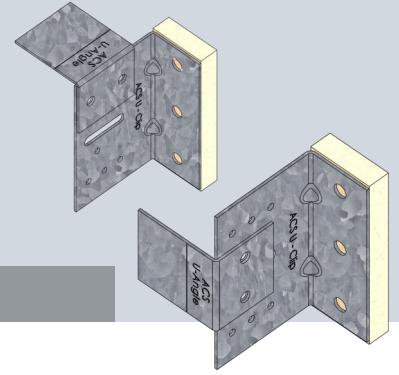


ACS U-CLIP®

TECHNICAL DATA SHEET

Update: 04/01/2026



DESCRIPTION

ACS Thermal Clips create a highly efficient attachment system that reduces the effect of thermal bridging. The ACS U-Clip® is available for use in four different configurations: **Vertical Angle** (penetrating insulation); **Vertical Z-Girt** (outside insulation); **Horizontal Angle** (penetrating insulation); **Horizontal Z-Girt** (outside insulation).

Composed of galvanized steel and utilizing the ACS Thermal Pad, the ACS U-Clip® provides a balance between performance, ease of use and cost.

PHYSICAL SIZE

Available Size in Inches (mm)	2" (51) 3" (76) 4" (102) 5" (127) 6" (152)
Base Dimensions in Inches (mm)	1 ½" x 4" (38 x 102)

MATERIAL COMPOSITION

U-Clip™	16ga G90 galvanized steel (ASTM A653)
U-Angle™	14ga G90 galvanized steel (ASTM A653)
ACS Thermal Pad	High-density poly-iso closed-cell core structure placed between polymer coated glass fibre facings
Angle/Z-Girt Screws	#12-14 x ¾" Hex Washer Head #3 Drill Point Carbon Steel NZF 3000 Leland Master Driller®
Wall Attachment Screws	Wood: #14-10 x 2 ½" Hex Washer Head Carbon Steel NZF 3000 Leland Master Gripper® Concrete: ¼" x 2 ¼" Hex Head Simpson TITEN® TTN25214HSS 410 S/S Screw



Vertical Angle



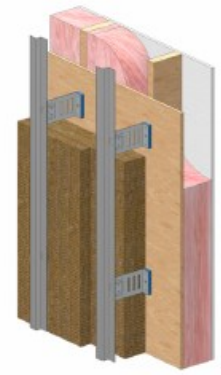
Vertical Z-Girt



Horizontal Angle



Horizontal Z-Girt



THERMAL TRANSMITTANCE—WOOD FRAME ASSEMBLY

Table 1. Thermal Transmittance for Split Insulated Wood-Framed Wall Assembly with Galvanized Steel ACS U-Clip® with Vertical Z-Girt Outboard of Insulation¹

Thickness of Exterior Mineral Wool Insulation	Exterior Insulation 1D R-Value ²	16" x 24" Clip Spacing		16" x 36" Clip Spacing		16" x 48" Clip Spacing	
		R-Value	Transmittance	R-Value	Transmittance	R-Value	Transmittance
	ft ² ·hr·°F/Btu (m ² ·K/W)	ft ² ·hr·°F/Btu (m ² ·K/W)	Btu/ft ² ·hr·°F (W/m ² ·K)	ft ² ·hr·°F/Btu (m ² ·K/W)	Btu/ft ² ·hr·°F (W/m ² ·K)	ft ² ·hr·°F/Btu (m ² ·K/W)	Btu/ft ² ·hr·°F (W/m ² ·K)
2" (51mm)	8.6 (1.52)	29.1 (5.12)	0.034 (0.195)	29.6 (5.21)	0.034 (0.192)	29.8 (5.24)	0.034 (0.191)
3" (76mm)	12.9 (2.27)	32.5 (5.72)	0.031 (0.175)	33.3 (5.86)	0.030 (0.171)	33.6 (5.92)	0.030 (0.169)
4" (102mm)	17.2 (3.03)	35.8 (6.3)	0.028 (0.159)	36.9 (6.49)	0.027 (0.154)	37.4 (6.58)	0.027 (0.152)
5" (127mm)	21.5 (3.79)	39.0 (6.86)	0.026 (0.146)	40.4 (7.11)	0.025 (0.141)	41.1 (7.24)	0.024 (0.138)
6" (152mm)	25.8 (4.55)	42.0 (7.41)	0.024 (0.135)	43.8 (7.72)	0.023 (0.129)	44.7 (7.88)	0.022 (0.127)

Table 2. Thermal Transmittance for Split Insulated Wood-Framed Wall Assembly with Galvanized Steel ACS U-Clip® with Vertical L-Angle Penetrating Exterior Insulation¹

Thickness of Exterior Mineral Wool Insulation	Exterior Insulation 1D R-Value ²	16" x 24" Clip Spacing		16" x 36" Clip Spacing		16" x 48" Clip Spacing	
		R-Value	Transmittance	R-Value	Transmittance	R-Value	Transmittance
	ft ² ·hr·°F/Btu (m ² ·K/W)	ft ² ·hr·°F/Btu (m ² ·K/W)	Btu/ft ² ·hr·°F (W/m ² ·K)	ft ² ·hr·°F/Btu (m ² ·K/W)	Btu/ft ² ·hr·°F (W/m ² ·K)	ft ² ·hr·°F/Btu (m ² ·K/W)	Btu/ft ² ·hr·°F (W/m ² ·K)
2" (51mm)	8.6 (1.52)	28.6 (5.03)	0.035 (0.199)	29.0 (5.10)	0.035 (0.196)	29.1 (5.13)	0.034 (0.195)
3" (76mm)	12.9 (2.27)	32.0 (5.64)	0.031 (0.177)	32.7 (5.76)	0.031 (0.173)	33.0 (5.82)	0.030 (0.172)
4" (102mm)	17.2 (3.03)	35.3 (6.21)	0.028 (0.161)	36.4 (6.40)	0.028 (0.156)	36.8 (6.48)	0.027 (0.154)
5" (127mm)	21.5 (3.79)	38.5 (6.77)	0.026 (0.148)	39.9 (7.03)	0.025 (0.142)	40.5 (7.14)	0.025 (0.140)
6" (152mm)	25.8 (4.55)	41.5 (7.31)	0.024 (0.137)	43.3 (7.63)	0.023 (0.131)	44.1 (7.77)	0.023 (0.129)

¹ Thermal modeling for the ACS U-Clip® was completed by building envelope specialists, EVOKE Buildings Engineering Inc., using Siemens Simcenter 3D thermal simulation software. Contact ACS Composite Systems Inc. for a copy of the full report.

² Exterior Insulation 1D R-Value does not include the impact of the back-up wall which adds R-24.3 to the overall nominal R-Value.

