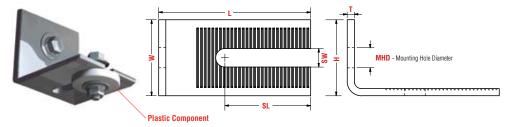


FERO BREAK-AWAY FIRE-RELEASE CONNECTORS SPECIFICATIONS AND ORDERING

When ordering please forward the following specifications from the structural designer:

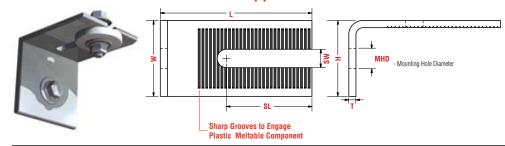
If specifying Custom Connectors - use column provided.

Standard Connector for Lateral Support



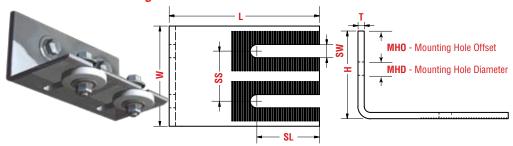
Dimension	mm	Custom
L - Length		
W - Width	30	
H - Height	50	
T - Thickness	6.35	
SL - Slot Length		
SW - Slot Width	7.35	
MHD -	7.35	
Order Quantity		

Inverted Connector for Lateral Support



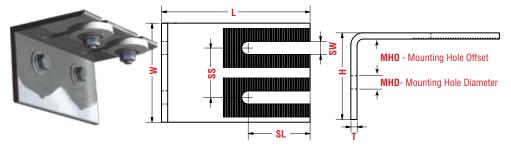
Dimension	mm	Custom
L - Length		
W - Width	30	
H - Height	50	
T - Thickness	6.35	
SL - Slot Length		
SW - Slot Width	7.35	
MHD -	7.35	
Order Quantity		

Dual Load Bearing Connector



Dimension	mm
L - Length	
W - Width	
H - Height	
T - Thickness	
SL - Slot Length	
SW - Slot Width	
SS - Slot Separation	
MHO - Mounting Hole Offset	
MHD - Mounting Hole Diameter	
Order Quantity	

Dual Inverted Load Bearing Connector



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Dimension	mm
L - Length	
W - Width	
H - Height	
T - Thickness	
SL - Slot Length	
SW - Slot Width	
SS - Slot Separation	
MHO - Mounting Hole Offset	
MHD - Mounting Hole Diameter	
Order Quantity	



BREAK-AWAY FIRE-RELEASE CONNECTORS

TECHNICAL INFORMATION

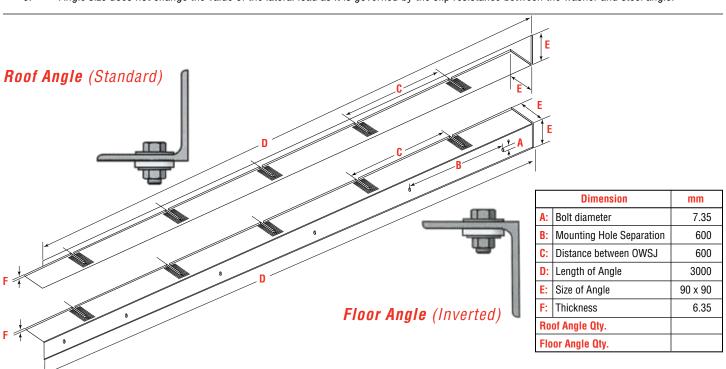
Pre-engineered 152 mm long (6 inch) *FERO Break-Away Fire-Release Connector* is able to resist ultimate/factored loads from the flooring system up to the values given in TABLE 1.

TABLE 1 - DESIGN INFORMATION 1

Angle Dimensions (mm) F		Vertical Resistance	Bolt Diameter	Washer ⁴ Dimensions (mm)			Resistance	Angle Configuration
L ²	<i>t</i> _a ³	$P_{\rm r}$ (kN) ⁵	(mm)	$D_{ m outer}$	$D_{ m inner}$	t _w	$V_{\rm r}$ (kN) ^{5,6}	
	7.9	3.5						
	9.5	5.2						0
127	13	9.9						0
	16	15.4						330
	19	21.7	19	38	19	10.6	10.0	C 30
	9.5	4.3						ALC: NO.
	13	8.2						l Pr
152	16	12.6						''
	19	18.1						
203	13	6.0						# 1

- 1. Table values are the maximum vertical and lateral loads resisted by a support angle made of steel with a yield stress equal to 245 MPa.

 These values are for a discrete 150 mm (6 inch) long angle with two (2) slots and washers as shown in FIG 1. Longer and/or continuous angles with more than two slots are able to resist higher loads.
- 2. Dimension is for the horizontal leg of the angle.
- 3. Angle thickness has been reduced in calculations by 10% to account for surface roughening.
- 4. Washer's material has the following properties: Compressive Strength of 100 MPa, Compressive Modulus of 2.9 GPa, and a coefficient of friction with steel of 0.4.
- 5. The maximum vertical and lateral resistances are based on the ultimate limit states design approach assuming the bolts used secure the connection to be ¾ inch in size (19 mm) and made of grade 4.6 (Fy = 248 MPa and Fu = 413 MPa).
- 6. Angle size does not change the value of the lateral load as it is governed by the slip resistance between the washer and steel angle.



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