

# EXTENDED COVERAGE

## Extra Hazard (NFPA13) Standard Response Sprinkler Horizontal Sidewall



### DESCRIPTION:

The horizontal sidewall sprinkler model MBEC-14 is a special application sprinkler for the protection of metal buildings with purlin roof support. The sprinkler has a very extra large orifice, Nominal K=14 (200). When the system is designed to NFPA 13 requirements, MBEC-14 sprinklers provide protection in Ordinary Hazard (Groups 1 and 2) and Extra Hazard (Groups 1 and 2) Occupancies to 175 ft<sup>2</sup> (16.3 m<sup>2</sup>) per sprinkler. These sprinklers must be installed according to this data sheet. FM does not permit the use of these sprinklers in areas with flammable liquids or shielded discharge.

### TECHNICAL DATA:

Nominal "K" Factor	14 (200 metric)
Thread Size	3/4" NPT (R3/4)
Nominal Orifice	0,70" (18 mm)
Temperatures	165°F (74°C) 212 °F (100°C)
Minimum Sprinkler Spacing	7 ft (2,1 m) for NFPA and 8 ft (2,4 m) for FM
Maximum Sprinkler Spacing	14 ft (4,3 m)
Maximum water discharge length from pipe	12,5 ft (3,8 m)
Maximum coverage area	175 ft <sup>2</sup> (16 m <sup>2</sup> )
Minimum density	0,21 gpm/ft <sup>2</sup> (8,56 lpm/m <sup>2</sup> )
Maximum building height peak	32 ft (9,8 m)
Maximum protected bay width	25 ft (7,6 m)
Minimum distance from Deflector to commodity clearance	10 ft (3,1 m)
Deflector distance below roof/ceiling	From 12" (305 mm) to 16" (406 mm)
In sloping ceilings	Not exceeding 2" (50,8 mm) of rise in 12" (305 mm)
Maximum / Minimum Operating Pressure	175 psi (12 bar) / 7 psi (0,5 bar)
Finishes <sup>(1)</sup>	Brone Chrome

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### OPERATION:

The sprinkler model MBEC-14 uses a central link with compression weld. The fusible is captured in the capsule cylinder through a stainless steel ball. When the fusible melts, the ball displaces through the cylinder, allowing the cylinder to separate from the central link. When it occurs, the lever is liberated and it removes from the sprinkler, this way all the operating items unblock the water way and allow the deflector to distribute the water discharge.

### INSTALLATION:

Model MBEC-14 sprinklers are designed for installation as specified in NFPA 13. They must also be installed with the Model AG3 Sprinkler Wrench specifically designed.

The sprinkler joint can be obtained with a torque of 14-20 ft-lbs (19-27,1 N-m). Do not tighten sprinklers over maximum recommended torque. It may cause leakage or impairment of these sprinklers..

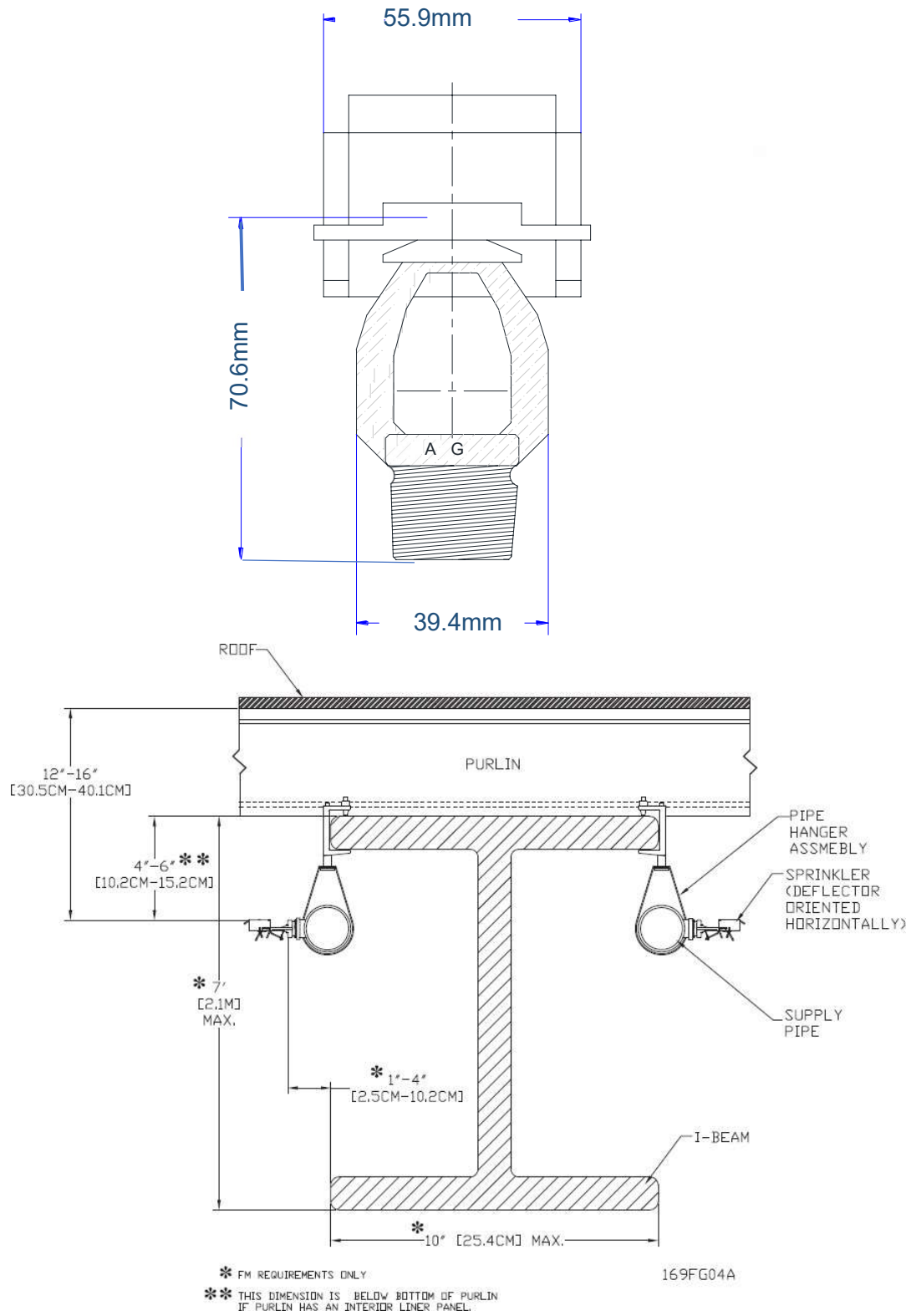
### TEMPERATURE RATING:

Classification	Nominal Sprinkler Temperature		Maximum Ceiling Temperature	
	°F	°C	°F	°C
Ordinary	165	74	100	38
Intermediate	212	100	150	66

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## DIMENSIONS:



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