

Miller ShockFusion™/Fusion™ Base Plates and Mounting Assemblies

Description

Miller ShockFusion Horizontal Lifeline Roof Systems are available in custom-engineered systems and straight-line system kits. Miller ShockFusion/Fusion base plates and mounting assemblies allow the system to adapt to a variety of roof surfaces. Base plates (with mounting assemblies) are also used to mount the Miller Fusion Roof Post for use as a single anchorage point for a personal fall arrest system (See Fusion Instruction Manual).

This spec sheet addresses the base plates and mounting assemblies. Spec sheets for other system components are available:

Miller ShockFusion and Fusion Roof Posts (SP452)

Miller ShockFusion Cable Assembly Components (SP485)

Materials

BASE PLATES

Standing Seam, Wood and Metal:
Membrane:

Zinc-Plated/Powder Coated
Yellow Zinc Chromate Plated Steel

MOUNTING ASSEMBLIES

Standing Seam Clamps: Anodized 6061-T6 Aluminum
Extension Bars: 304 and 18-8 Stainless Steel
Rivets: Aluminum, Steel, Neoprene
Toggle Bolts: Zinc-Plated Steel, PVC, Neoprene
Lag Screws: Hot Dipped Galvanized C1006-C1022 Steel
Concrete Expansion Anchors: 18-8 Stainless Steel

Technical

BASE PLATES

Maximum Capacity: See ShockFusion Instruction Manual
Ultimate Strength: 5,000 lbs. (22.2 kN)

MOUNTING ASSEMBLIES

ShockFusion Standing Seam Clamp (each)
Tensile Strength: 1,000 lbs. (4.4 kN)
Shear Strength: 1,250 lbs. (5.6 kN)
Fusion Standing Seam Clamp (each)
Tensile Strength: 1,000 lbs. (4.4 kN)
Shear Strength: 1,250 lbs. (5.6 kN)
Toggle Bolt: M10 x 1.5*
Lag Screw: 5/16-in. Grade 2*

**Must be designed for each installation, depending on installation method*

Concrete Expansion Anchor (each, 4 ksi concrete)
Tensile Strength: 4,760 lbs. (21.2 kN)
Shear Strength: 4,975 lbs. (22.1 kN)

X11010

Small Base for Standing Seam and Metal Sheathing Roofs



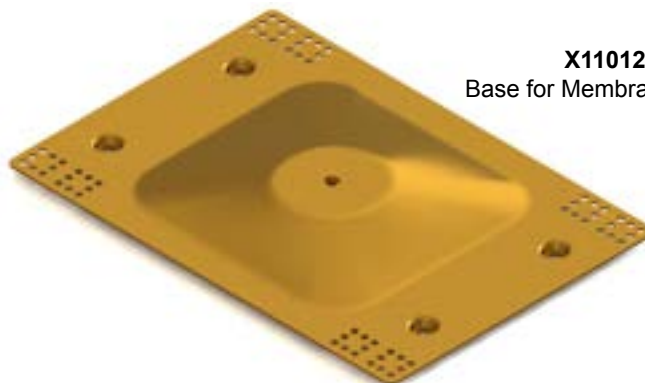
X11011

Large Base for Standing Seam Roofs



X11012

Base for Membrane Roofs



X11013

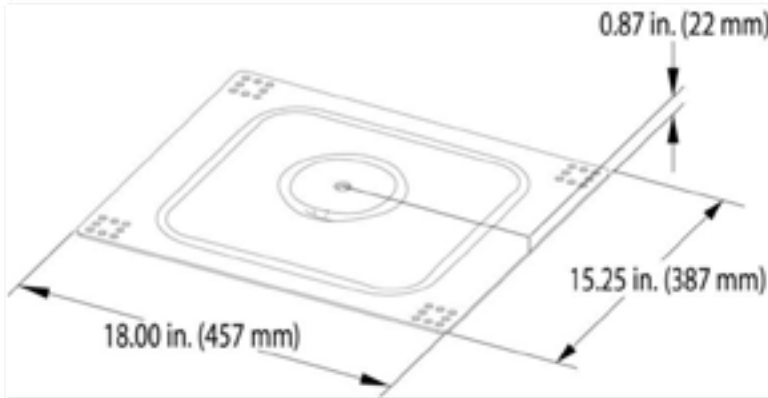
Multipurpose Base for Metal Sheathing, Trapezoidal, Wood and Concrete Roofs



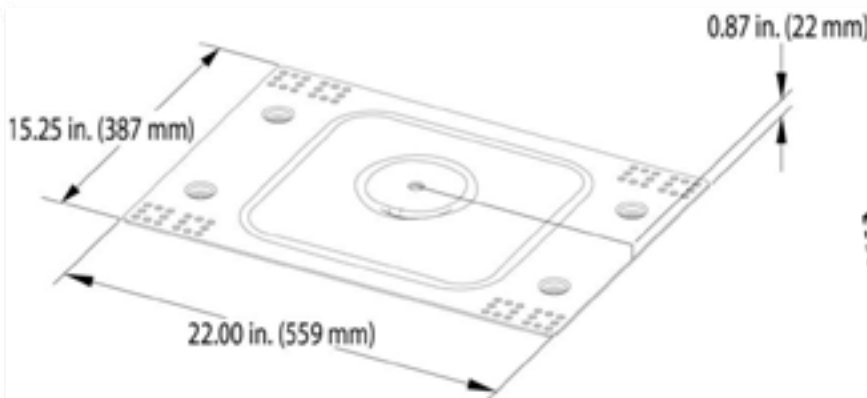
Certifications

All system components meet the design requirements as set forth in OSHA 1926.502, OSHA 1910.66, ANSI A10.32-04, ANSI Z359.6, CSAZ259.16-2004, and EN795 Class C. Please note, however, that the system as a whole once installed must be deemed to be in compliance with these standards by a qualified engineer.

Miller ShockFusion™/Fusion™ Base Plates and Mounting Assemblies

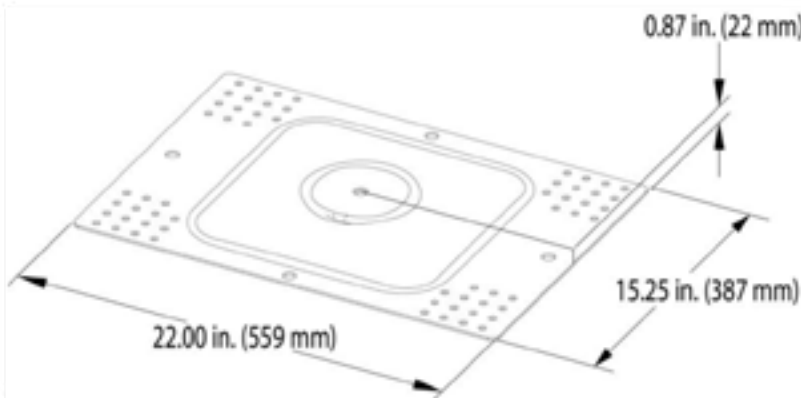


X11010
Small Base for Standing Seam
and Metal Sheathing Roofs



X11011
Large Base for Standing Seam Roofs

X11012
Base for Membrane Roofs



X11013
Multipurpose Base for Metal
Sheathing, Trapazoidal, Wood and
Concrete Roofs

Miller ShockFusion™/Fusion™ Base Plates and Mounting Assemblies

Fusion Standing Seam Kit (X11001)



Rivet Kit (X11003)
with Sealing Washers
and Mastic Tape



Toggle Bolt Kit (X11004)
for Membrane Roofing
up to 5.5 in. Thick

Toggle Bolt Kit (X11005)
for Membrane Roofing > 5.5 in.
up to 10.5 in. Thick



Lag Screw Kit (X11006)



Concrete Expansion Bolt
Anchor Kit (X11007)



ShockFusion Standing Seam Kit
(X11018)



Fusion Standing Seam Kit (X11019)
for up to 24 in. Spacing with
Extension Bars and Clamp Assemblies



ShockFusion Standing Seam Kit (X11020)
for up to 24 in. Spacing
with Extension Bars, Stiffeners,
Shims and Clamp Assemblies

Miller ShockFusion™/Fusion™ Base Plates and Mounting Assemblies

Bases	Paired with Roof Mounting Assemblies	Designed to Accommodate	Weight of Bases	Weight of Mounting Assemblies
X11010* Small Base for Standing Seam and Metal Sheathing Roofs	X11001* Fusion Standing Seam Kit	Connection of Fusion Intermediate Post to standing seam spacing from 11.75 in. (298mm) to 17 in. (432mm)	10.8 lbs. (4.9kg)	3.5 lbs. (1.6 kg)
	X11018 ShockFusion Standing Seam Kit	Connection of ShockFusion End/Corner Post to standing seam spacing from 11.75 in. (298mm) to 17 in. (432mm)		5.0 lbs. (2.3 kg)
	X11003 Rivet Kit with Sealing Washers and Mastic Tape	Connection of Fusion Intermediate Post or ShockFusion End/Corner Post to metal sheathing with minimum thickness of 24 gauge (0.024 in. [0.61mm])		0.5 lbs. (0.2 kg)
X11011 Large Base for Standing Seam Roofs	X11001* Fusion Standing Seam Kit	Connection of Fusion Intermediate Post to standing seam spacing from 11.75 in. (298mm) to 21.25 in. (540mm)	12.8 lbs. (5.8kg)	3.5 lbs. (1.6 kg)
	X11019* Fusion Standing Seam Kit for up to 24 in. (610mm) spacing	Connection of Fusion Intermediate Post to standing seam spacing from 21.25 in. (540mm) to 24 in. (610mm)		10.25 lbs. (4.6 kg)
	X11018 ShockFusion Standing Seam Kit	Connection of ShockFusion End/Corner Post to standing seam spacing from 11.75 in. (298mm) to 21.25 in. (540mm)		5.0 lbs. (2.3 kg)
	X11020 ShockFusion Standing Seam Kit for up to 24 in. (610mm) spacing	Connection of ShockFusion End/Corner Post to standing seam spacing from 21.25 in. (540mm) to 24 in. (610mm)		15.25 lbs. (7.0 kg)
X11012 Base for Membrane Roofs	X11004 Toggle Bolt Kit for Membrane Roofing up to 5.5 in. (140mm) thick	Connection of Fusion Intermediate Post or ShockFusion End/Corner Post through membrane, insulation and into metal sheathing, wood sheathing or concrete with a combined thickness of up to 5.5 in. (140mm)	12.7 lbs. (5.75kg)	1.0 lbs. (0.5 kg)
	X11005 Toggle Bolt Kit for Membrane Roofing > 5.5 in. (140mm) up to 10.5 in. (267mm) thick	Connection of Fusion Intermediate Post or ShockFusion End/Corner Post through membrane, insulation and into metal sheathing, wood sheathing or concrete with a combined thickness of > 5.5 in. (140mm) up to 10.5 in. (267mm)		1.25 lbs. (0.6 kg)
X11013 Multipurpose Base for Metal Sheathing, Trapezoidal, Wood and Concrete Roofs	X11003 Rivet Kit with Sealing Washers and Mastic Tape	Connection of Fusion Intermediate Post or ShockFusion End/Corner Post to metal sheathing with minimum thickness of 24 gauge (0.024 in. [0.61mm]) or trapezoidal spacing of 8 in. (203mm) to 20 in. (508mm) in 1 in. (25.5mm) increments	12.8 lbs. (5.8kg)	0.5 lbs. (0.2 kg)
	X11006 Lag Screw Kit	Connection of Fusion Intermediate Post or ShockFusion End/Corner Post to plywood with minimum thickness of 5/8 in. (15.9mm) CDX		0.5 lbs. (0.2 kg)
	X11007 Concrete Expansion Bolt Anchor Kit	Connection of Fusion Intermediate Post or ShockFusion End/Corner Post to concrete decking with minimum thickness of 6.5 in. (165mm) and minimum concrete compressive strength of 3000 PSI (20.7 MPa)		1.25 lbs. (0.6 kg)

*Note: Small Base X11010 and Fusion Standing Seam Kits X11001 and X11019 are not available with ShockFusion Straight-Line System Kits.

For more information about custom-engineered systems, please contact Miller Engineered Solutions:

800.325.6746



For more information about straight-line system kits, please contact Honeywell Technical Service:

800.873.5242

by Honeywell

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WARNING! THIS DOCUMENT PROVIDES AN OVERVIEW OF FALL PROTECTION PRODUCTS AVAILABLE FROM HONEYWELL AND CARE HAS BEEN TAKEN TO ASSURE THE ACCURACY OF THE DATA. IT DOES NOT PROVIDE IMPORTANT PRODUCT WARNINGS AND INSTRUCTIONS. HONEYWELL RECOMMENDS ALL USERS OF FALL PROTECTION EQUIPMENT UNDERGO THOROUGH TRAINING, AND THAT ALL WARNINGS AND INSTRUCTIONS PROVIDED WITH THE PRODUCTS BE THOROUGHLY READ AND UNDERSTOOD PRIOR TO EACH USE. FAILURE TO READ AND FOLLOW ALL PRODUCT WARNINGS AND INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.