

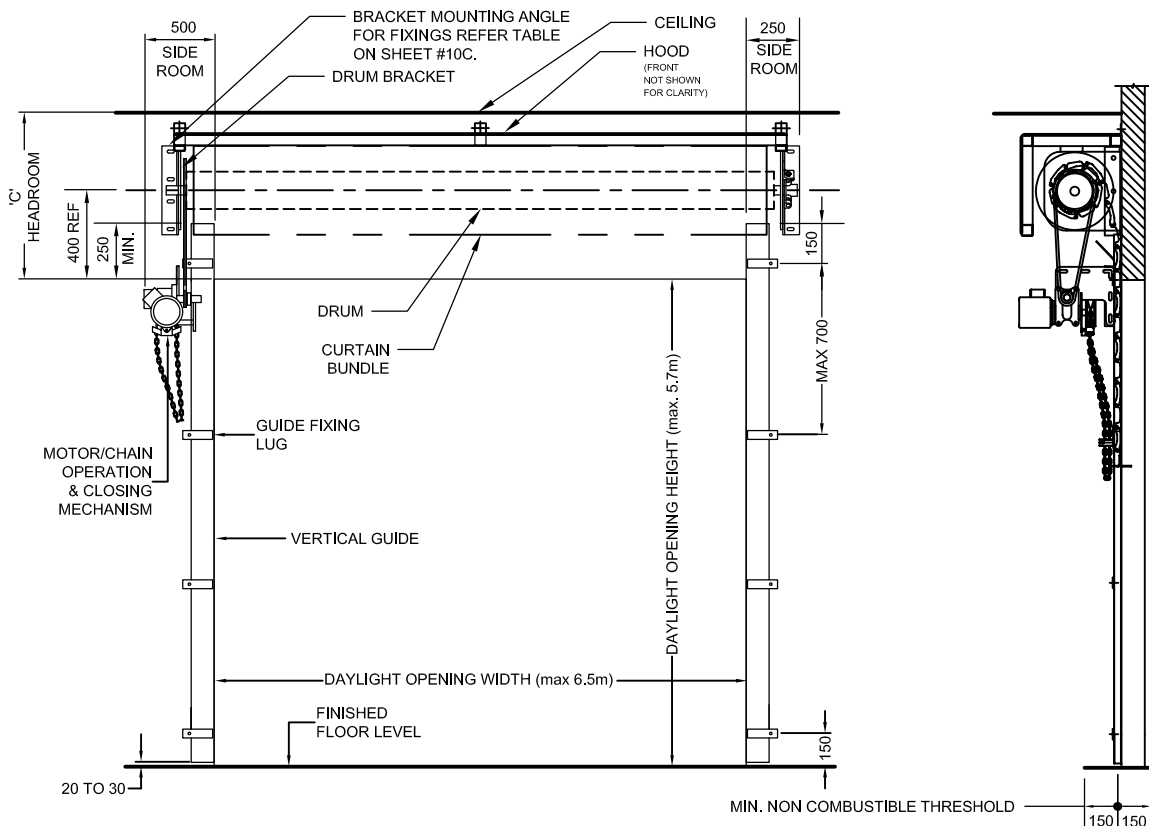
## Fire Rated Steel Roller Shutters General Information & Arrangement

### 1. CSIRO Test Report FSV 0740, Certificate of Test #1041 and Letter of Opinion

In February 2000 CSIRO tested a Mirage Steel Fire Shutter 2.2m high by 2.4m wide (the maximum size shutter that could be fire tested) and issued a report FSV 0740 and Test Certificate #1041 that the shutter satisfied a Fire Resistance Level (FRL) of -/240/0.

Under AS 1905.2-2005 shutters larger than the test size are permitted if supported by a formal opinion from a registered testing authority, the latest of which is Exova Assessment Report #27544-07, which expires 31<sup>st</sup> January 2018. This opinion included for the first time the mandatory use of hoods and drum support frames for large shutters.

### 2. General Arrangement



**Please Note:** This Fire Shutter is designed for use in walls and other elements of construction required to provide fire resistance. Reference should be made to the requirements of Building Code of Australia and materials tested to AS1530. This Fire Shutter should be installed in conjunction with the requirements of AS1905.2 and Exova Letter of Opinion Report #27544-07.

Drum Size Refer Sheet #10C (mm)	(Hood Only)		(Hood with Drum Support Frame)	
	Recommended Headroom Dim 'C'	Minimum Headroom Dim 'C'	Recommended Headroom Dim 'C'	Minimum Headroom Dim 'C'
Ø168	1000	700	1120	700
Ø219	1025	725	1150	725
Ø273	1050	750	1200	750

### 3. Fire Resistance Level and Drenching Option

As stated above the Fire Shutter has a maximum FRL of -/240/0. This data sheet and Technical Data Sheet 10C (Technical Data Sheet 10B is common to all fire shutters) specify fire shutter details that are required for that maximum rating.

The Exova report does include specifications for shutters with FRL of -/120/0 but these shutters will only be supplied when shutter height exceeds 5.7m. Request for these shutters should be referred to Engineering for confirmation of specifications

There may be some requests for a fire shutter to have a 30 minute insulation rating (i.e. FRL = -/240/30) which, under CSIRO Assessment Report #FCO-3002 (valid to 31 July 2018), can be achieved by addition of a drencher system. This drencher system applied to each face of shutter, delivering minimum of 0.2L/sec per square metre of door area, of continuous and even water cover onto shutter surface would achieve an FRL of -/240/30.

### 4. Descent Mechanism Options:

**Standard:** Fusible Link Only – when temperature gets above 71°C link breaks and door will close automatically.

**Optional:** Fusible Link & Magnet – link works as above, or when a smoke detector registers smoke & sends signal to Fire Board (FIB) then FIB terminates a continuous 24V DC power to magnet and magnet releases and door will close (all wiring from FIB to magnet is carried out by others).

**NB:** This data sheet should be read in conjunction with Technical Data Sheets 10B & 10C to obtain the full specifications of the Mirage Fire Shutter. Reference can also be made to AS 1905.4 – 2005 'Components for the protection of openings in fire - resistant walls. Part 2: Fire-resistant Roller Shutters.

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