



**STRONGER
THAN STEEL.™**

BlazeFrame Design Advantages

What is BlazeFrame?

BlazeFrame products are innovative steel framing profile/intumescent composites, that combine ease of installation, inspection, life safety and joint protection dependability into one unique product.

How does it work?

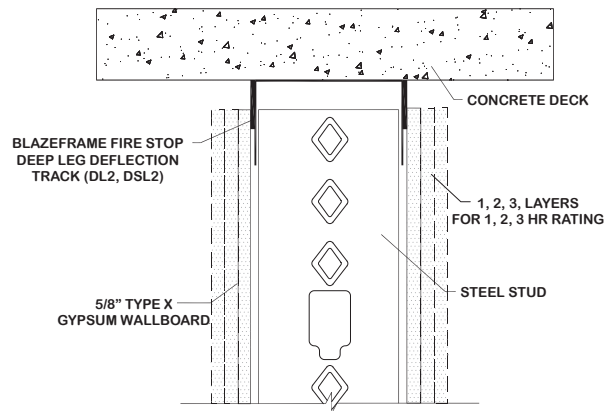
Using a cured factory metered dosage intumescent material, BlazeFrame profiles provide fire stopping, smoke and sound dampening that is effective immediately after framing components are installed. When exposed to heat above 375° F, the intumescent material expands up to 35 times its size. This provides additional protection from heat and flame passage during a fire event.

What does it replace?

BlazeFrame's factory metered dosage intumescent material eliminates elastomeric fire proofing caulks and spray. The cured intumescent tape eliminates VOC's and off gases associated with caulked spray fire proofing. With the intumescent tape factory applied it eliminates both overage and underage often associated with the messy caulks and sprays.

BlazeFrame Advantages:

- Installed & inspected as "joint framing" (before obstructions)
- Unaffected by dirty, oily, wet or freezing conditions
- Cured intumescent effective immediately (no VOC)
- No fatigue to joint or substrate materials for life of assembly



One to three hour assembly



Fire Stopping

- UL 2079 Classified and listed for up to 3 hr assemblies
- Protection for up to 3" overall movement capability (1-1/2" up and 1-1/2" down)
- Eliminates fire proofing caulks and sprays
- Shaftwall Assemblies certified for use with all UL listed "liner" boards and finish side gypsum products

Sound Dampening

- NVLAP certified to provide up to STC 62 (based on wall assembly)
- Open unencumbered joints (no caulk required)
- Fluted deck exposed with only BlazeFrame Deck Plug or Flute Cover STC = 50+

Smoke barrier-air leakage - IBC 2009

BlazeFrame assemblies have been UL Classified with the lowest possible L-Rating (less than 1 CFM/ft).

Seismic Requirements

BlazeFrame is UL 2079 Classified for Class III Cycling of 500 cycles at 30 cycles per minute of vertical movement which may be capable of meeting seismic design and building code requirements.

Code Compliance

BlazeFrame joint protection complies with up to date building codes and is listed by Underwriters Laboratories Inc.

UL 2079

ASTM E-1966

ASTM E-814

ULC S115-M95

ASTM E-119

ASTM E-2837

Tests for Fire Resistance of Building Joint Systems

Standard Test Method for Fire Resistive Joint Systems

Standard Method of Fire Tests of Fire Stop Systems

Standard Method of Fire Tests of Fire Stop Systems

Evaluation of a Non-Load Bearing Wall Assembly with FAS-093X Control Joint

Rated Wall Assemblies Installed to Non-Rated Assemblies (pending)



Expanded intumescent strip after fire test



BlazeFrame deflection track & deck plugs in sound test

BlazeFrame® Perimeter L-Bead-INT

INTUMESCENT L-BEAD WITH COMPRESSIBLE FOAM

BlazeFrame Perimeter L-Bead-INT, when used in conjunction with MaxTrak®-INT (SLT-INT) slotted track or solid deep leg deflection tracks, provides joint protection up to 1" for a 2 HR concrete deck Head of Wall Joint System. Perimeter L-Bead-INT is placed over the top edge of the outer layer of gypsum board, leaving a 5/8" space between the foam and the leg of the steel top track.

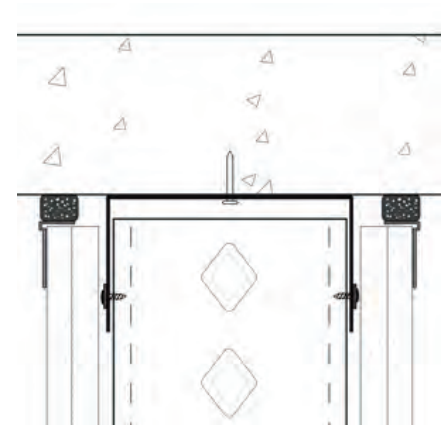
BlazeFrame Perimeter L-Bead-INT is PVC blended with an intumescent fire retardant polymer composite. With the intumescent already in the bead, there is no need for extra tape making this a lower cost assembly. BlazeFrame Perimeter L-Bead-INT is easily attached with staples through the bead flange. Multiple perforations along the 1-1/8" flange enhance strong compound adhesion and the raised shoulder provides a ground for a flush finish. Rigid vinyl is rust proof, dent resistant and easy to field cut without distorting the profile.



BLAZEFRAME PERMETER L-BEAD-INT

Part Number	Width	Length	Wt./Ctn.	Pcs./Ctn.
62563	1/2"	8'	24 lbs.	40

Vinyl material:	0.028" INT-PVC (Polyvinyl Chloride) with intumescent fire retardant polymer composite
L-Bead dimensions:	1/2" leg x 1-1/8" flange (available in Rip-Bead®)
Vinyl color:	Gray
Foam color:	Black



CODE COMPLIANCE

- Intertek Design No: CD/NSMF 120-05; 2HR HOW Joint System
- ASTM C1047 - Standard Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base
- ASTM E1966-2 hour, ASTM E1399/ASTM E 1966 Cycling
- ASTM D3678 Class 2 materials
- Installation: ASTM C840 & C841 (Interior Finishes)
- SFO compressible semi-closed foam per ASTM D1056-07
- IBC requires that fire-resistant joint systems be tested in accordance with the requirements of either ASTM E1966 or Intertek

INTUMESCENT L-BEAD USED WITH:

BLAZEFRAME MAXTRAK®-INT (SLT-INT) SLOTTED TRACK

Profile	Leg Length	Slot Height	Slot location Down From Web	Joint Protection
MaxTRAK (SLT-INT)	3.00"	1.50"	1.00"	Up to 1.00"

Inside depth: Equal to the outside width of the stud

Web sizes: 2-1/2", 3-5/8", 4", 6", 8"

Vertical slots: 0.22" wide & spaced every 1" o.c.

Track length: 10'0"

BLAZEFRAME DEEP LEG DEFLECTION STRUCTURAL

2" Leg with 1/2" gap - Allowable Deflection Track Point Loads:

Yield Strength	33mils (20ga)	43mils (18ga)	54mils (16ga)	68mils (14ga)	97mils (12ga)
33ksi	113	163	213	N/A	N/A
50ksi	N/A	247	323	435	729

2-1/2" Leg with 3/4" gap - Allowable Deflection Track Point Loads:

Yield Strength	33mils (20ga)	43mils (18ga)	54mils (16ga)	68mils (14ga)	97mils (12ga)
33ksi	75	123	158	N/A	N/A
50ksi	N/A	187	240	318	519

3" Leg with 1" gap - Allowable Deflection Track Point Loads:

Yield Strength	33mils (20ga)	43mils (18ga)	54mils (16ga)	68mils (14ga)	97mils (12ga)
33ksi	56	96	129	N/A	N/A
50ksi	N/A	145	195	256	411

Notes:

- 1 Values above are designed for wall stud spacing at 16" o.c.
- 2 Lateral bracing is required within 12" of deflection track to prevent wall studs from rotating.
- 3 Values are based on equations from AISI North American Standard for CFSF-Wall Stud Design (S211-07).
- 4 Stud failure modes relating to the deflection track connection (shear, web crippling, etc.) must be checked separately.

BLAZEFRAME DEEP LEG DEFLECTION DRYWALL PROTRAK®

Allowable Deflection Track Point Loads:

Deflection Track System	2" Leg Track with 1/2" Gap	2-1/2" Leg Track with 3/4" Gap	3" Leg Track with 1" Gap
ProTRAK 25 (15mil)	36	24	18
ProTRAK 20 (18mil)	52	34	26
ProTRAK 30mil	92	61	46
ProTRAK 33mil	113	75	56

Allowable Deflection Track Limiting Wall Height:

Deflection Track System	2" Leg Track with 1/2" Gap	2-1/2" Leg Track with 3/4" Gap	3" Leg Track with 1" Gap
ProTRAK 25 (15mil)	10'-8"	7'-2"	5'-4"
ProTRAK 20 (18mil)	15'-6"	10'-4"	7'-9"
ProTRAK 30mil	27'-6"	18'-4"	13'-9"
ProTRAK 33mil	33'-10"	22'-7"	16'-11"

Notes:

- 1 Limiting wall heights are based on studs spaced at 16" o.c. and an interior lateral load of 5psf.
- 2 Stud members must be analyzed independently of the track system. Use www.itools.clarkdietrich.com to check limiting wall heights of stud members.
- 3 Stud failure modes relating to the deflection track connection (shear, web crippling, etc.) must be checked separately.

HEAD-OF-WALL DEFLECTION TRACK - 1 & 2 HOUR SYSTEM

BlazeFrame RipTRAK is a ceiling runner with an offset shoulder that represents the thickness of the wall material. (5/8" or 1-1/4") A second piece of board/wall material is fit flush to the fluted deck or slab and is then attached to the shoulder. This allows the deck and the BlazeFrame RipTRAK to move in relation to the wall studs. This also allows the outer/overlapping board (the rip board) that is attached to the BlazeFrame RipTRAK to slide over the primary board/wall material.

BlazeFrame RipTRAK is offered in 33 mils, 43 mils, 54 mils & 68 mils with web sizes of 2-1/2", 3-5/8", 4", 6" and 8".

The BlazeFrame RipTRAK is a UL approved fire-rated head of wall joint system. Meets UL 2079, 5th edition; HW-D-1125 and HW-D-0823. This is good for both roof and wall assemblies. See UL listing Configuration B, Item 3B. Caulking between the shoulder board and the roof/floor assembly is required.



RIPTRAK CLIPS

RipTRAK Clips are attached to both inside bottom legs of the BlazeFrame RipTRAK with two #8 by 1/2" (13mm) long steel self-drilling framing screws and engage the short flange of the studs. This reinforces any stud to track connection while allowing deflection.

- RTC-33-RipTRAK Clip 20 ga (Drywall Studs) PN# 56542
- RTC-54-RipTRAK Clip 16 ga (Structural Studs) PN# 56543

CODE COMPLIANCE

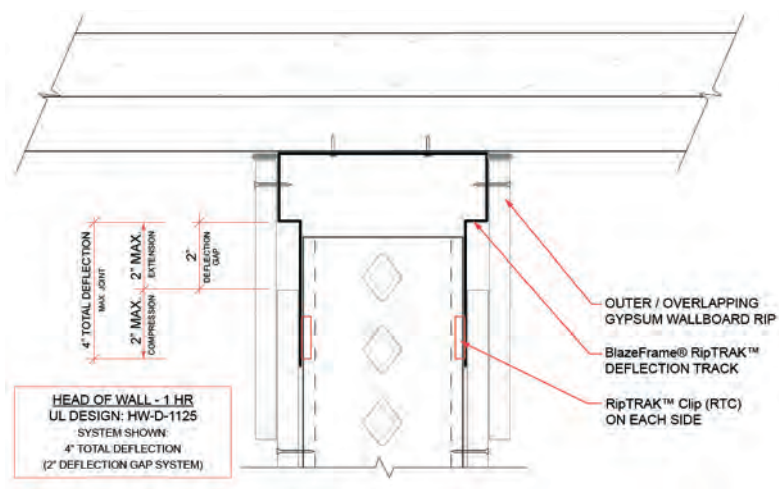
BlazeFrame joint protection complies with building codes and our products are listed by Underwriters Laboratories Inc. and have been evaluated to meet applicable safety standards in accordance with:

- UL 2079 : Tests for Fire Resistance of Building Joint Systems
- ASTM E 1966: Standard Test Method for Fire Resistive Joint Systems
- ClarkDietrich's UL Fill, Void or Cavity Materials Listings
- BlazeFrame RipTRAK is a UL approved fire-rated head of wall joint system. Fire caulk and spray not needed. UL 2079; HW-D-1125 and HW-D-0823. This is good for both roof and wall assemblies. See UL listing Configuration B, Item 3B. Caulking is still needed between the shoulder board and the roof/floor assembly.

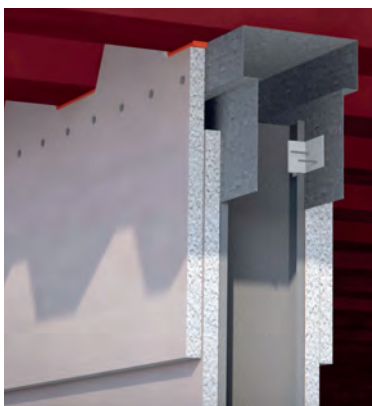


IS TOTAL DEFLECTION THE SAME AS DEFLECTION GAP?

Not at all. It can be confusing but we're here to help explain the differences. Below helps explain why they are different:



Find out more about BlazeFrame RipTRAK Systems by clicking on the links below for Product Submittals:



BLAZEFRAME RIPTRAK - 1 HOUR SYSTEM

[BlazeFrame RipTRAK \(1HR\) for 4" Total Deflection](#)

[BlazeFrame RipTRAK \(1HR\) for 3" Total Deflection](#)

[BlazeFrame RipTRAK \(1HR\) for 2" Total Deflection](#)

[BlazeFrame RipTRAK \(1HR\) for 1" Total Deflection](#)



BLAZEFRAME RIPTRAK - 2 HOUR SYSTEM

[BlazeFrame RipTRAK \(2HR\) for 4" Total Deflection](#)

[BlazeFrame RipTRAK \(2HR\) for 3" Total Deflection](#)

[BlazeFrame RipTRAK \(2HR\) for 2" Total Deflection](#)

[BlazeFrame RipTRAK \(2HR\) for 1" Total Deflection](#)

BlazeFrame® Perimeter L-Bead for Fifth Edition

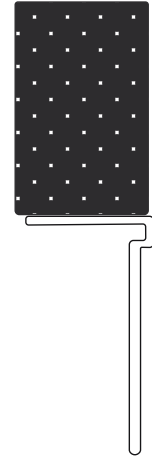
VINYL L-BEAD WITH COMPRESSIBLE FOAM

UL 2079 - Fifth Edition Compliant

When used in conjunction with BlazeFrame Fire Stop Deflection Track Systems, provides joint protection for up to 1" with UL 2079 Class II or III Movement Capabilities.

BlazeFrame Perimeter L-Bead creates an easy attachment that is attained with staples through the bead flange. Multiple perforations along the 1-1/8" flange enhance strong compound adhesion and the raised shoulder provides for a flush finish. Rigid vinyl is rust proof, dent resistant and easy to field cut without distorting profile or leaving sharp edges and burrs.

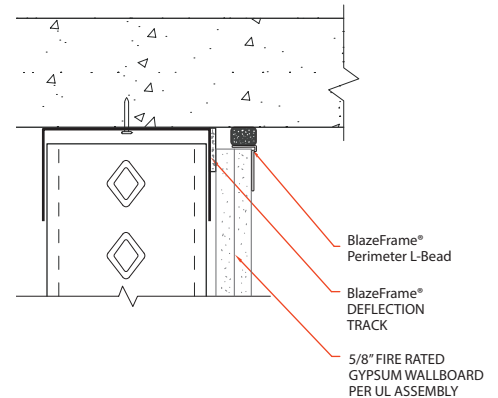
Composite Firestop/Framing for use in fire-resistant joint systems in or between fire-resistance-rated walls and floor/ceiling or roof/ceiling assemblies. Many assemblies can also be used in smoke barriers with tested air leakage (L ratings) well below the code defined maximum of 5 cfm per linear foot.



PERMETER L-BEAD FOR FIFTH EDITION

Width	Length	Wt./Ctn.	Pcs./Ctn.
1/2"	8'	24 lbs.	40

Vinyl material:	0.028" INT-PVC (Polyvinyl Chloride)
L-Bead dimensions:	1/2" leg x 1-1/8" flange (available in Rip-Bead®)
Vinyl color:	White
Foam color:	Black



CODE COMPLIANCE

- ASTM C1047 - Standard Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base
- ASTM D3678 Class 2 materials
- Installation: ASTM C840 & C841 (Interior Finishes)
- SFO compressible semi-closed foam per ASTM D1056-7
- UL 2079 - Fifth Edition compliant (When used in conjunction with BlazeFrame Firestop Deflection Track Systems)
- IBC requires that fire-resistant joint systems be tested in accordance with the requirements of either ASTM E1966 or UL 2079
- SDS & Product Certification Information is available at www.clarkdietrich.com/SupportDocs
- Please refer to UL Listings for additional details.