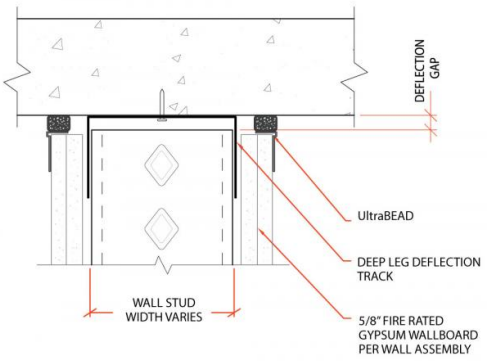
UltraBEAD with Deep Leg Deflection Track System (Structural)

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 68mils: 14 Gauge, 0.0713” Design Thickness, 0.0677” Min. Thickness 97mils: 12 Gauge, 0.1017” Design Thickness, 0.0966” Min. Thickness
Dimensions	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:
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.

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).

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

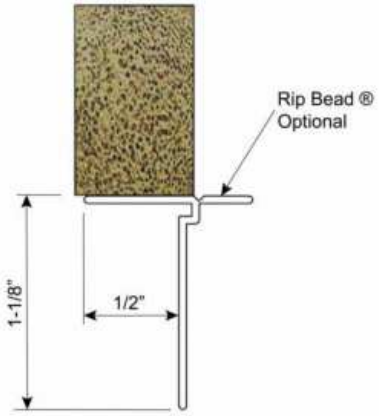
When used in conjunction with UltraTRAK slotted deflection track or Deep Leg deflection tracks, UltraBEAD is UL 2079-Fifth Edition compliant. Provides joint protection up to ¾" with various compression extension ratios per the listing.

U.S. Patent Pending

Product Data & Ordering Information:

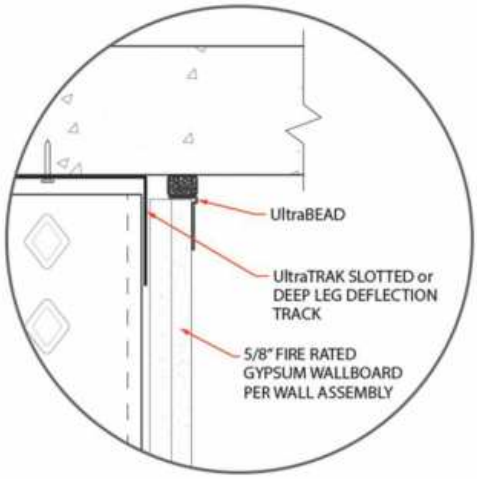
Vinyl Material: 0.028" PVC (Polyvinyl Chloride)
L-Bead Dimensions: 1/2" Leg x 1-1/8" Flange (available in rip bead)
Length: 8-foot long
Vinyl color: White
Foam color: Dark Brown

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 m) 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.