

Standard Wall
05.40.00 (Cold-Formed Metal Framing)

UltraBEAD with Deep Leg Deflection Track System (Structural)

1 and 2 Hour rated head of wall assembly for up to 3/4" joints

UltraBEAD with deep Leg deflection track utilizes structural deep leg deflection track and UltraBEAD to generate a UL 2079-Fifth Edition compliant, 1 or 2 HR rated assembly with up to 3/4" maximum joint at 60% compression. Multiple perforations along the 1-1/8" flange of UltraBEAD enhance strong compound adhesion and the raised shoulder provides for a flush finish. The proprietary compressible foam of UltraBEAD creates a tight seal against the underside of the concrete slab. The wall studs are not fastened to the deflection track and a row of lateral bracing is required within 12" of the deep leg deflection track to prevent rotation and lateral movement of the studs.

Product Data & Ordering Information:

Material	Yield Strength: Grade 33ksi or 50ksi
	Coating: CP60 per ASTM C955 (G90 available)
	33mils, 20ga Structural, 0.0346" Design Thickness, 0.0329" Min. Thickness
	43mils: 18 Gauge, 0.0451" Design Thickness, 0.0428" Min. Thickness
	54mils: 16 Gauge, 0.0566" Design Thickness, 0.0538" Min. Thickness
Dimensions	68mils: 14 Gauge, 0.0713" Design Thickness, 0.0677" Min. Thickness
	97mils: 12 Gauge, 0.1017" Design Thickness, 0.0966" Min. Thickness
	2" legs with an inside depth equal to the depth of the stud
	Standard web widths available: 2-1/2", 3-5/8", 4", 6" and 8".

Structural - 2" Leg with 3/4" 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

Table Notes:

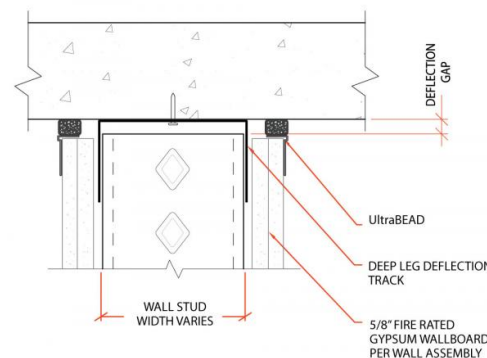
- Values above are designed for wall stud spacing at 16" o.c.
- Lateral bracing is required within 12" of deflection track to prevent wall studs from rotating.
- Values are based on equations from AISI North American Standard for CFSF– Wall Stud Design (S211-07).
- Stud failure modes relating to the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

Code Approvals & Performance Standards

- AISI S100-16 (2020) w/S2-20** North American Specification for the Design of Cold-Formed Steel Structural Members
- AISI S240-20** North American Standard for Cold-Formed Steel Structural Framing
 - (Compliant to ASTM C955, but IBC replaced with AISI S200 in IBC 2015, AISI S240 in IBC 2018)
 - Section A3 Material - Chemical & mechanical requirements (Referencing ASTM A1003/A1003M)
 - Section A4 Corrosion Protection (Referencing ASTM A653/A653M)
 - Section A5 Products - Thickness, shapes, tolerances, identification
 - Section C Installation - (Referencing ASTM C1007)
- ICC-ES ESR-1166P** Structural Studs and Track
 - ESR-1166P LABC and LARC** Supplement
- Intertek CCRR-0206** Structural Studs and Track
- SFIA Stud** Code Compliance Certification Program
- UL Designs HW-D-0924** Joint system
- UL Designs 2079 Fifth Edition** Tests for Fire Resistance of Building Joint Systems
 - (When used in conjunction with UltraBead)
- 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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UltraBEAD

Vinyl L-Bead with Proprietary Compressible Foam

UltraBEAD 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 the 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.

UL 2079 - Fifth Edition Compliant

When used in conjunction with UltraTRAK slotted deflection track or Deep Leg deflection tracks, UltraBEAD is UL 2079-Fifth Edition compliant. Provides joint protection up to 3/4" with various compression extension ratios per the listing.

U.S. Patent Pending

Product Data & Ordering Information:

Vinyl Material:	0.028" PVC (Polyvinyl Chloride)
L-Bead Dimensions:	1/2" Leg x 1-1/8" Flange (available in rip bead)
Length:	8-foot long
Vinyl color:	White
Foam color:	Dark Brown

Part Profile	Part Number	Width	Length	Wt./Ctn.	Pcs./Ctn.
UltraBEAD	62957	1/2"	8'	24 lbs	40
UltraBEAD with Rip Bead	62958	1/2"	8'	18 lbs	30

Code Approvals & Performance Standards

- [ASTM C840](#) Standard Specification for Application and Finishing of Gypsum Board
- [ASTM C841](#) Standard Specification for Installation of Interior Lathing and Furring
- [ASTM C1047](#) Standard Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base
- [ASTM D3678](#) Standard Specification for Rigid Poly(Vinyl Chloride) (PVC) Interior - Profile Extrusions
- [UL Design 2079 Fifth Edition](#) Tests for Fire Resistance of Building Joint Systems
 - (When used in conjunction with UltraTRAK, slotted deflection track or Deep Leg deflection tracks)
 - IBC requires fire-resistant joint systems be tested in accordance w/the requirements of either ASTM E1966 or UL 2079.
- [SDS UltraBEAD Foam](#) For UltraBEAD Foam
- [SDS Vinyl Corp](#) PVC Compounds

Storage:

All stored materials shall be kept dry. Materials shall be stacked off the ground, supported on a level platform, and protected from the weather.

Installation Instructions:

- Splices in the UltraBEAD assembly shall be offset a min of 12" from joints in the Top Track.
- UltraBEAD is to be installed on both sides of wall.
- UltraBEAD horizontal flange to be applied over the top face of the gypsum base, ensuring horizontal and vertical flanges are in contact gypsum base.
- Factory edges have 1/4" of foam overhanging the UltraBEAD, splices are aligned and tightly butted together so foam is compressed, and vinyl L-beads are touching.
- Field splices are cut square with 1/4 in. foam overhang, aligned, and tightly butted together so foam is compressed, and vinyl L-beads are touching.
- Cut to length with a fine-toothed hacksaw or chop saw.
- Make sure to cut ends square (to be butted tightly when spliced)
- Attach UltraBEAD to the gypsum base with 9/16 in (16mm) type G staples, or equivalent, spaced 12 in. (305 mm) o.c. maximum along the flange.
- Repeat until all joints have been filled with the UltraBEAD.
- A layer of tape and joint compound may be applied over the UltraBEAD with tape lapping onto the wall only.
- UltraBEAD is compatible with drywall compound and water based paints.

