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: Zinc-Plated/Powder Coated Membrane: 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 Zinc-Plated Steel, PVC, Neopre **Toggle Bolts:** 

Hot Dipped Galvanized Lag Screws: C1006-C1022 Steel

Concrete Expansion Anchors: 18-8 Stainless Steel

#### **Technical**

#### **BASE PLATES**

**Maximum Capacity:** See ShockFusion Instruction

**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)

1,000 lbs. (4.4 kN) **Tensile Strength: Shear Strength:** 1,250 lbs. (5.6 kN)

**Toggle Bolt:** M10 x 1.5\* Lag Screw: 5/16-in. Grade 2\*

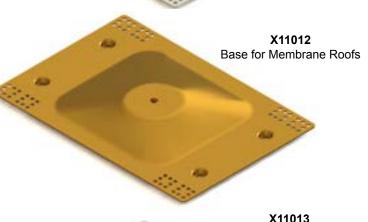
\*Must be designed for each installation, depending on installation method

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

#### X11010

Small Base for Standing Seam and Metal **Sheathing Roofs** 

#### X11011 Large Base for Standing Seam Roofs

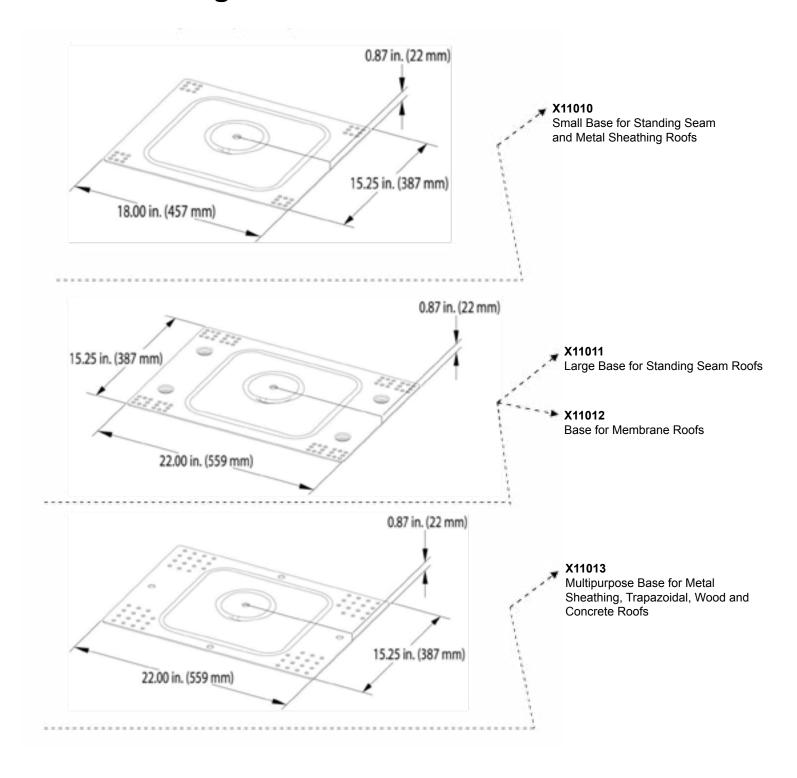


Multipurpose Base for Metal Sheathing, Trapazoidal, Wood and Concrete Roofs

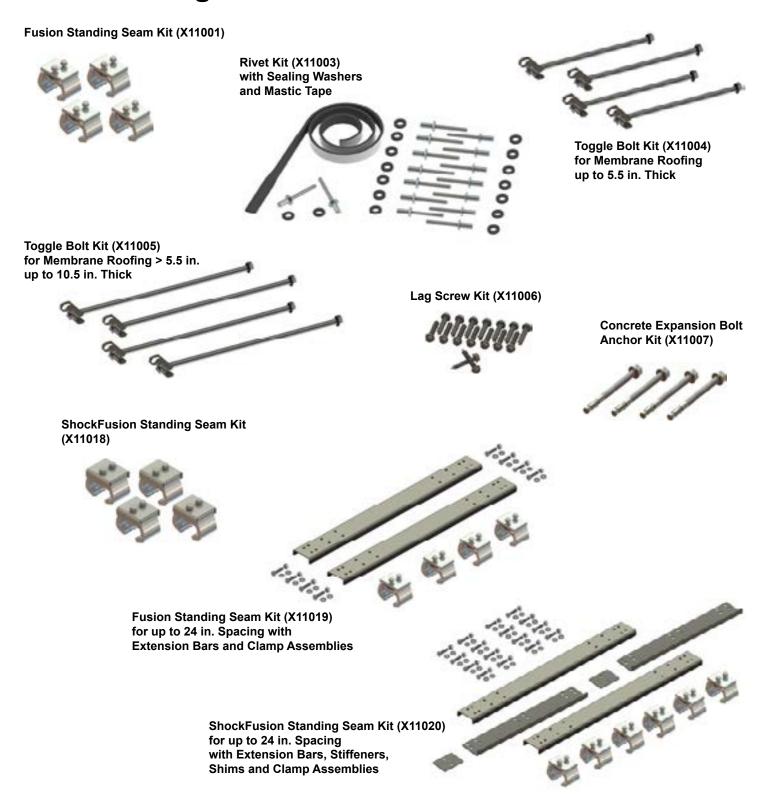
#### **Certifications**

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.

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Bases	Paired with Roof Mounting Assemblies	Designed to Accommodate	Weight of Bases	Weight of Mounting Assemblies
X11010* Small Base for Standing Seam and Metal Sheath- ing 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 Roof- ing > 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)

<sup>\*</sup>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 customengineered systems, please contact Miller Engineered Solutions:

800.325.6746



For more information about straightline system kits, please contact Honeywell Technical Service:

800.873.5242

### by Honeywell

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