

2" 25ga area separation wall assemblies

ClarkDietrich 2 & 3 hour H-Stud fire rated assemblies

ClarkDietrich H-Studs are 2" wide vertical members used to secure two 1" thick pieces of gypsum shaft liner in Area Separation Wall assemblies. H-Studs are inserted into C-Runners and slid over gypsum panel liner edges. The process is repeated until the desired wall length is achieved. Once the wall is plumbed it is secured at the floor, roof and truss line with aluminum breakaway clips.

ClarkDietrich aluminum breakaway clips are used as part of the H-Stud Area Separation Wall assembly and are designed to melt and break away when exposed to fire. The clips are used to hold the Area Separation Wall assembly in place at the floor roof and truss line between adjacent units. The clip thickness and length of the horizontal leg is determined by the fire rated design assembly.

Product Data & ordering information:

Member	Minimum Thickness	Design Thickness
H-Stud & C-Runner	18mils, 25ga, 0.0179"	0.0188"

All material is produced with a coating of : G40 (G60 Available)

Aluminum Burn Clip	Horizontal Leg Length (L)	Thickness
AB	2-1/2"	0.050"
AB63	2-1/2"	0.063"
AB45	4-1/2"	0.063"
AB40	4"	0.063"
AB35	3-1/2"	0.063"
AB30	3"	0.063"

All burn clips are manufactured using 5052 H32 aluminum

2 Hour Design Assemblies (Refer to design assemblies for detail of the wall system)

- Intertek Fire-Rated Design
 - CD/WA 120-03 and CD/WA 120-04 - Requires H-Studs with 1-1/2" Flange (special order) and 2-1/2" x .050" thick Aluminum Burn Clips
- UL Designs
 - U336 - Requires H-Studs with 1-3/8" Flange and 2-1/4" (min) Aluminum Burn Clips
 - U347 - Requires H-Studs with 1-3/8" Flange and 2-1/2" (min) x .049" thick Aluminum Burn Clips
 - U366 - Requires H-Studs with 1-3/8" Flange and 2-1/4" (min) Aluminum Burn Clips
 - U373 - Requires H-Studs with 1-1/2" Flange (special order) and 2-1/2" (min) Aluminum Burn Clips
 - U375 - Requires H-Studs with 1-3/8" Flange and 2-1/4" x .063" or 2-1/2" x .050" thick Aluminum Burn Clips
 - U388 - Requires H-Studs with 1-3/8" Flange and 2-1/4" (min) Aluminum Burn Clips
 - V411 - Requires H-Studs with 1-3/8" Flange

3 Hour Design Assemblies (Refer to design assemblies for detail of the wall system)

- UL Designs
 - W454 - Requires H-Studs with 1-3/8" Flange and 2-1/2" (min) x .049" thick Aluminum Burn Clips
 - W467 - Requires H-Studs with 1-3/8" Flange and 2-1/2" (min) x .049" thick Aluminum Burn Clips
- GA File No. ASW-2600 (4" min aluminum burn clips required to accommodate the 2" mineral insulation)
- GA File No. ASW-2601 (4" min aluminum burn clips required to accommodate the 2" mineral insulation)

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)
- Intertek SPEC ID 26662 Area Separation Wall Assemblies
- SDS For ASTM A1003 Steel Framing Products For Interior Framing, Exterior Framing and Clips/Accessories

