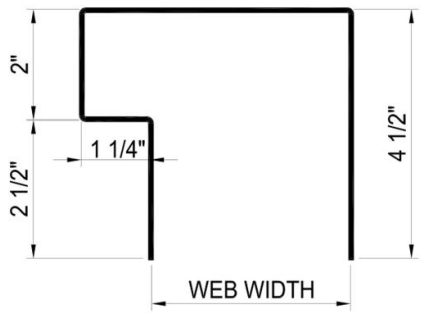
BlazeFrame® RipTRAK™ Shaftwall (2HR) for 2" Total Deflection

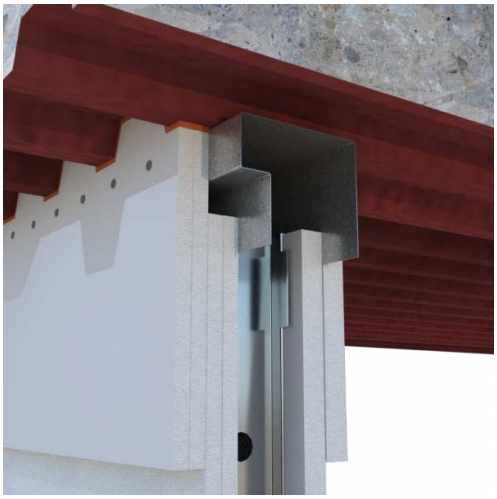
Head-Of-Wall Deflection Track - 2 Hour System

BlazeFrame RipTRAK Shaftwall is a ceiling runner with an offset shoulder that represents the thickness of 2 layers of 5/8" wall board. (1-1/4" for 2 hour) Additional rip-cut piece(s) of board/wall material is placed under the fluted deck or flat concrete and is then attached to the shoulder. This allows the deck and the BlazeFrame RipTRAK Shaftwall to move in relation to the wall studs. This also allows the outer/overlapping board that is attached to the BlazeFrame RipTRAK Shaftwall to slide over the primary board/wall material. See RipTRAK Shaftwall Technical Data for more info on allowable loads.

The BlazeFrame RipTRAK Shaftwall is a UL tested fire-rated head of wall joint system. Meets UL 2079, 5th edition; HW-D-0908. This is good for both roof and wall assemblies. Caulking between the shoulder board and the roof/floor assembly is required.



- UL Classified and Listed Joint Systems
- 1 HR Rated system also available



Fire Rated Condition

1" nominal joint with 100% compression and 100% extension. Up to 2" of total movement. (See attached page for all configurations)

Product Data & Ordering Information:

Material: Yield Strength: Grade 33ksi for 33mils & 43mils - 50ksi for 54mils - 50ksi for 68mils
Coating: CP60 (CP90 available)
33mils: 20ga STR, 0.0346" Design Thickness, 0.0329" Min. Thickness
43mils: 18ga, 0.0451" Design Thickness, 0.0428" Min. Thickness
54mils: 16ga, 0.0566" Design Thickness, 0.0538" Min. Thickness
68mils: 14ga, 0.0713" Design Thickness, 0.0677" Min. Thickness

Dimensions:

Inside depth: Equal to the outside width of the stud (Stud Width)
Web Size: 2-1/2", 4", and 6"
Track length: 10'-0"

Code Approvals & Performance Standards

- AISI S100-16 (2020) w/S2-20 North American Specification for the Design of Cold-Formed Steel Structural Members
- AISI S220-20 North American Standard for Cold-Formed Steel Framing - Nonstructural Members
  - (Compliant to ASTM C645 , but IBC replaced with AISI S220 in IBC 2015)
  - Section A3 Material - Chemical & mechanical requirements (Referencing ASTM A1003/A1003M)
  - Section A4 Corrosion Protection (Referencing ASTM A653/A653M)
  - Section C Installation - (Referencing ASTM C754)
- UL Designs 2079 Fifth Edition Tests for Fire Resistance of Building Joint Systems
  - IBC requires fire-resistant joint systems be tested in accordance w/the requirements of either ASTM E1966 or UL 2079.
- UL File Number R26034-XHLI Full list of MaxTrak and RipTrak UL design assemblies
- SDS For ASTM A1003 Steel Framing Products For Interior Framing, Exterior Framing and Clips/Accessories

Sustainability Credits For more details and LEED letters contact Technical Services at 888-437-3244 or visit clarkdietrich.com/LEED.

- **LEED v4.1 MR Credit:** Environmental Product Declarations: EPD (1 point) - Sourcing of Raw Materials (up to 2 points) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points)
- **LEED v4 MR Credit:** Building Product Disclosure and Optimization: EPD (1 point) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

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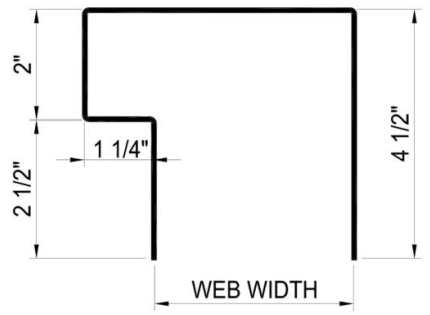


Joint System Overview:
Deflection Gap (Nominal Joint Width)

Max separation between the bottom of the return of the deflection track and top of wallboard (at the time of installation of the joint system) is between 0 and 2 in. (50 mm) in the following configurations: (Also shown in the UL Report: HW-D-0908)

Nominal Joint Width	Extension	Compression	Max. Joint Width
0 in. (0 mm)	2 in. (50 mm)	0 in. (0 mm)	2 in. (50 mm)
1 in. (25 mm)	1 in. (25 mm)	1 in. (25 mm)	2 in. (50 mm)
2 in. (50 mm)	0 in. (0 mm)	2 in. (50 mm)	2 in. (50 mm)

EXTENSION

Upward movement of the roof or floor system - Deflection Gap (Nominal Joint Width) opens larger than installed width due to negative wind pressure (roof uplift) or the floor system below compressing.

COMPRESSION

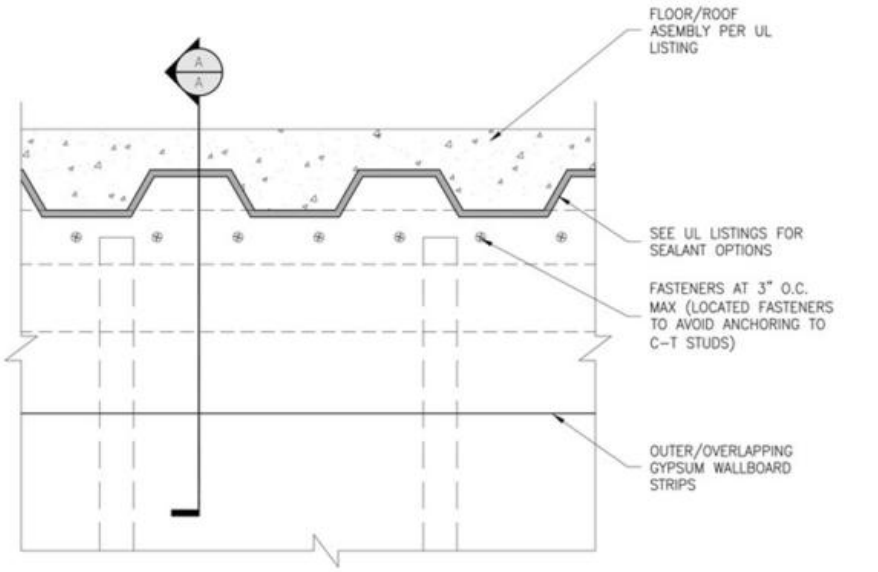
Downward movement of the roof or floor system - Deflection Gap (Nominal Joint Width) compresses due to dead loads, live loads, snow loads, etc.

MAX. JOINT WIDTH (TOTAL DEFLECTION MOVEMENT)

Both downward (compression) and upward (extension) movement - Most joints are subjected to movement in both directions
For example, a joint required to handle 1" of extension and 1" of compression would have a 2" Max. Joint Width (Total deflection movement)

Fire Rated Condition (Example Shown Below)

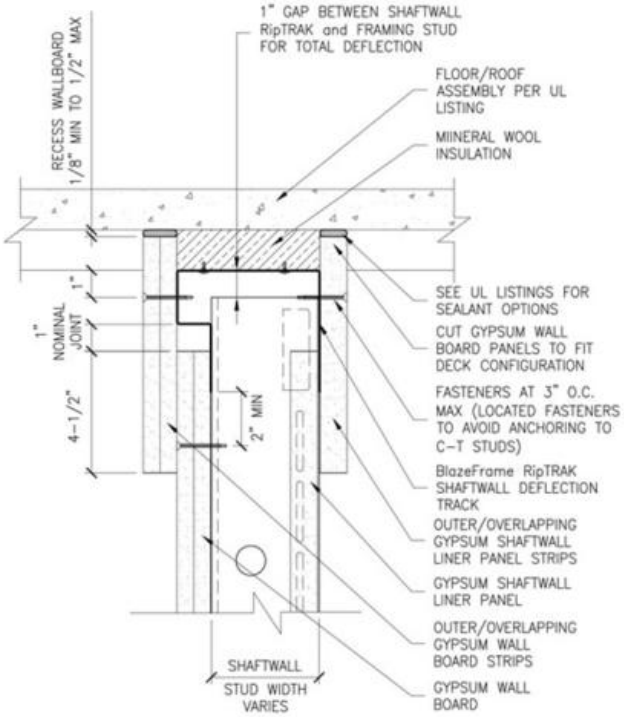
1" Nominal Joint (Deflection Gap) with 100% Compression (1") and 100% Extension (1") = 2" of total movement (Max. Joint Width)



HEAD OF WALL DETAIL SWRT2-2-UD-2

UL LISTED FLOOR/ROOF ASSEMBLY W/ UNPROTECTED DECK (UD) - MINERAL WOOL FILL

UL DESIGN HW-D-0908
(2 HR WITH 1" NOMINAL JOINT)



SECTION A-A

For additional BlazeFrame Shaftwall RipTrak CAD details, refer to the iTools CAD Library.