steel framing products contain 30% to 37% recycled steel

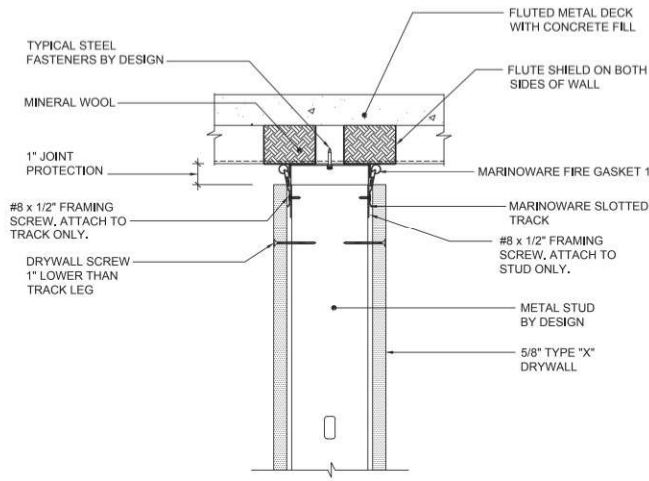
- Total Recycled Content: 36.9%
- Post-Consumer: 19.8%
- Pre-Consumer: 14.4%



Typical Details | Flute Shield

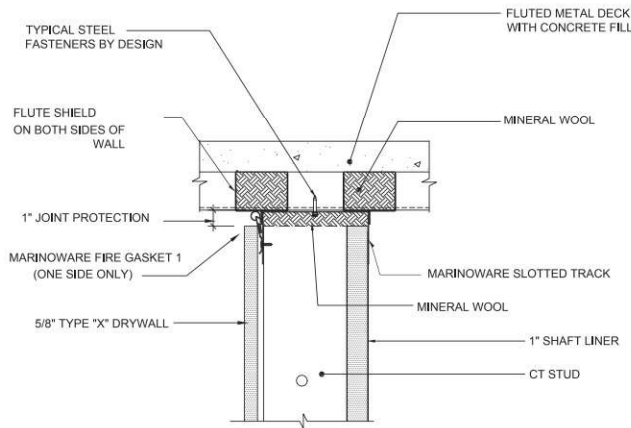
Sprayless Flute Clip

HW-D-0518 1 & 2HR STANDARD WALL, PERPENDICULAR TO FLUTED DECK



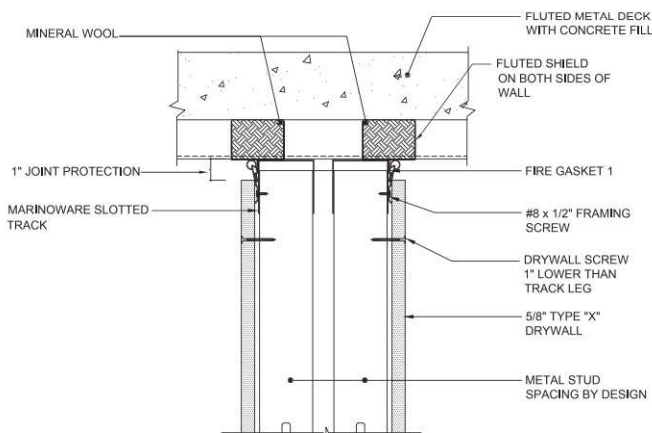
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0525 1 & 2HR SHAFT WALL, PERPENDICULAR TO FLUTED DECK



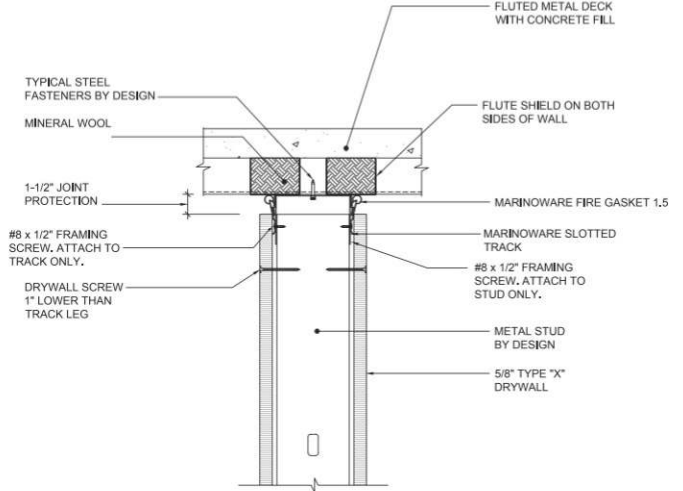
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0553 1 & 2HR CHASE WALL, PERPENDICULAR TO FLUTED DECK



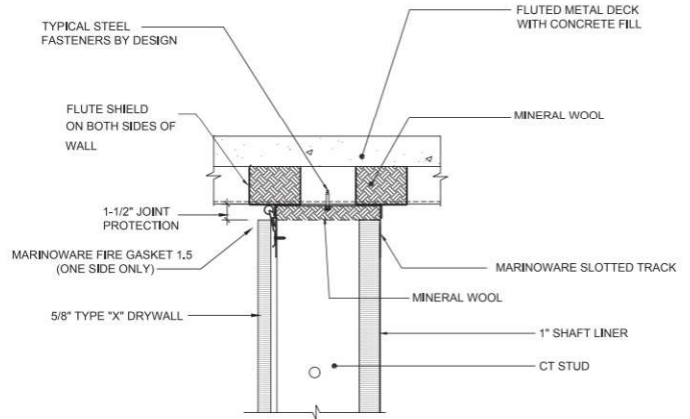
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0518 1 & 2HR STANDARD WALL, PERPENDICULAR TO FLUTED DECK



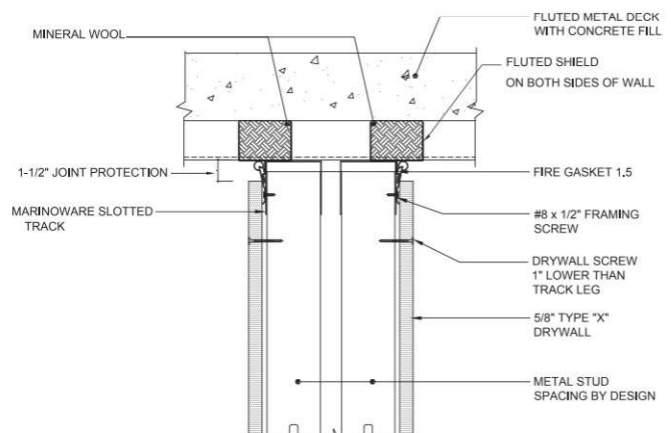
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0525 1 & 2HR 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-0553 1 & 2HR 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

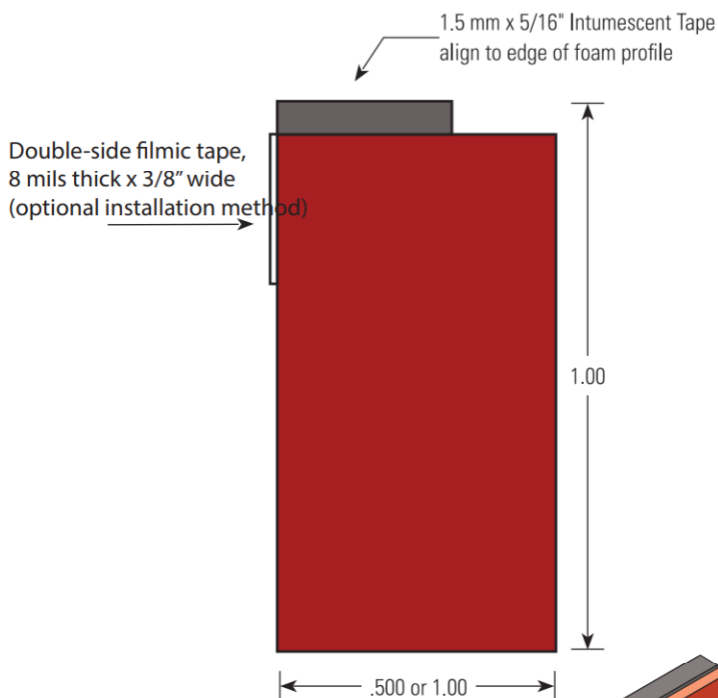
MARINO\WARE HOTROD TYPE-X COMPRESSIBLE FIRESTOPPING

Product Description

MARINO\WARE HOTROD Type-X is a compressible intumescent firestopping that provides 1 and 2 hour fire-ratings for both dynamic and static joints according to UL-2079 5th edition (for both standard walls and shaft walls) and is sound tested according to ASTM E90, tested up to a STC 68.

- **HOTROD** has a rectangular profile and is easily compressed into the deflection gap between the edge of the drywall and adjoining structure. Can be used on fluted deck or concrete, no fire spray required.
- **HOTROD** is red in color and is easily identified by the inspector.
- **HOTROD** is non-wicking as it does not wick water, and is non-hygroscopic. HOTROD will not absorb water readily under field conditions.
- **HOTROD** takes the place of BOTH fire and sound sealant and will not shrink, pull away, or harden over time.
- **HOTROD** can be installed by itself or can be covered with tape and joint compound for exposed walls.
- **HOTROD** provides BOTH 1 and 2 hour fire ratings with both 1/2" x 1" and 1" x 1" profiles.
 - **HOTROD** provides an L-rating Less Than 1 CFM/Lin Ft for ambient and 400 degrees F.

Once installed per the appropriate UL report and manufacturers guidelines the HOTROD's intumescent material will not breakdown, and will provide consistent fire protection for the sustainable life of the assembly.

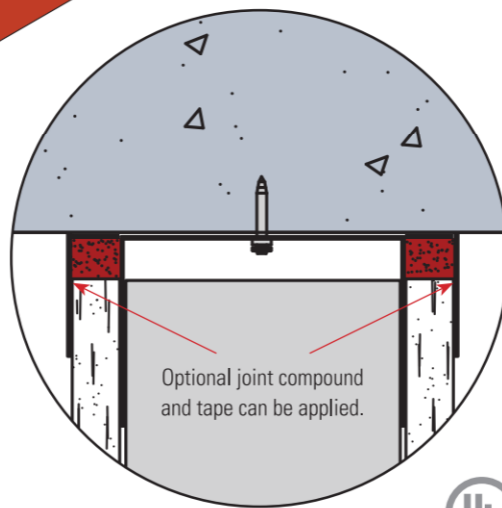
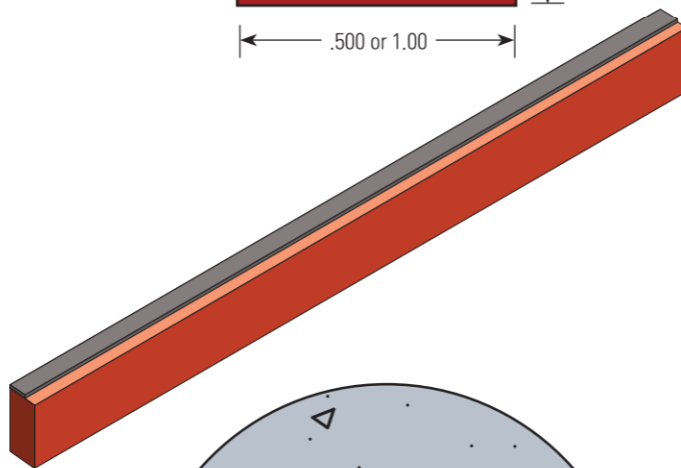


Packaging

- 4'-0" lengths; 1/2" x 1" 20 pieces per box; 1" x 1" 10 pieces per box, 30 boxes per pallet.
- When properly stored indoors, and in original packaging HOTROD will not breakdown and has no expiration date.

ASTM & Code Standards

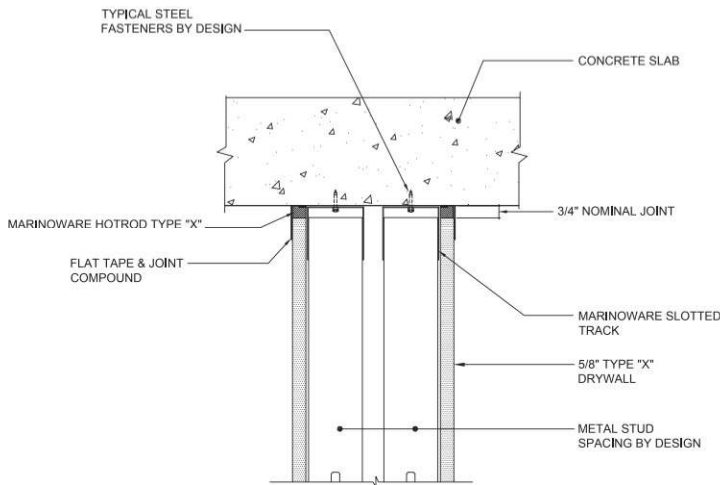
- ASTM E 1966: Standard Test Method of Fire Tests of Firestop Systems – UL 2079 Tests For Fire Resistance of Building Joints, 5th Edition.
- ASTM E-119 Standard Test Methods for Fire Tests of Building Construction and Material – Sound Tested in accordance with ASTM E90-09 – Air leakage tests conducted for compliance with Section 713.6 of IBC and CBC.
- Intumescent Firestopping tested per ASTM E 84 UL723, Flame Spread 5, Smoke Index 5.
- UL listings/approvals – HW-D-0624; HW-D-0625; HW-D-0554; HW-D-0550; BW-S-0024; WW-D-0104; WW-S-0057; HW-D-0514; HW-D-0518; HW-D-0524; HW-D-0652; HW-D-0620; HW-D-0553; HW-D-0621; WWS-S-0061
- IBC: 2012, 2015, 2018
- CBC: 2013, 2016
- AISI: S100-07, S100-12, S100-16, S220-11, S220-15
- U.S. Patent No. 9,683,364 and US 10, 184, 246



Typical Details | HOTROD Type-X

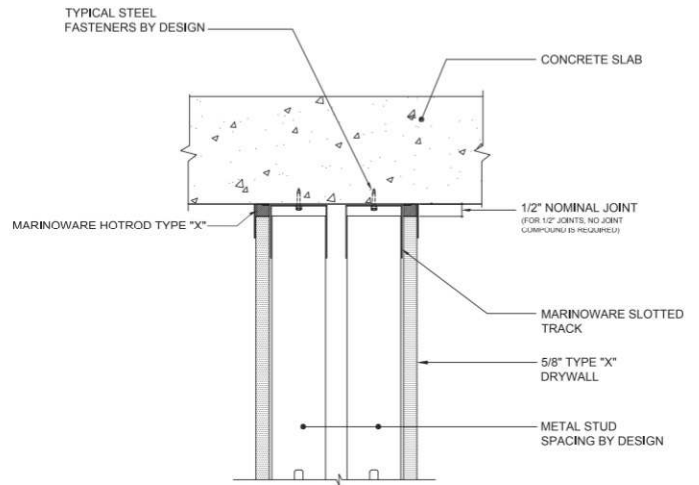
Pre-Formed Compressible Firestopping

HW-D-0554 1 & 2HR STANDARD CHASE WALL, CONCRETE SLAB



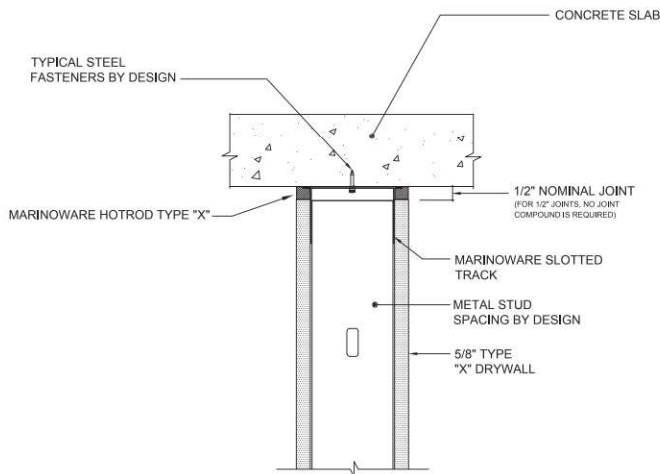
*NOTE: SINGLE LAYER OF 5/8\"/>

HW-D-0554 1 & 2HR STANDARD CHASE WALL, CONCRETE SLAB



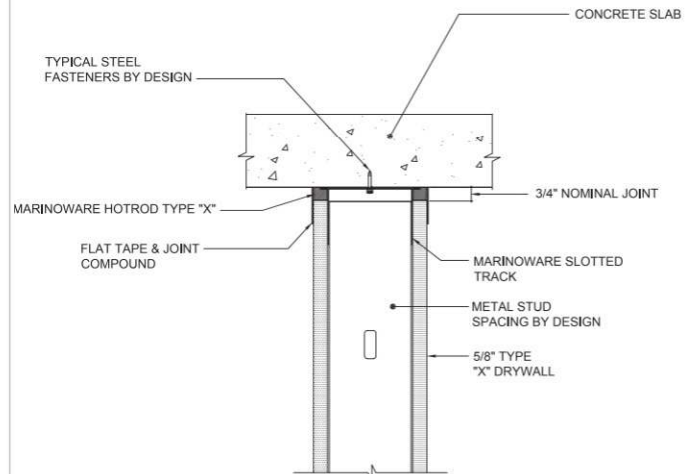
*NOTE: SINGLE LAYER OF 5/8\"/>

HW-D-0624 1 & 2HR STANDARD WALL, CONCRETE SLAB



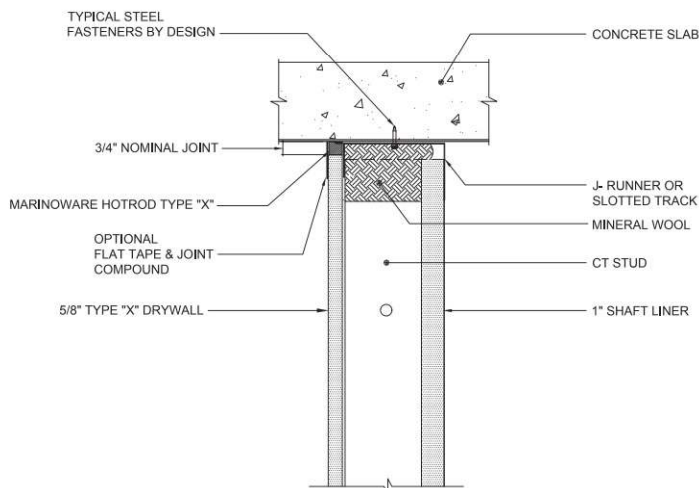
*NOTE: SINGLE LAYER OF 5/8\"/>

H W-D-0624 1&2HR STANDARD WALL, CONCRETE SLAB



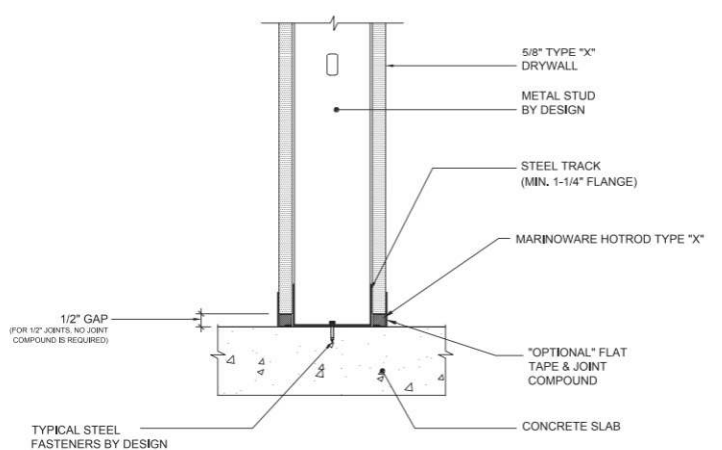
*NOTE: SINGLE LAYER OF 5/8\"/>

HW-D-0625 1 & 2HR SHAFT WALL, CONCRETE SLAB



*NOTE: SINGLE LAYER OF 5/8\"/>

BW-S-0024 1 & 2HR BOTTOM WALL STATIC JOINT



*NOTE: SINGLE LAYER OF 5/8\"/>

NOTE: 1/2\"/>

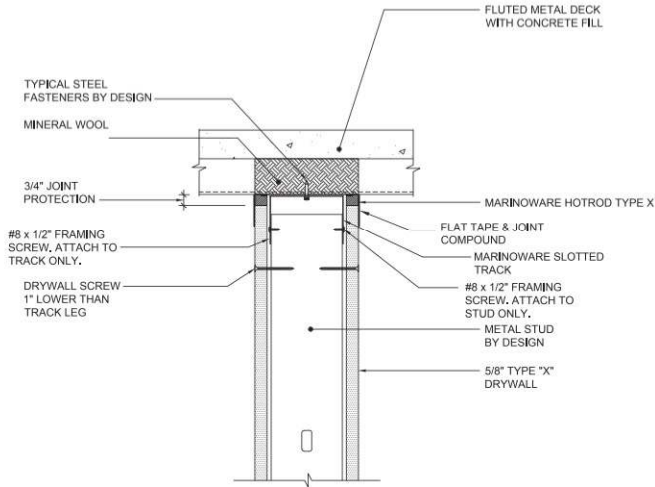
Always check the UL Fire Resistance Directory for full and complete design assembly requirements.

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Typical Details | HOTROD Type-X

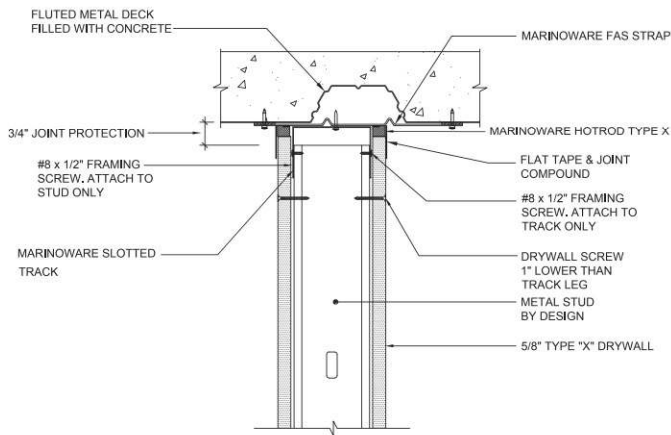
Pre-Formed Compressible Firestopping

HW-D-0518 1 & 2HR STANDARD WALL, PERPENDICULAR TO FLUTED DECK



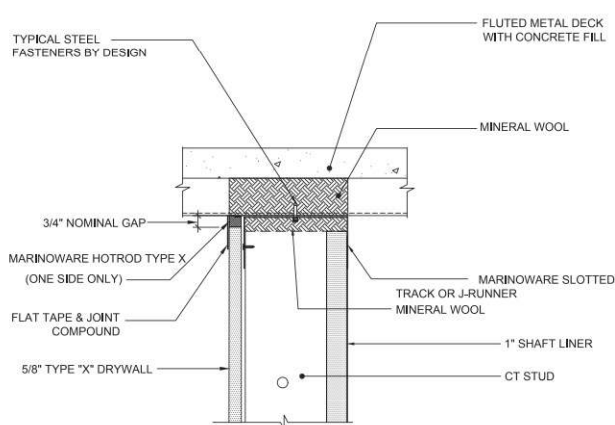
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0524 1 & 2HR OFFSET & PARALLEL UNDER FLUTED DECK



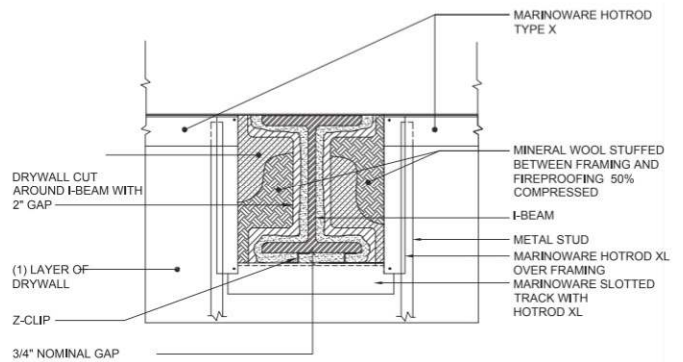
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0525 1 & 2HR SHAFT WALL, PERPENDICULAR TO FLUTED DECK



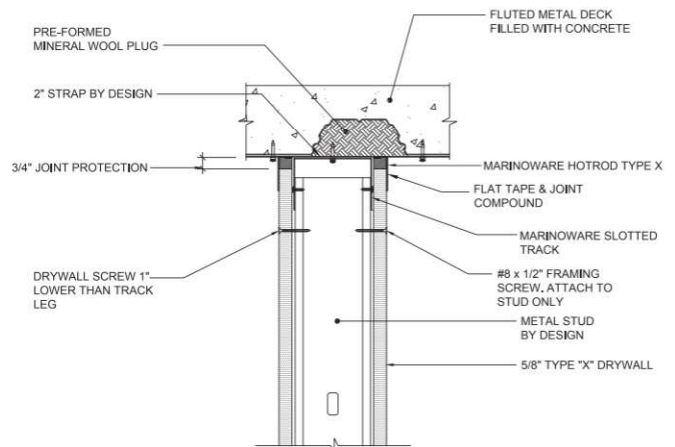
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0573 1 & 2HR STANDARD WALL, @ FLUTED DECK BEAM PENETRATION



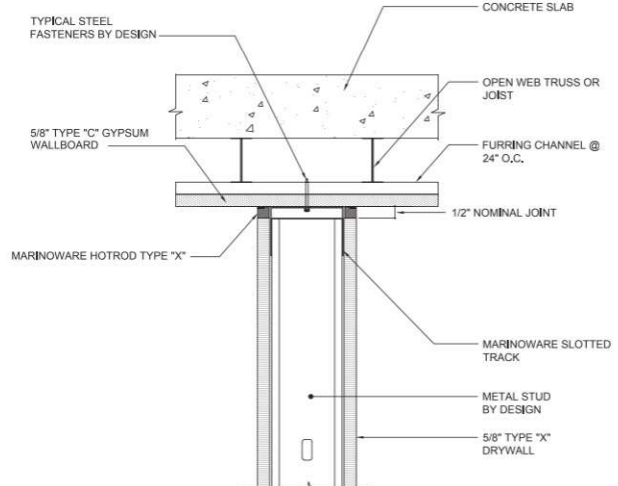
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0524 1 & 2HR 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-0550 STANDARD WALL, GYPSUM WALLBOARD CEILING



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

NOTE: 1/2" wide joints require no joint compound over HOTROD

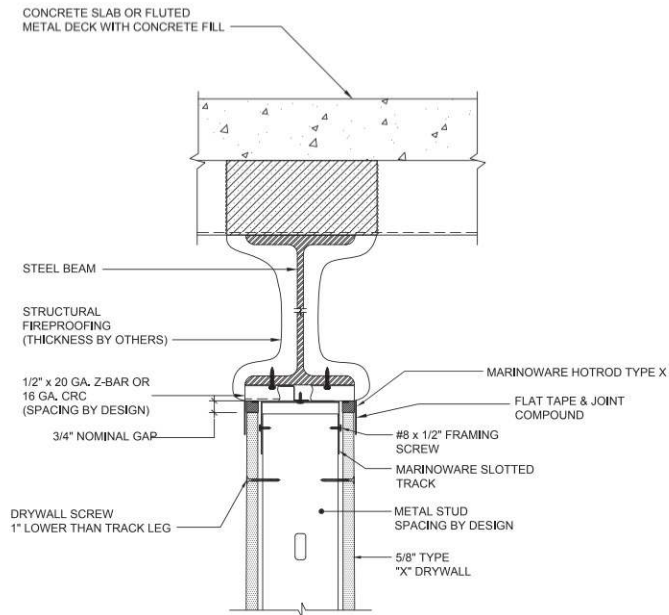
Always check the UL Fire Resistance Directory for full and complete design assembly requirements.

www.marinoware.com | 866.627.4661

Typical Details | HOTROD Type-X

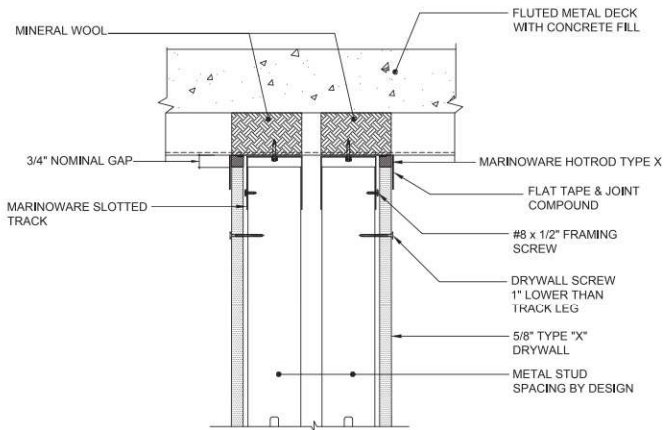
Pre-Formed Compressible Firestopping

HW-D-0551 1 & 2HR PARALLEL & CENTERED DIRECTLY UNDER BEAM



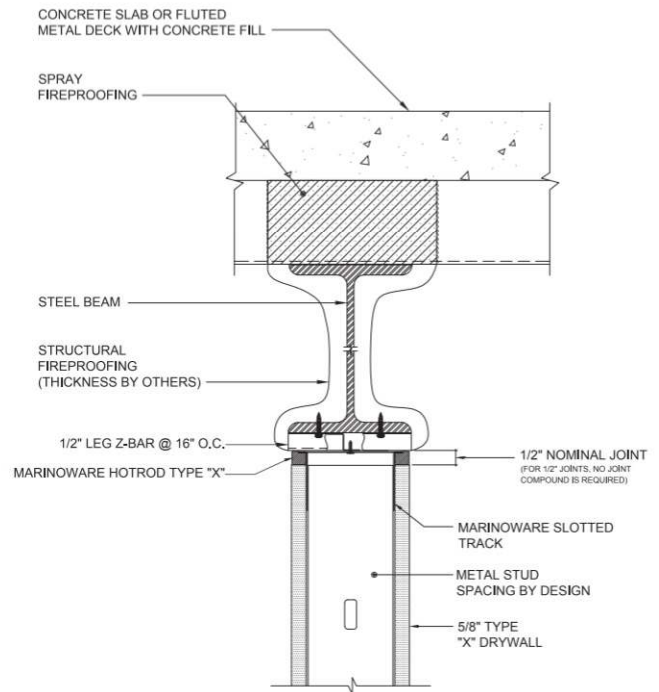
*NOTE: SINGLE LAYER OF 5/8\"TYPE X\" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0553 1 & 2HR CHASE WALL, PERPENDICULAR TO FLUTED DECK



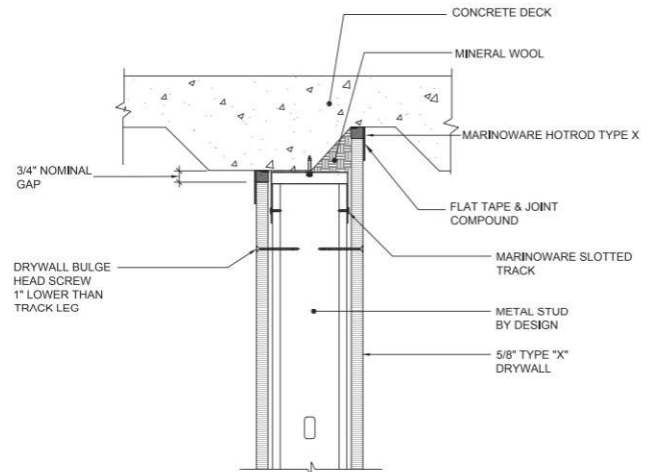
*NOTE: SINGLE LAYER OF 5/8\"TYPE X\" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0551 1 & 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-0620, 1 & 2HR PARALLEL & OFFSET UNDER FLUTED DECK



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

NOTE: 1/2\" wide joints require no joint compound over HOTROD

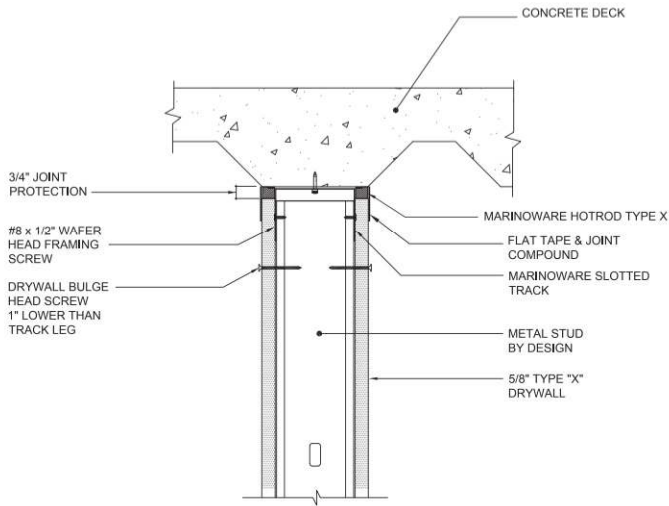
Always check the UL Fire Resistance Directory for full and complete design assembly requirements.

www.marinoware.com | 866.627.4661

Typical Details | HOTROD Type-X

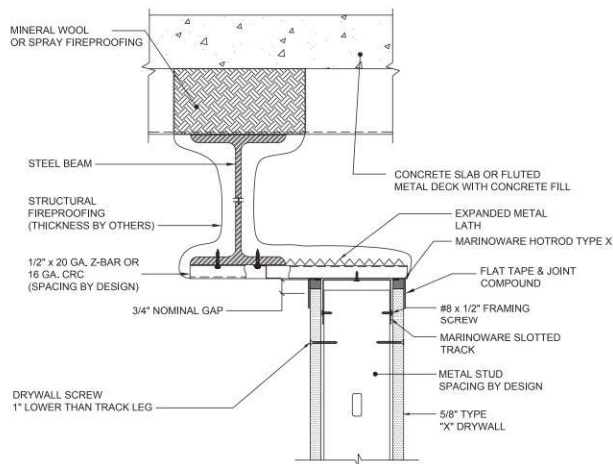
Pre-Formed Compressible Firestopping

HW-D-0620, 1 & 2HR PARALLEL & DIRECTLY UNDER FLUTED DECK



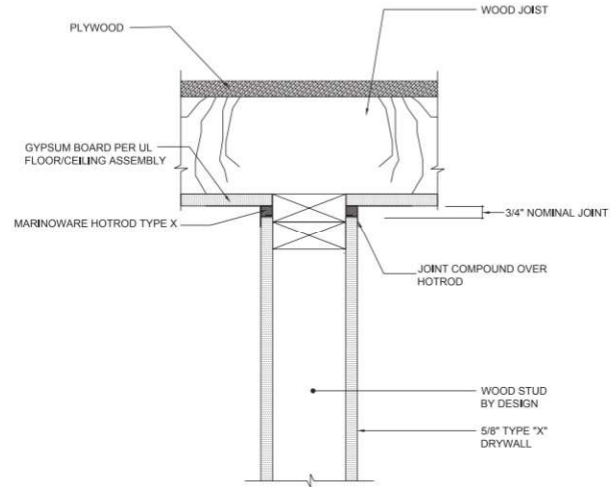
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0652 1 & 2HR PARALLEL & CANTILEVERED UNDER BEAM



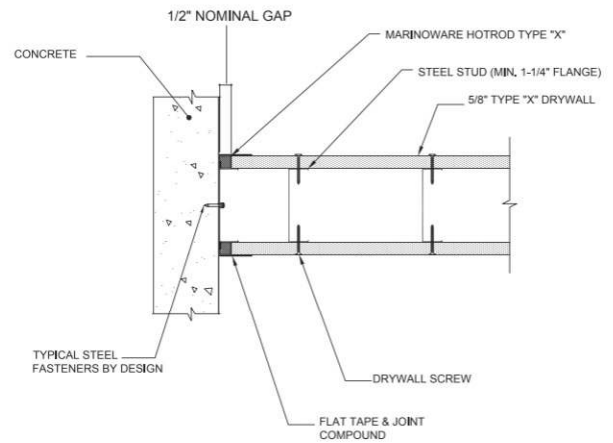
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-S-1028 1 & 2HR HEAD OF WALL JOINT AT WOOD FRAMING



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

WW-D-0104 1 & 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

NOTE: 1/2" wide joints require no joint compound over HOTROD

Always check the UL Fire Resistance Directory for full and complete design assembly requirements.

www.marinoware.com | 866.627.4661

MARINO\WARE FAS J-TRACK • 33 MIL THICKNESSES

Geometric Properties

FAS J-Track has longer legs than standard J-Runner to provide greater deflection at the head-of-wall joint. FAS J-Track provides $\frac{3}{4}$ " overall unencumbered movement providing the best possible L-Rating (smoke) for 1 and 2 hour fire ratings. FAS J-Track also eliminates the installation of fire caulking or additional drywall ribs. FAS J-Track is manufactured in 33 mil thick G40 hot-dipped galvanized steel. G60 and G90 are available only upon special request and will require extended lead-times.

Steel Thickness

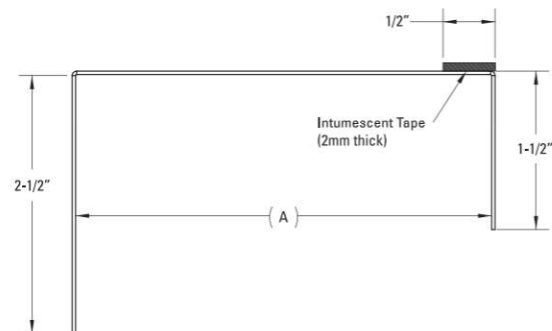
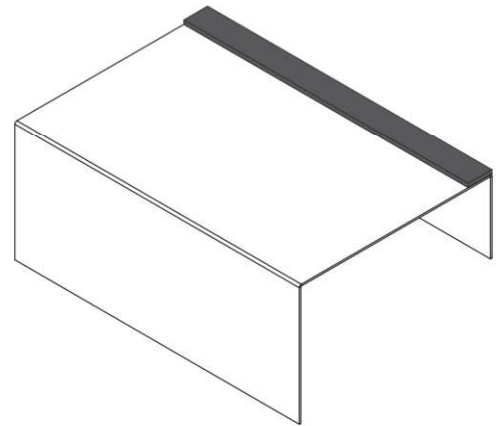
Thickness (mil.)	Design Thickness (in.) ¹	Minimum Thickness (in.) ^{1,2}	Yield (KSI)	Web Sizes (in.) (A)	Leg Sizes (in.)
33	0.0346	0.0329	33	2-1/2, 4, 6	1-1/2 & 2-1/2

Notes:

1. Uncoated steel thickness. Thickness is for carbon steel.
2. Minimum Thickness represents 95% of the design thickness and is the minimum acceptable thickness delivered to the job site, based on Section A4.3 of the AISI S100-2012.

ASTM & Code Standards

- ASTM A653/653M, A924/924M, A1003/1003M
- ASTM A1003, A653, A924, C645, C754
- 2012/2015 IBC
- 2010/2013 CBC
- AISI 2012
- U.S. Patent #8,640,415 B2
- ASTM E 1966: Standard Test Method of Fire Tests of Firestop Systems
- UL 2079 Tests For Fire Resistance of Building Joints, 5th Edition.
- ASTM E-119 Standard Test Methods for Fire Tests of Building Construction and Material
- Air leakage tests conducted for compliance with Section 713.6 of IBC and CBC



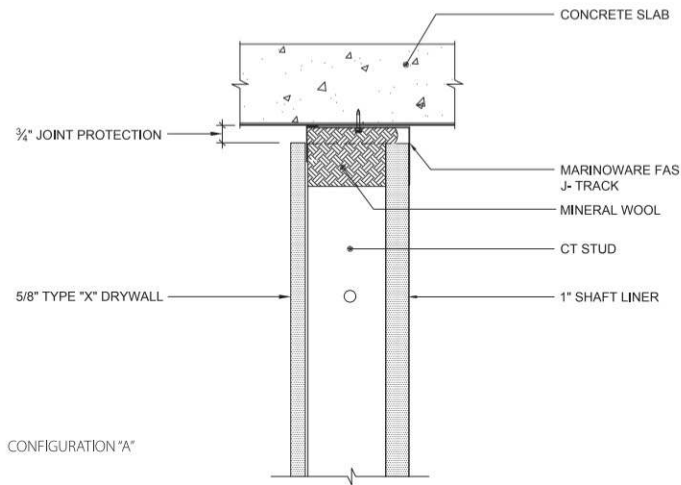
LEED v4 for Building and Design Construction

- 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 – Environmental Product Declarations, Options 1 & 2.
- MR Credit: Building Product Disclosure and Optimization – Material Ingredients, Option 1.
- MR Credit: Building Life-Cycle Impact Reduction, Option 4.

Typical Details | FAS J-Track

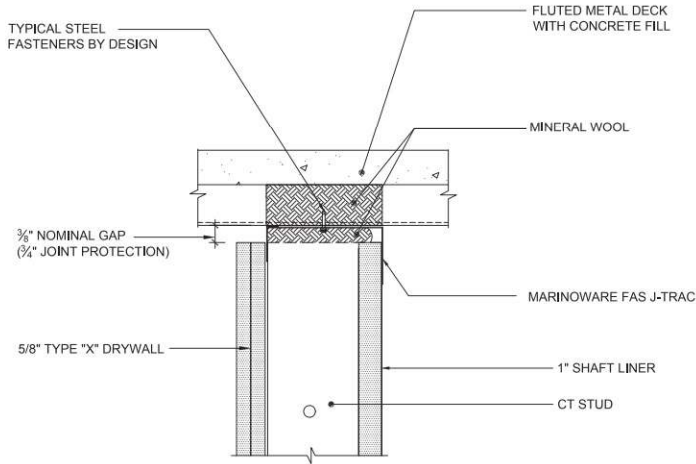
Composite Steel/Intumescent Firestop Framing Assemblies

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



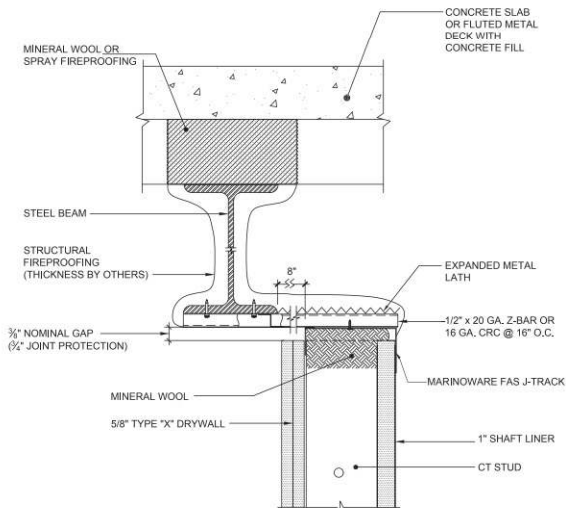
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

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



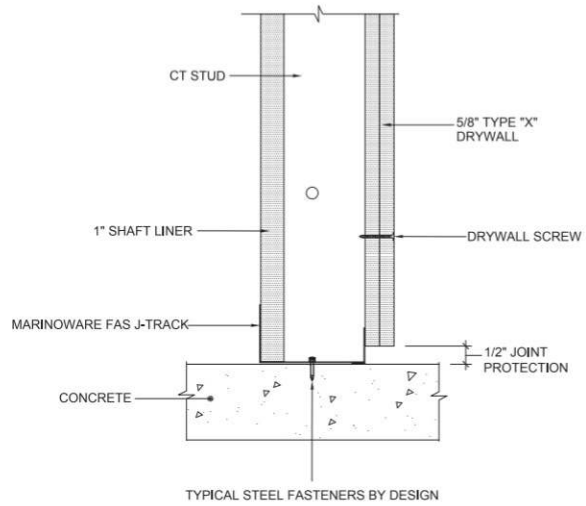
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

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



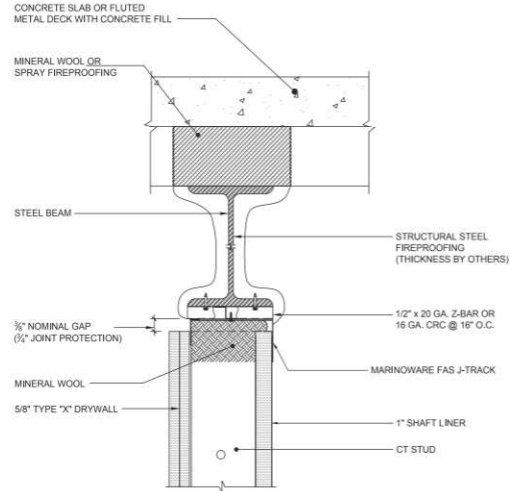
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

BW-S-0053 SHAFT WALL BOTTOM OF WALL



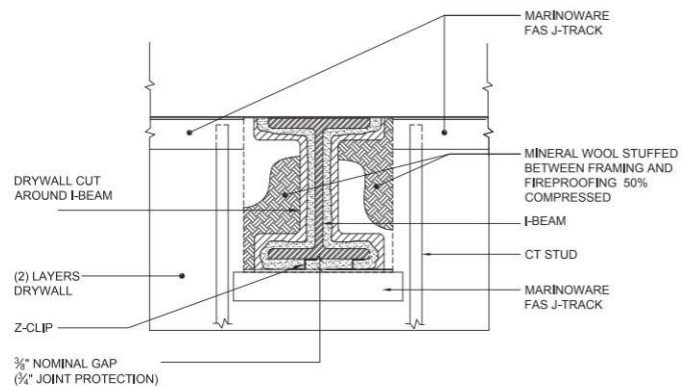
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0622 SHAFT WALL, 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 SHAFT WALL, @ FLUTED DECK BEAM PENETRATION



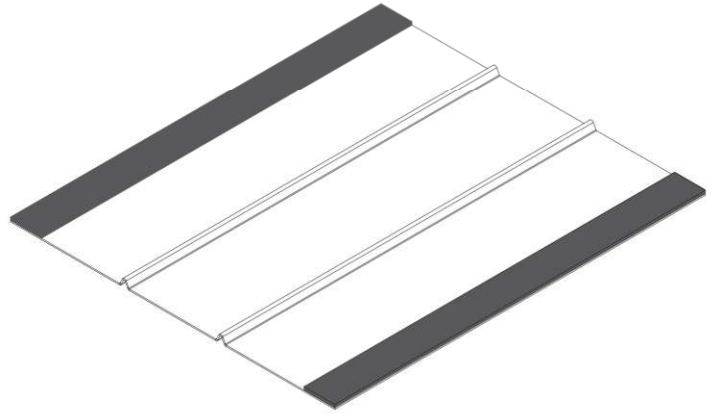
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

Always check the UL Fire Resistance Directory for full and complete design assembly requirements.

MARINO\WARE FAS STRAP (FIRESTOP FOR FLUTED DECKING)

Description

MARINO\WARE FAS Strap is a flat strap with 2 strips of 1/2" intumescent. FAS Strap is installed continuous and parallel with the flutes and provides firestopping within the flute void while eliminating mineral wool and providing continuous backing for wall framing. 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 gauge (33 mils) with a minimum G40 coating complying with ASTM A924, 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. The FAS STRAP is listed under Underwriters Laboratories for one and two hour head of wall fire rated wall assemblies.



Member Width (in.)	Length (ft.)	Steel Thickness mil (gauge)
10-1/2	10	33, 54 (20, 16)

Patent Pending

ASTM's & Code Standards

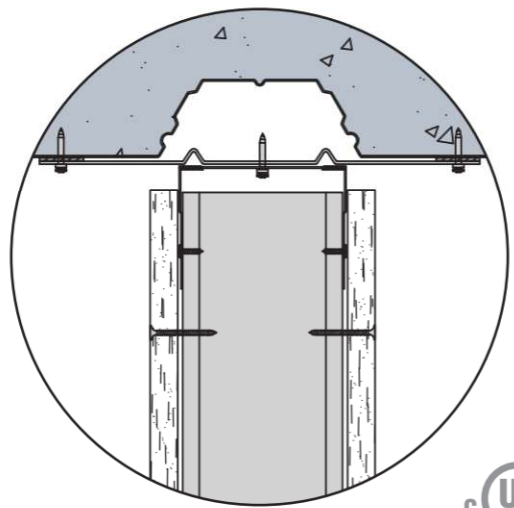
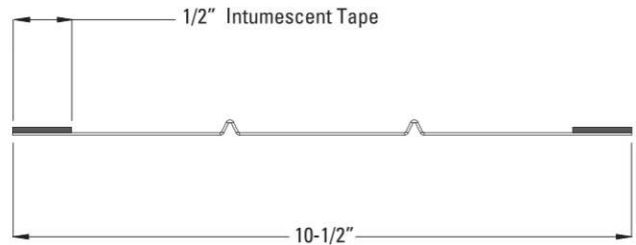
- ASTM A653, C645, A1003, A924
- ASTM E 1966: Standard Test Method of Fire Tests of Firestop Systems
- UL 2079 Tests For Fire Resistance of Building Joints
- ASTM E-119 Standard Test Methods for Fire Tests of Building Construction and Material
- Air leakage tests conducted for compliance with Section 713.6 of ICC

LEED v3 for Building and Design Construction

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

LEED v4 for Building and 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 – Environmental Product Declarations, Options 1 & 2.
- MR Credit: Building Product Disclosure and Optimization – Material Ingredients, Option 1.
- MR Credit: Building Life-Cycle Impact Reduction, Option 4.



For more information, please contact Marino\WARE® Technical Services at 866.545.1545

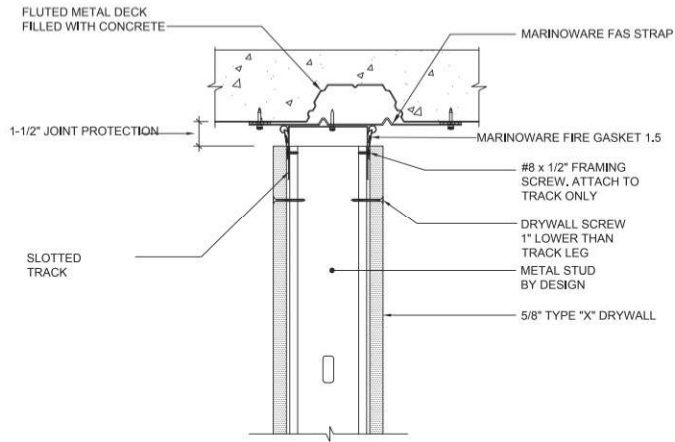
This technical information reflects the most current information available and supersedes any and all previous publications effective April 29, 2022 | MW-FS Catalog | ©WARE Industries, Inc. 2022



Typical Details | FAS Strap

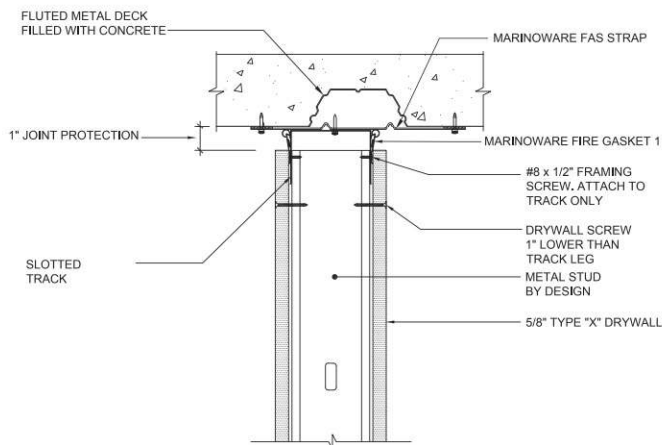
Composite Steel/Intumescent Firestop Framing Assemblies

HW-D-0524 1 & 2HR OFFSET & PARALLEL UNDER FLUTED DECK



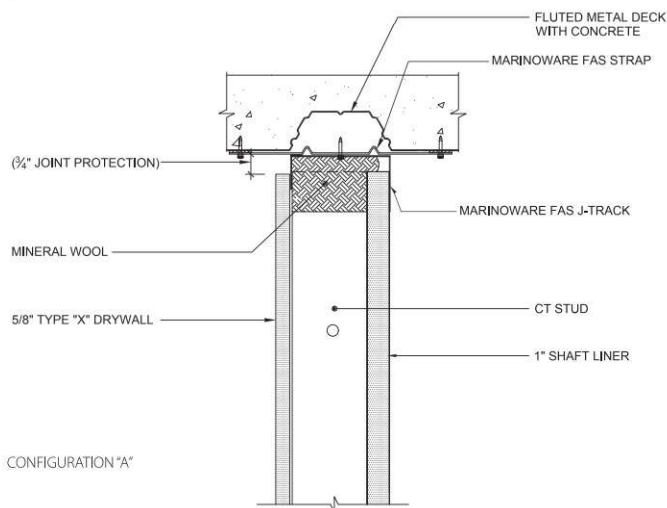
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0524 1 & 2HR OFFSET & PARALLEL UNDER FLUTED DECK



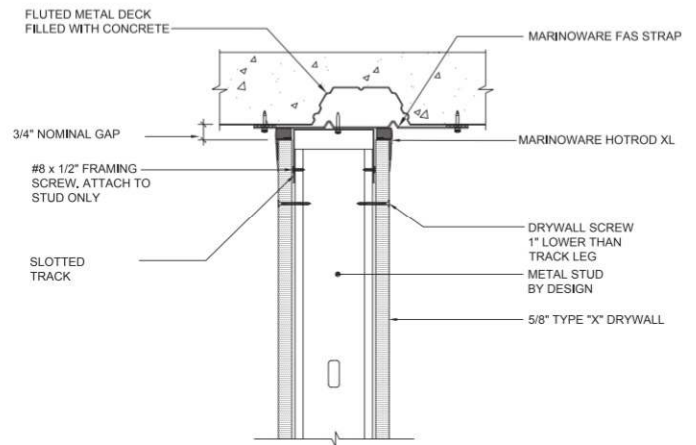
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

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



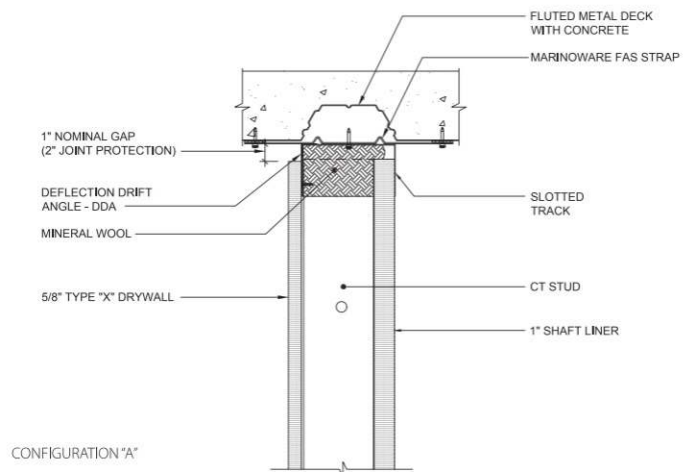
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0524 1 & 2HR OFFSET & PARALLEL UNDER FLUTED DECK



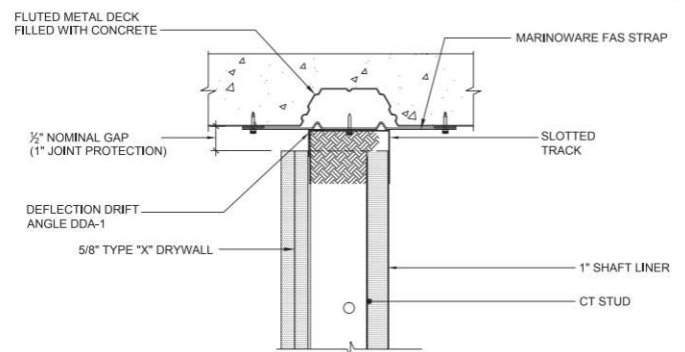
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

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 SHAFT WALL, DIRECTLY UNDER FLUTED DECK



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

Always check the UL Fire Resistance Directory for full and complete design assembly requirements.

www.marinoware.com | 866.627.4661

MARINO\WARE FAS TRACK 1000

Description

MARINO\WARE FAS Track 1000 is a slotted deflection track that offers fire and air (smoke) protection, eliminating the need for fire and sound sealant. 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. FAS Track 1000 has been tested with Underwritten Laboratories in accordance with UL 2079.

"A" Track Member Width (in.)	Flange Size (in.)	Length (ft.)	"G" Steel Thickness mil (gauge)
2-1/2, 3-5/8, 4	2-3/4	10	30 (20DW), 33 (20STR), 43 (18), 54 (16)
6, 8	2-3/4	10	30 (20DW), 33 (20STR), 43(18), 54(16), 68(14)

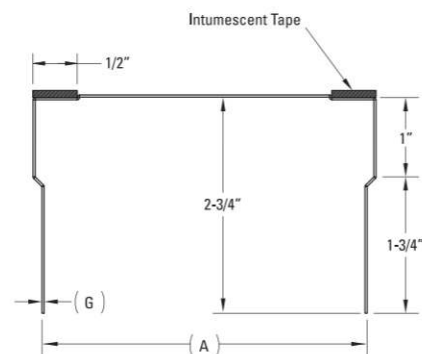
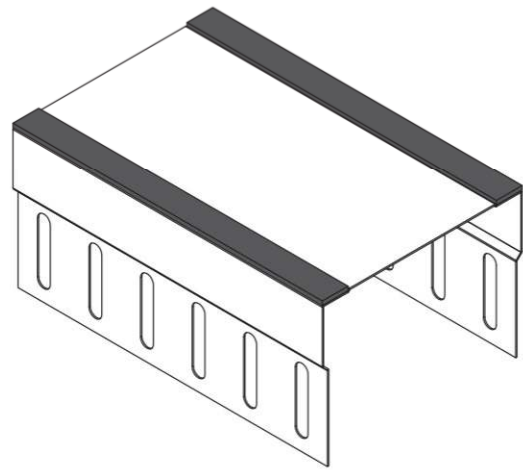
U.S. Patent #8,640,415 B2

ASTM's & Code Standards

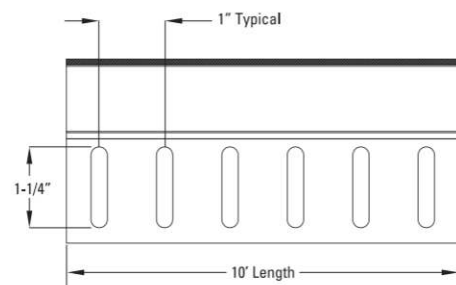
- ASTM A653/653M, A924/924M, A1003/1003M & C645
- ASTM E 1666: Standard Test Method of Fire Tests of Firestop Systems
- UL 2079 Tests For Fire Resistance of Building Joints
- ASTM E-119 Standard Test Methods for Fire Tests of Building Construction and Material
- Sound Tested in accordance with ASTM E90-09
- Air leakage tests conducted for compliance with Section 713.6 of IBC and CBC

LEED v4 for Building and 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 – Environmental Product Declarations, Options 1 & 2.
- MR Credit: Building Product Disclosure and Optimization – Material Ingredients, Option 1.
- MR Credit: Building Life-Cycle Impact Reduction, Option 4.



*Also available with tape on one side only for double wall construction.



MARINO\WARE FAS TRACK 1000DL (DEEP LEG)

Product Description

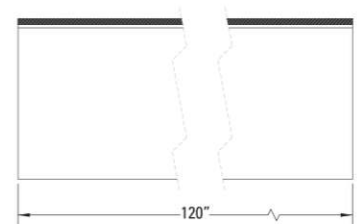
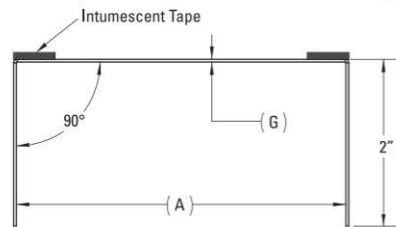
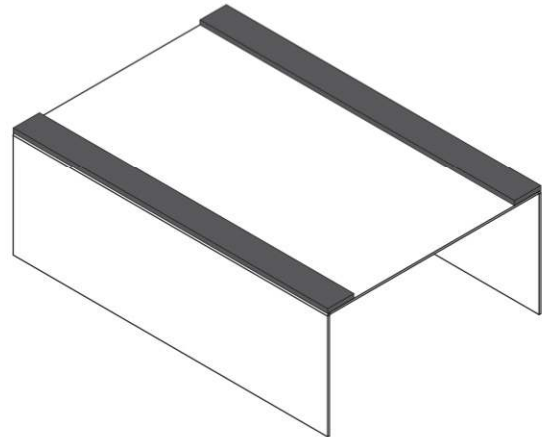
MARINO\WARE FAS Track 1000 DL is a deflection track with 1/2" Intumescent Tape that offers fire and air (smoke) protection, eliminating the need for fire and sound sealant. The section is fabricated from hot-dipped galvanized steel complying with ASTM A653, and ASTM A1003 Grade 33 Type H for 33 ksi yield 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. FAS Track 1000 DL has been tested with Underwritten Laboratories in accordance with UL 2079.

Steel Thickness

Thickness (mil.)	Design Thickness (in.) ¹	Minimum Thickness (in.) ^{1,2}
30	0.0312	0.0296
33	0.0346	0.0329
43	0.0451	0.0428
54	0.0566	0.0538

Notes:

1. Uncoated steel thickness. Thickness is for carbon steel.
2. Minimum Thickness represents 95% of the design thickness and is the minimum acceptable thickness delivered to the job site, based on Section A3.4 of the AISI S100-2012.



ASTM & Code Standards

- ASTM A653/653M, A924/924M, A1003/1003M, C645 & C754
- 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 v4 for Building and Design Construction

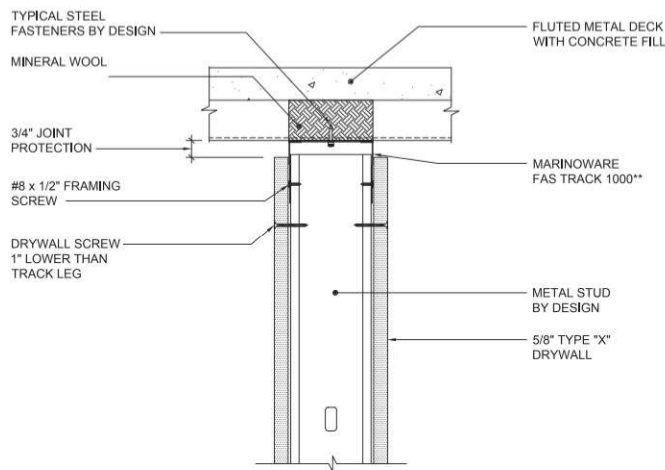
- MR Prerequisite: Construction and Demolition Waste Management Planning
- MR Credit: Construction and Demolition Waste Management
- MR Credit: Building Product Disclosure and Optimization – Sourcing of Raw Materials, Option 2
- MR Credit: Building Product Disclosure and Optimization – Environmental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



Typical Details | FAS Track 1000

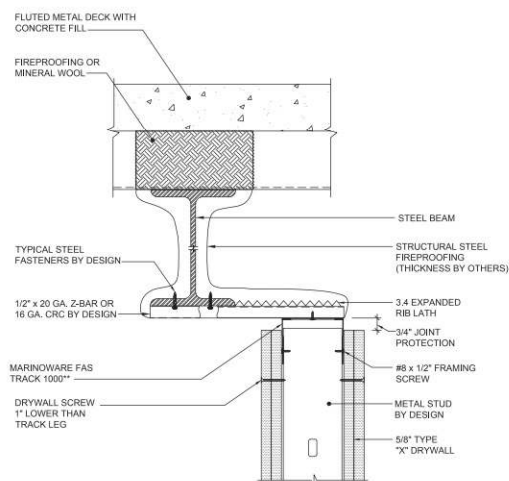
Composite Steel/Intumescent Firestop Framing Assemblies

HW-D-0518 1 HR. STANDARD WALL, PERPENDICULAR TO FLUTED DECK



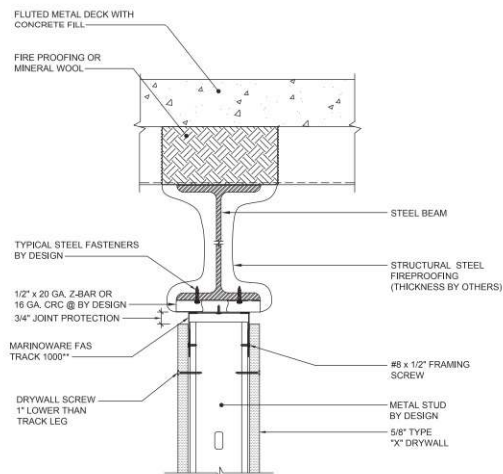
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0652 2 HR. STANDARD WALL, CANTILEVERED UNDER BEAM*



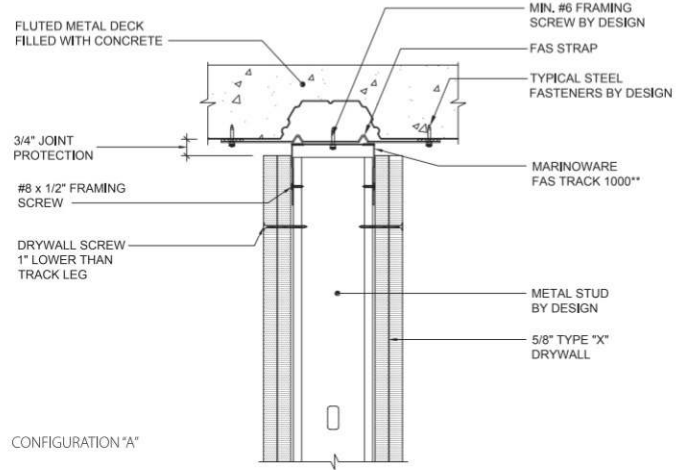
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

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



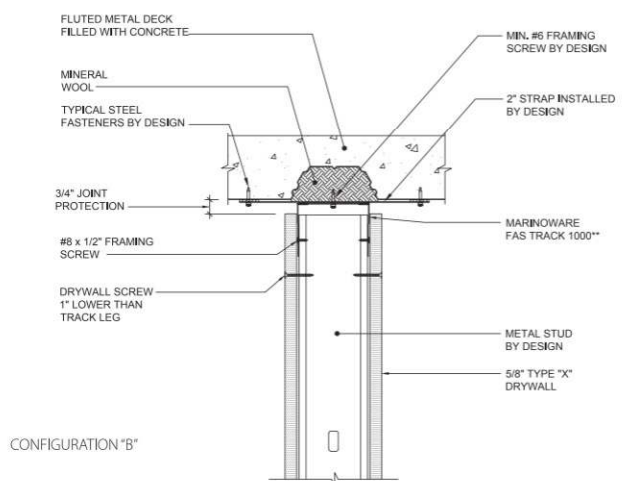
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

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



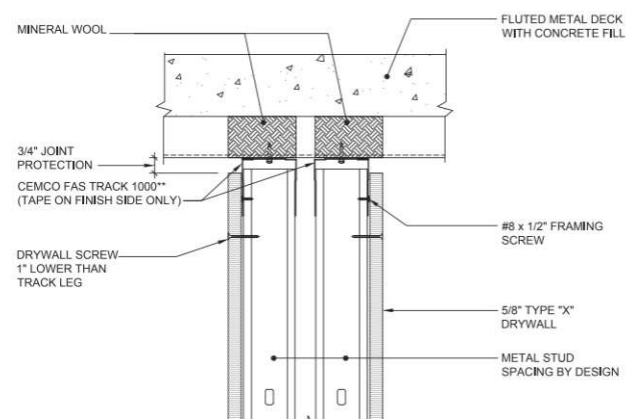
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0524 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

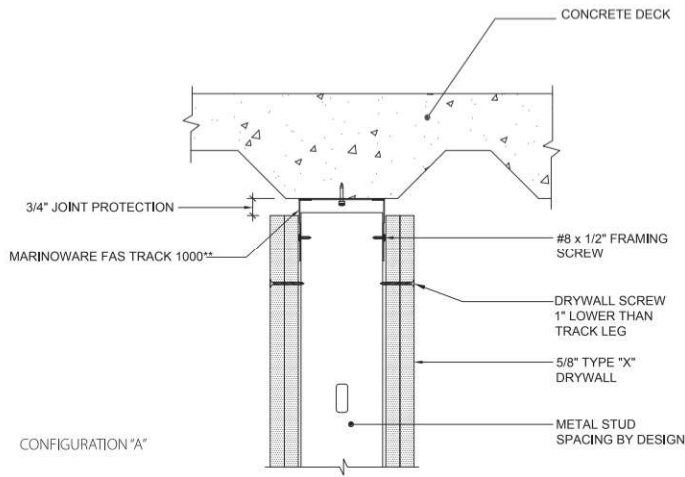
HW-D-0553 1 HR. CHASE WALL, PERPENDICULAR TO FLUTED DECK



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

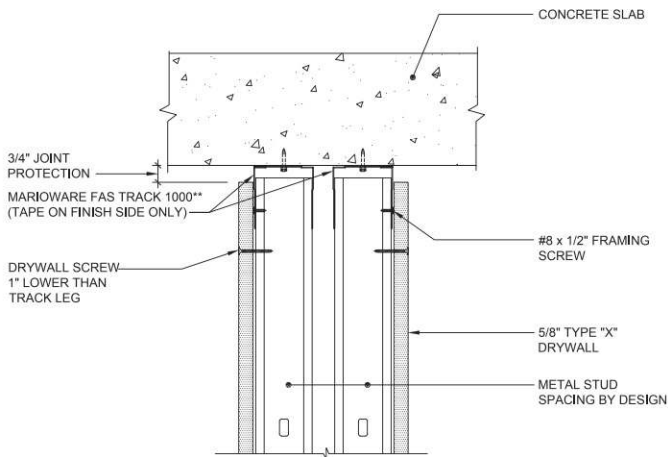
**If the IBC requires UL-2079 5th edition, additional fill material may be needed in the deflection joint

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



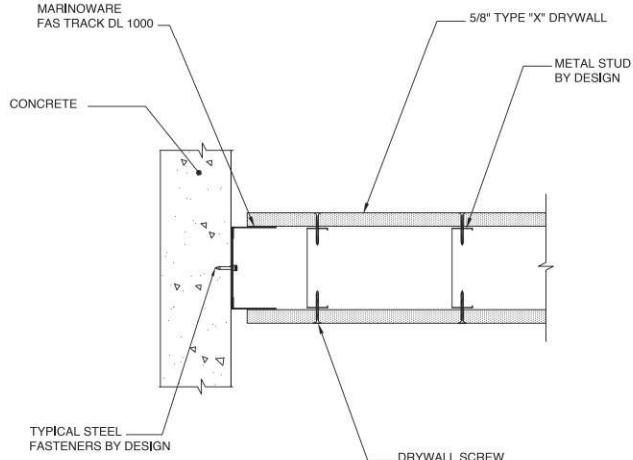
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

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



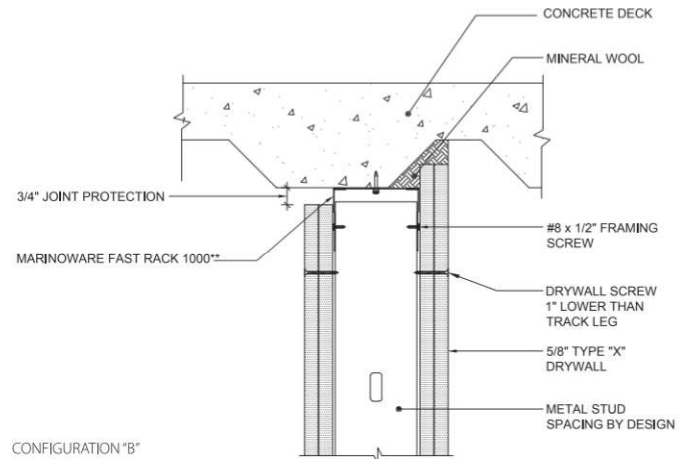
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

WW-D-0104 1 HR. VERTICAL TIE-IN TO CONCRETE SLAB



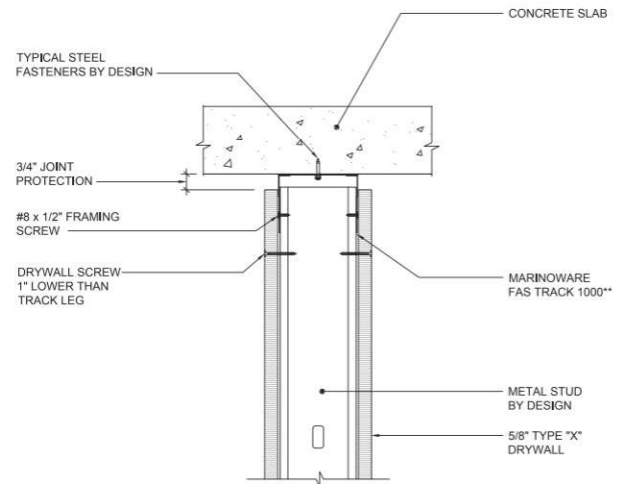
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

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



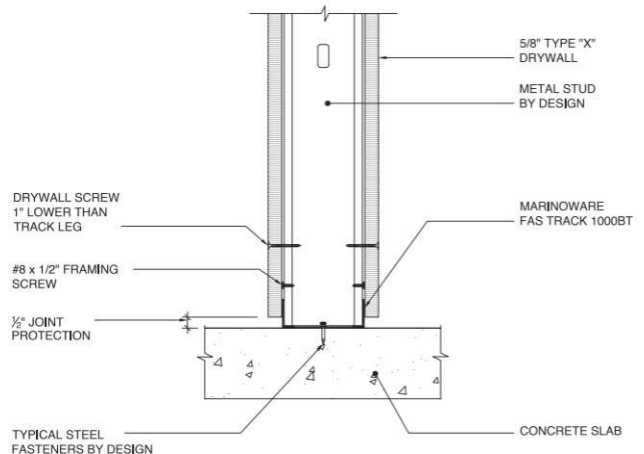
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

HW-D-0624 1 HR. CONCRETE SLAB-FLAT TAPE & JOINT COMPOUND



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

BW-S-0024 1 HR. BOTTOM WALL STATIC JOINT



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

**If the IBC requires UL-2079 5th edition, additional fill material may be needed in the deflection joint

Always check the UL Fire Resistance Directory for full and complete design assembly requirements.

MARINO\WARE FAS TRACK BT 1000

Product Description

MARINO\WARE FAS Track BT 1000 is a bottom track that offers fire and air (smoke) protection, eliminating the need for fire and sound sealant. 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 (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.

Steel Thickness

Thickness (mil.)	Design Thickness (in.) ¹	Minimum Thickness (in.) ^{1,2}
30	0.0312	0.0296
43	0.0451	0.0428
54	0.0566	0.0538

Notes:

1. Uncoated steel thickness. Thickness is for carbon steel.

2. Minimum Thickness represents 95% of the design thickness and is the minimum acceptable thickness delivered to the job site, based on Section A3.4 of the AISI S100-2012.

FAS Track BT 1000 (Bottom Track) Track Configurations:

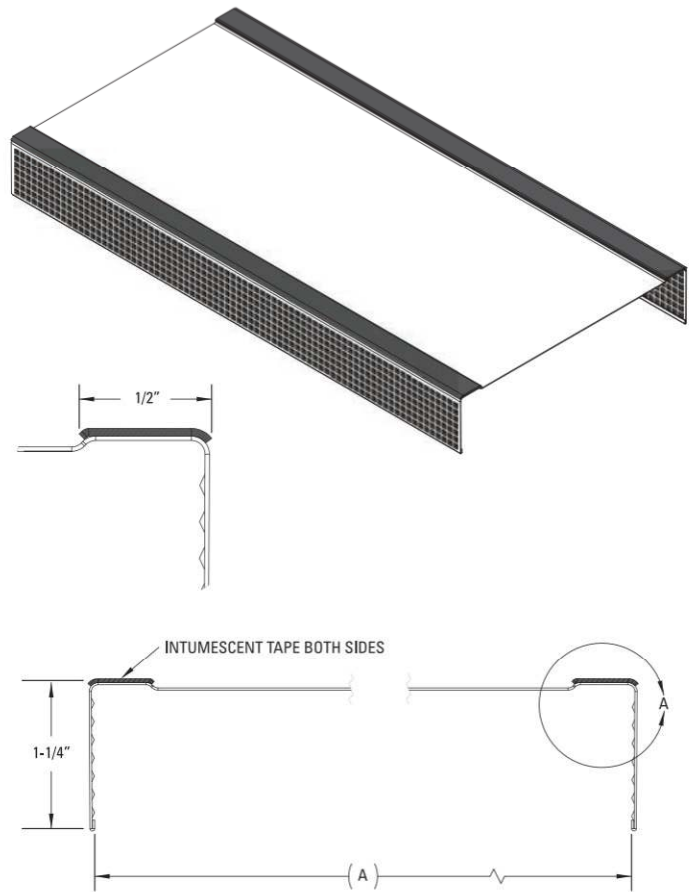
"A" Track Member Width (in.)	Flange Size (in.)	Length (ft.)	"G" Steel Thickness mil (gauge)
2-1/2, 3-5/8, 4, 6	1-1/4	10	30, 43, 54 (20, 18, 16)

U.S. Patent 8,640,415 B2

ASTM & Code Standards

- ASTM A653/653M, A924/924M, A1003/1003M, C645 & C754
- ASTM E 1966: Standard Test Method of Fire Tests of Firestop Systems
- UL 2079 Tests For Fire Resistance of Building Joints, 5th Edition
- 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

- 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 – Environmental Product Declarations, Options 1 & 2
- MR Credit: Building Product Disclosure and Optimization – Material Ingredients, Option 1
- MR Credit: Building Life-Cycle Impact Reduction, Option 4



For more information, please contact Marino\WARE® Technical Services at 866.545.1545

This technical information reflects the most current information available and supersedes any and all previous publications effective April 29, 2022 | MW-FS Catalog | ©WARE Industries, Inc. 2022



MARINO\WARE FAS-RBR STRAP (RATED BASE REVEAL)

Product Description

MARINO\WARE FAS-RBR Strap (Rated Base Reveal) is a composite steel/intumescent profile that provides a fire and smoke rating according to UL-2079 for a recessed base board and listed under UL BW-S-0036. The FAS-RBR Strap is a fire rated steel/intumescent strap drywell accessory that provides fire rating for recessed base board assemblies. FAS-RBR 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 (30 mil) with a minimum G40 coating complying with ASTM A924.

Patent Pending

Steel Thickness

Steel thickness 20ga .030mil (only) 6" wide

ASTM & Code Standards

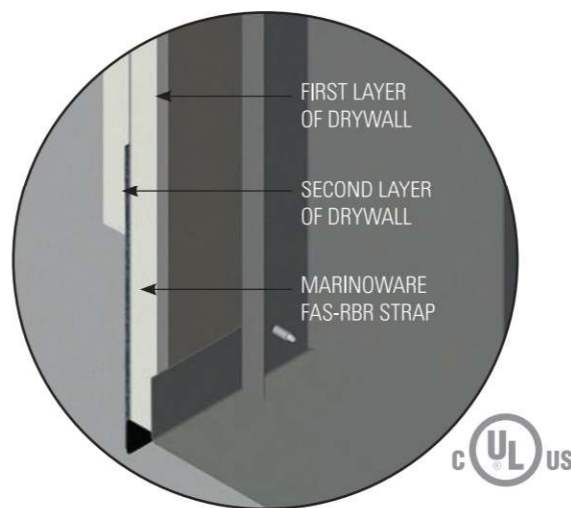
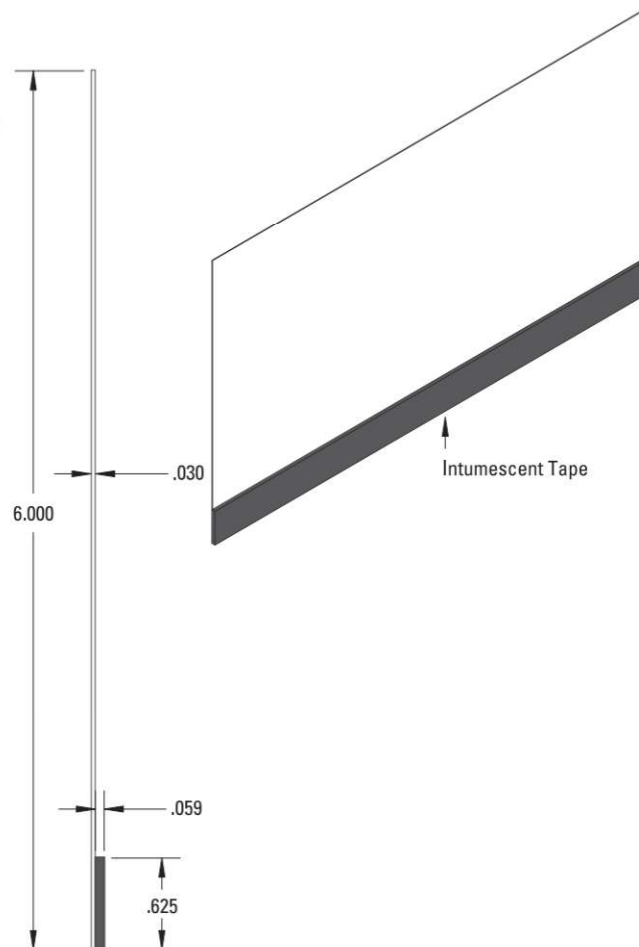
- ASTM A1003, A653, A924
- 2012/2015 IBC
- 2010/2013 CBC
- 2012 AISI
- ASTM E 1966: Standard Test Method of Fire Tests of Firestop Systems
- UL 2079 Tests for Fire Resistance of Building Joints, 5th Edition, UL BW-S-0036
- ASTM E-119 Standard Test Methods for Fire Tests of Building Construction and Material
- Air leakage tests conducted for compliance with Section 713.6 of IBC and CBC

LEED v4 for Building and 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 – Environmental Product Declarations, Options 1 & 2.
- MR Credit: Building Product Disclosure and Optimization – Material Ingredients, Option 1.
- MR Credit: Building Life-Cycle Impact Reduction, Option 4.

Cold-formed steel framing products contain 30% to 37% recycled steel

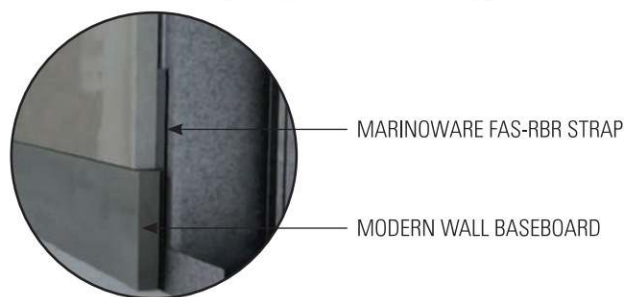
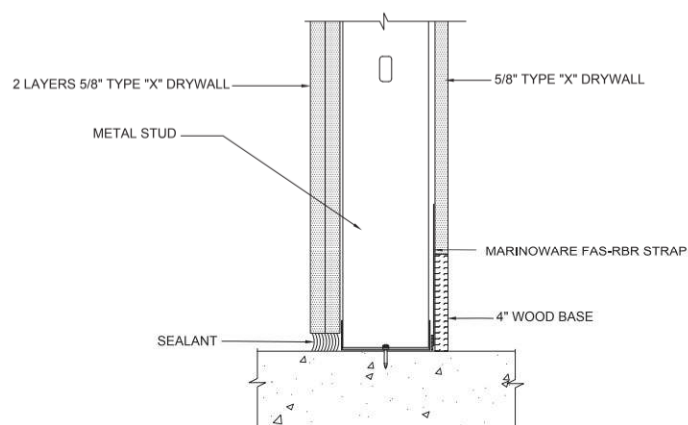
- Total Recycled Content: 36.9%
- Post-Consumer: 19.8%
- Pre-Consumer: 14.4%



Typical Details | FAS-RBR Strap

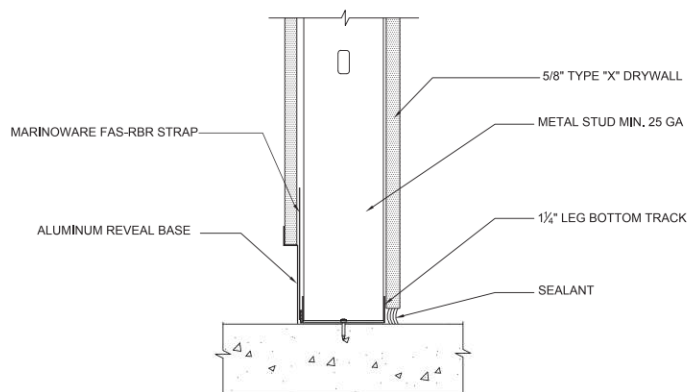
Bottom of Wall

BW-S-0036 SOUND TEST OL15-1010, STC 52



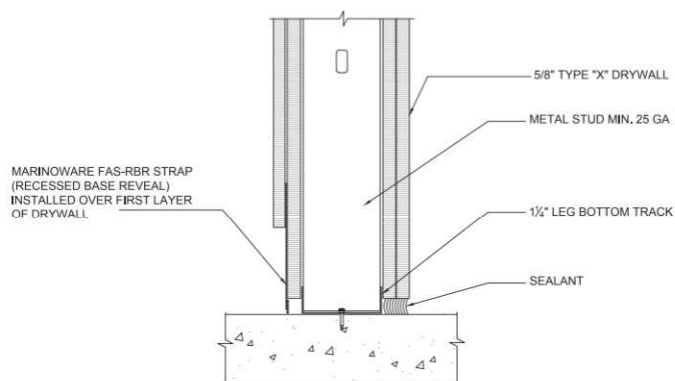
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

BW-S-0036 BOTTOM WALL STATIC JOINT FAS-RBR STRAP



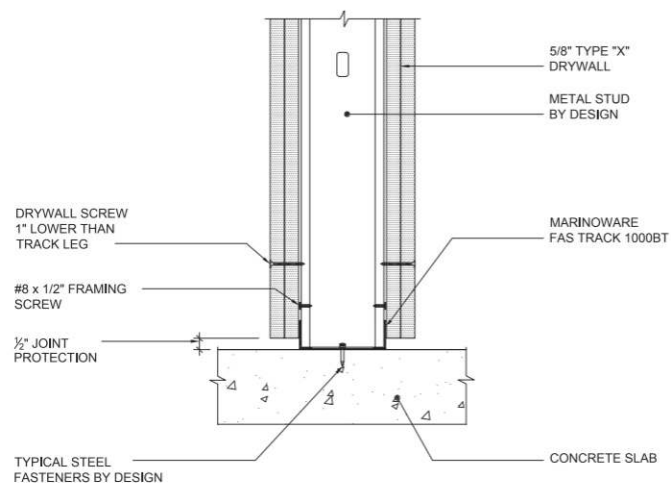
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

BW-S-0036 2 HR. BOTTOM WALL STATIC JOINT FAS RBR STRAP



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

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



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

Always check the UL Fire Resistance Directory for full and complete design assembly requirements.

www.marinoware.com | 866.627.4661

FAS-093X FIRE RATED CONTROL JOINT

Product Description

FAS-093X Fire Rated Control Joint, manufactured by CEMCO, 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 093X can be used on metal or wood framing on one or both sides of the wall. The section is fabricated from 0.015 mil hot-dipped galvanized steel.

U.S. Patent 8,671,632

ASTM & Code Standards

- ASTM C1047, A653
- ASTM A1003 Grade 33 Type H
- ASTM E 1966: Standard Test Method of Fire Tests of Firestop Systems
- UL 2079 Tests For Fire Resistance of Building Joints, UL WW-D-0172
- 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 v4 for Building and Design Construction

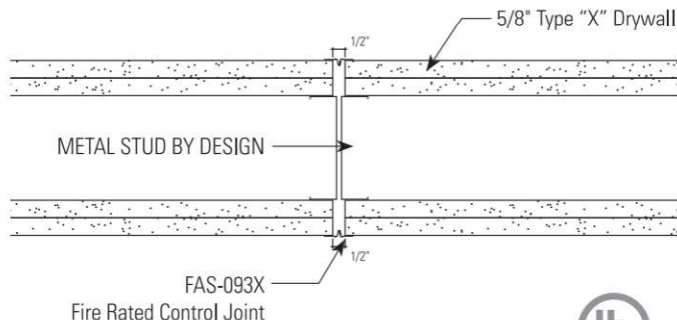
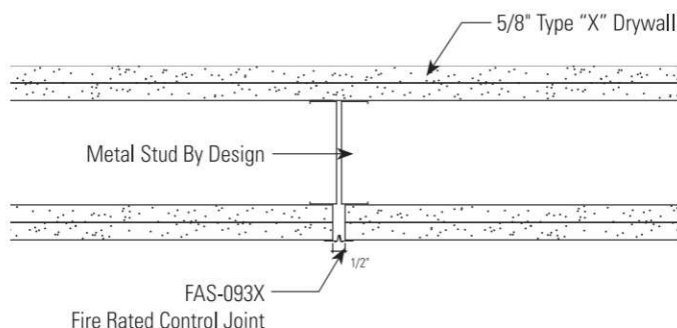
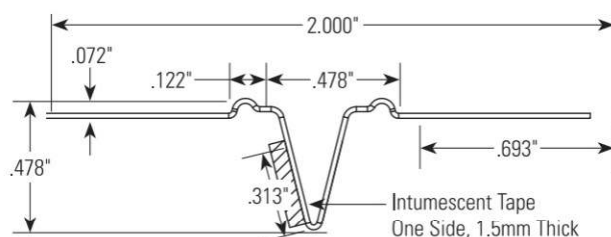
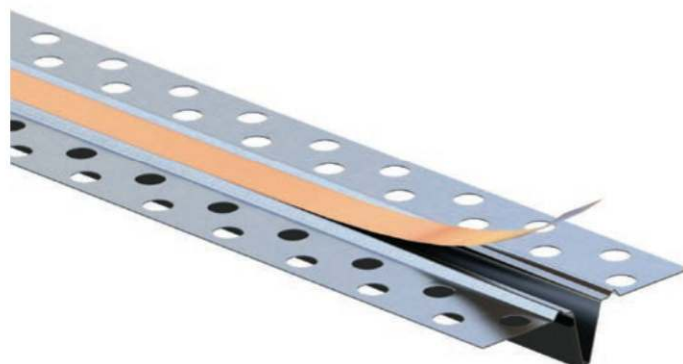
- MR Prerequisite: Construction and Demolition Waste Management Planning
- MR Credit: Construction and Demolition Waste Management
- MR Credit: Building Product Disclosure and Optimization – Sourcing of Raw Materials, Option 2
- MR Credit: Building Product Disclosure and Optimization – Environmental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

Cold-formed steel framing products contain 30% to 37% recycled steel

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

Installation

093X can be installed with drywall fasteners or staples before the flanges are coated with tape and joint compound.



FAS-093X-V (VINYL) FIRE RATED CONTROL JOINT

Product Description

FAS-093X-V Vinyl Fire Rated Control Joint, manufactured by CEMCO, 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 and EXTERIOR partitions or ceilings running in a horizontal or vertical direction in both metal or wood framing on one side or both sides of the wall. The FAS-093X-V is pink in color and features a co-extruded flexible PVC center that is designed to provide a full 1/2" of protection against the stresses of expansion and contraction.

US Patent 8,671,632

Packaging

10' lengths; 20 pieces per box; 25 per pallet

Product Information

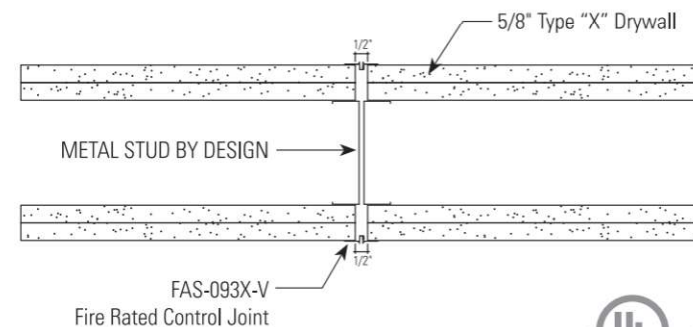
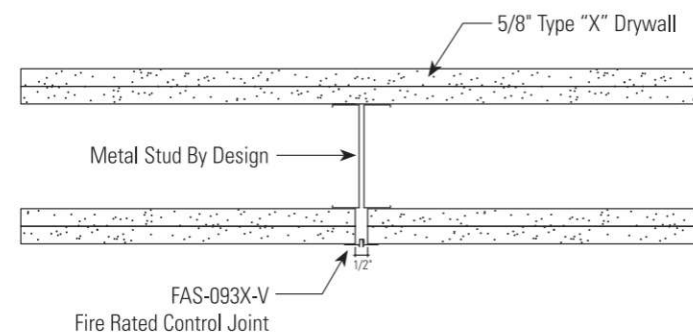
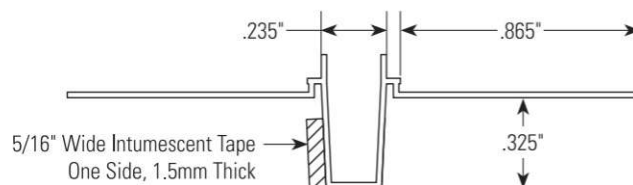
Applicable Standards: Rigid PVC products meet ASTM specifications D3678-97 Class 2, D1784-03, C1047-99 and achieve a Class A rating for flame spread and smoke developed when tested under ASTM E84-10.

UL-2079 Standard for Tests for Fire Resistance of Building Joint Systems, UL WW-D-0172.

Limitations: 093X-V must be painted with a high quality paint, especially in exterior applications.

Installation: 093X-V can be installed with spray adhesive, drywall fasteners, or staples.

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



FAS VERTICAL DRIFT JOINT (VDJ)

Description

FAS Vertical Drift Joint (VDJ) 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 panels and the panel and or drywall encased around the aluminum window mullion. The FAS Vertical Drift Joint (VDJ) 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 gauge (18 mil).

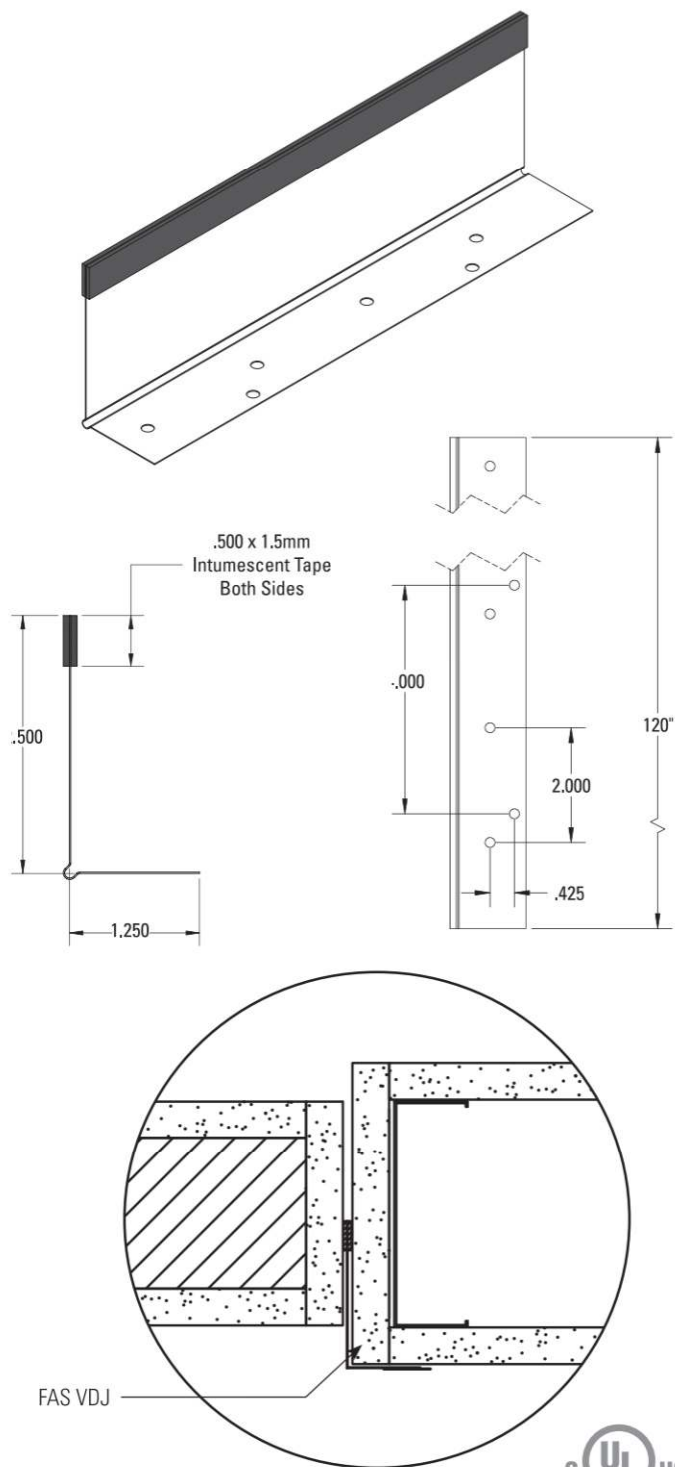
Patent Pending

ASTM's & Code Standards

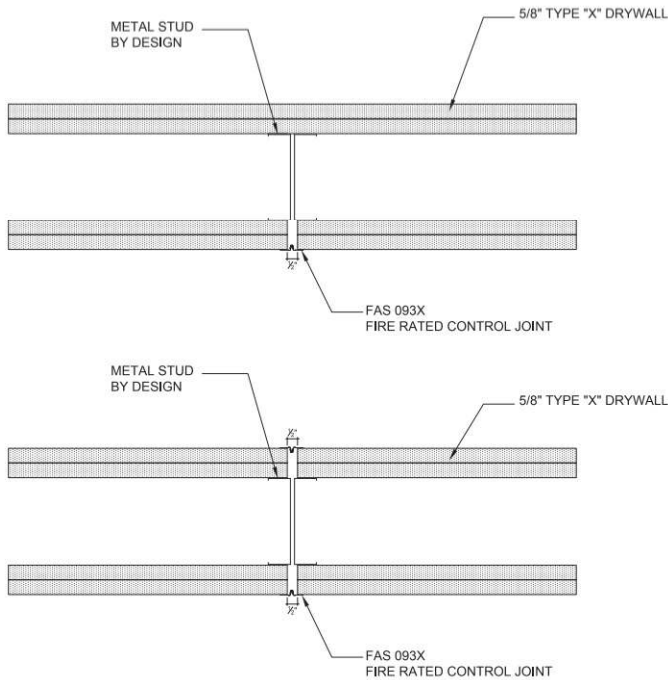
- ASTM A653, C645, A1003, A924
- ASTM E 1966: Standard Test Method of Fire Tests of Firestop Systems
- UL 2079 Tests For Fire Resistance of Building Joints, UL WW-D-0182
- ASTM E-119 Standard Test Methods for Fire Tests of Building Construction and Material
- Air leakage tests conducted for compliance with Section 713.6 of IBC and CBC

LEED v4 for Building and 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 – Environmental Product Declarations, Options 1 & 2.
- MR Credit: Building Product Disclosure and Optimization – Material Ingredients, Option 1.
- MR Credit: Building Life-Cycle Impact Reduction, Option 4.

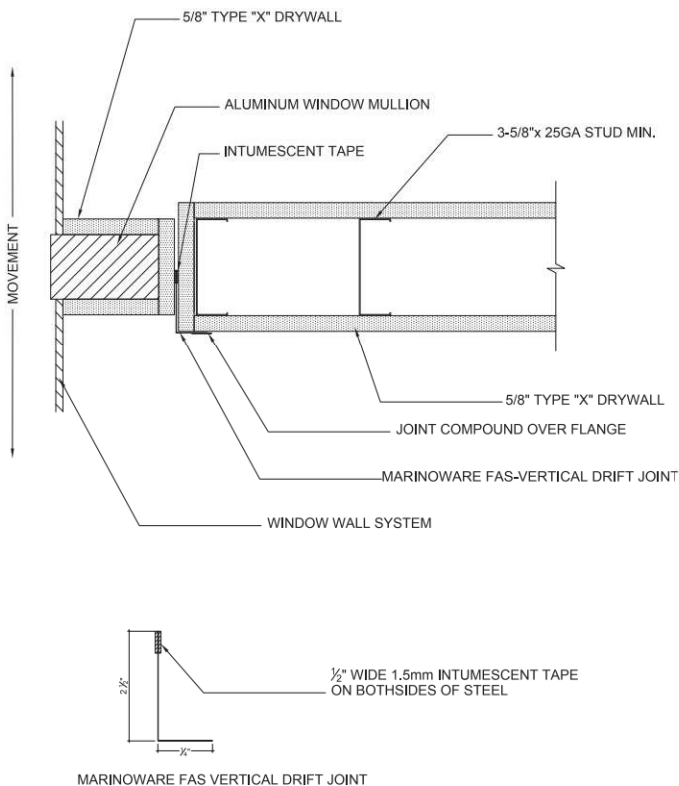


WW-D-0172 2 HR. VERTICAL JOINT FAS 093X



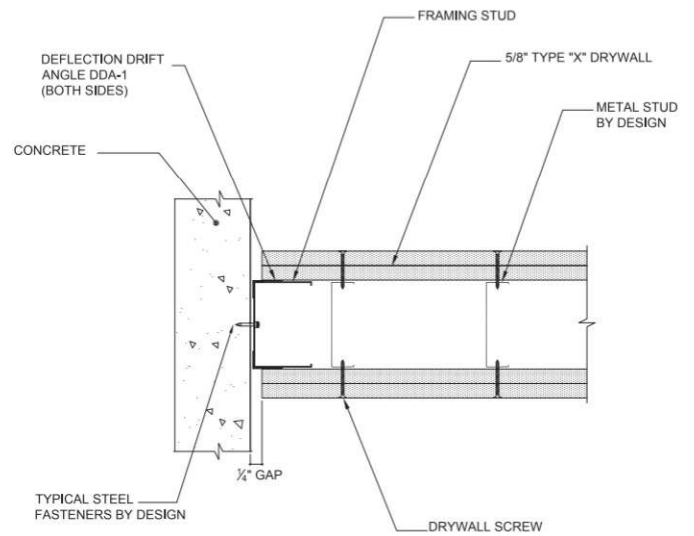
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

WW-D-0182 1 HR. VERTICAL DRIFT JOINT FAS-VDJ



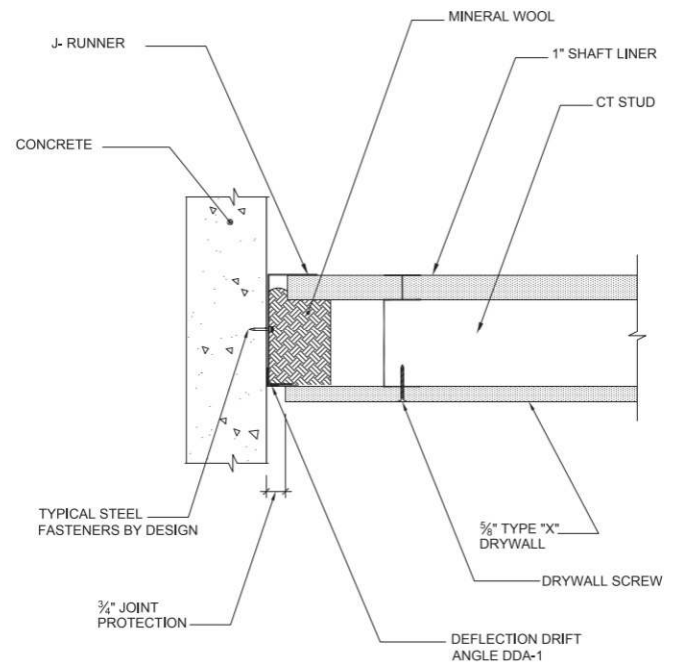
*NOTE: SINGLE LAYER OF 5/8" TYPE "X" DRYWALL FOR 1 HOUR FIRE RATING, 2 LAYERS FOR 2 HOUR

WW-D-0104 2 HR. 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

MARINO\WARE SOUND GASKET (SOUND ABATEMENT FOR BUILDING JOINTS)

Product Description

MARINO\WARE SOUND GASKET is a vinyl accessory that provides smoke and sound ratings for both dynamic and static joints. The unique vinyl profile provides a seal along the inside leg to prevent sound flanking along the leg of the slotted and framing screws while the outer bubble gasket will compress to seal against uneven concrete.

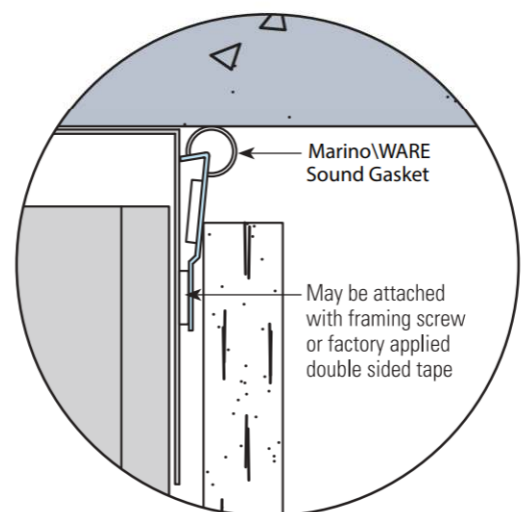
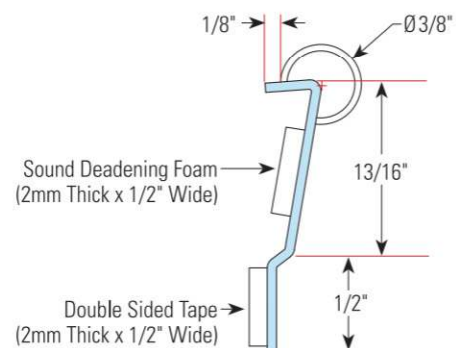
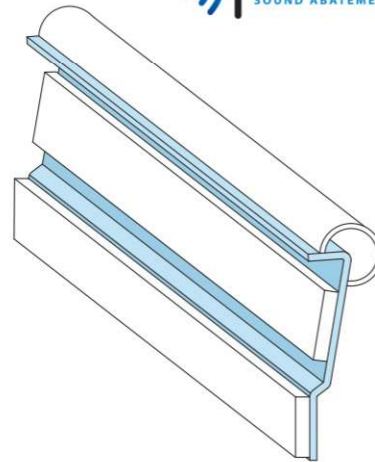
- **SOUND GASKET** is mechanically or adhesively fastened to the leg of the track. It features a 3/8" hollow bubble gasket on the upper corner that is easily compressed to seal against uneven concrete or fluted decks. Once properly installed the Sound Gasket provides an unbreakable seal, to provide long term smoke and sound protection.
- **SOUND GASKET** takes the place of acoustic sealant at building joints.
- **SOUND GASKET** can be used on head-of-wall, bottom-of-wall, and wall to wall building joints.
- **SOUND GASKET** is tested for air leakage for compliance with Section 713.6 of IBC and CBC.
- **SOUND Gasket** is manufactured is a light blue color vinyl that is easily identified by the inspector.
- **SOUND GASKET** installs fully cured and has no installation temperature or humidity restrictions.
- **SOUND GASKET** installs on both sides of the wall and comes in 10' lengths.
- **SOUND GASKET** can be installed in the field or pre-installed to the track prior to installing track in place.
- **SOUND GASKET** provides up to 1" overall unencumbered movement.
- **SOUND GASKET** is very durable and is not easily damaged, once installed it will not delaminate, it will not take in water, and it will not shrink or harden over time.
- **SOUND GASKET** provides premium STC ratings.
 - STC 51 on 3-5/8" 20 EQ studs unbalanced walls.
 - STC 55 on 3-5/8" 20 EQ studs balanced walls.

Packaging

- 10'-0" lengths; 20 pieces per box; 30 boxes per pallet.
- When properly stored indoors, and in original packaging **SOUND GASKET** will not breakdown and has no expiration date.

ASTM & Code Standards

- Sound Tested in accordance with ASTM E90-09
- Air Leakage tests conducted for compliance with Section 713.6 of IBC and CBC.
- **U.S. Patent No. 10,246,871**



SMOKE AND SOUND STOP

Product Description

Smoke and Sound Stop is a compressible rectangular foam that provides a flexible backing for smoke and sound abatement at interior building joints and is sound tested according to ASTM E90.

Composition: Smoke and Sound Stop is continuous lengths of flexible, fabricated open cell polyurethane. Yellow in color. Sold in one continuous 1080' roll.

Smoke and Sound Stop

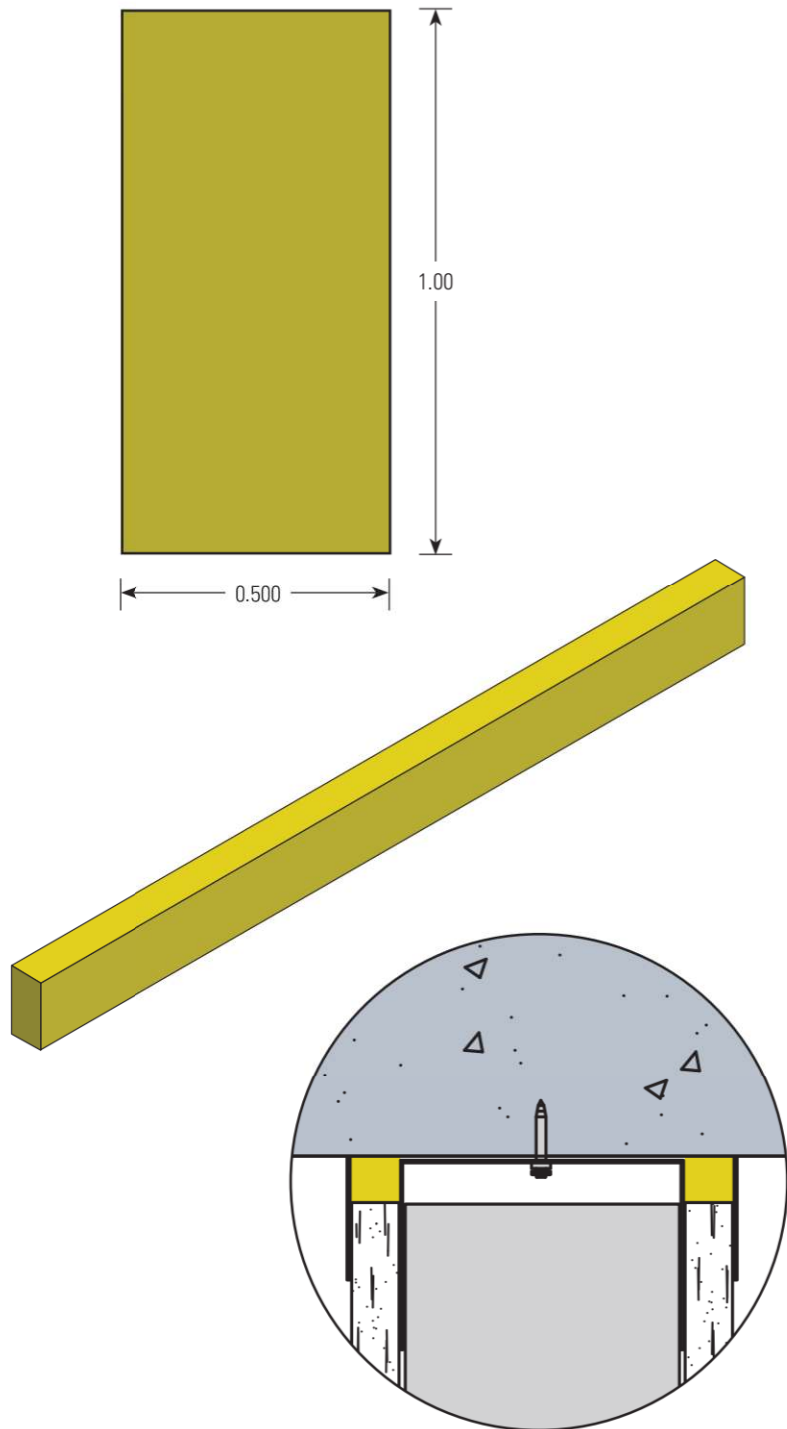
- Should be installed at interior perimeter building joints only, free from all loose materials, dry and free from frost, not recommended for wet areas.
- The rectangular profile is easily compressed into the gap between the edge of the drywall and adjoining structure.
- The open cell composition provides a flexible backing capable of receiving finishing materials such as drywall joint compound and tape or sealant.
- Exposed surface shall be covered with tape and joint compound, or sealant, or decorative trim.
- Maintains flexibility for the life of the interior building joint and will not shrink or pull away or harden over time.
- Will resist oil, gasoline and most solvents, the material is odorless, will not stain, and the open cell composition prevents out-gassing.

Packaging

1 continuous roll, 1080' per box, 12 boxes per pallet.

ASTM & Code Standards

- Sound Tested in accordance with ASTM E90-09
- Air leakage tests conducted for compliance with Section 713.6 of IBC and CBC
- Patent pending





★ NEW JERSEY FACILITY
400 Metuchen Road
South Plainfield, NJ 07080
(800) 627-4661
(908) 757-9000
(908) 412-1442 FAX

★ GEORGIA FACILITY
777 Greenbelt Parkway
Griffin, GA 30223
(800) 504-8199
(678) 688-1312
(678) 688-1379 FAX

★ INDIANA FACILITY
4245 Railroad Avenue
East Chicago, IN 46312
(866) 636-6002
(219) 378-7100
(219) 378-7106 FAX

★ NEW YORK SALES OFFICE
51 John Street, Ste. 1
Babylon, NY 11702
(800) 627-4667
(631) 691-2200
(631) 691-1492 FAX

★ ENGINEERING OFFICE
100 Hendrick Drive, Suite 200
McDonough, GA 30253
(866) 545-1545
(678) 688-7780
(770) 507-2605 FAX

www.marinoware.com

For more information, please contact Marino\WARE® Technical Services at 866.545.1545

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