

FRH and FDV Fire Damper/Exhaust Valve Plasterboard Ceiling Installation Instructions

IMPORTANT: FRH/FDV Fire Dampers are not suitable for highly aggressive or humid environments

The following instructions refer to mounting the FRH and FDV fire dampers in plasterboard ceilings. AS1682.2-1990 requires fire dampers to be installed in the same method as tested. These installation details are derived from the test.

*The Australian & NZ Building Codes require fire dampers to comply with AS1682-1990 Part 1 & 2 and AS1530.4-1997 as the Acceptable solution. The FRH complies with the Australian & NZ Building Codes as an Alternative solution (incorporating AS1682 as a guide-line). Verification as follows: **BRANZ Assessment FAR2687 dated 15 March 2006, BRANZ Fire Resistance Test FP2376 dated 31.07.1997 and BRANZ Assessment FAR 97/1026 dated 10.01.1997. The results of test No FP2376 confirm the plasterboard mounting system for the FRH will satisfy AS1530.4-1990 for 120 minutes.***

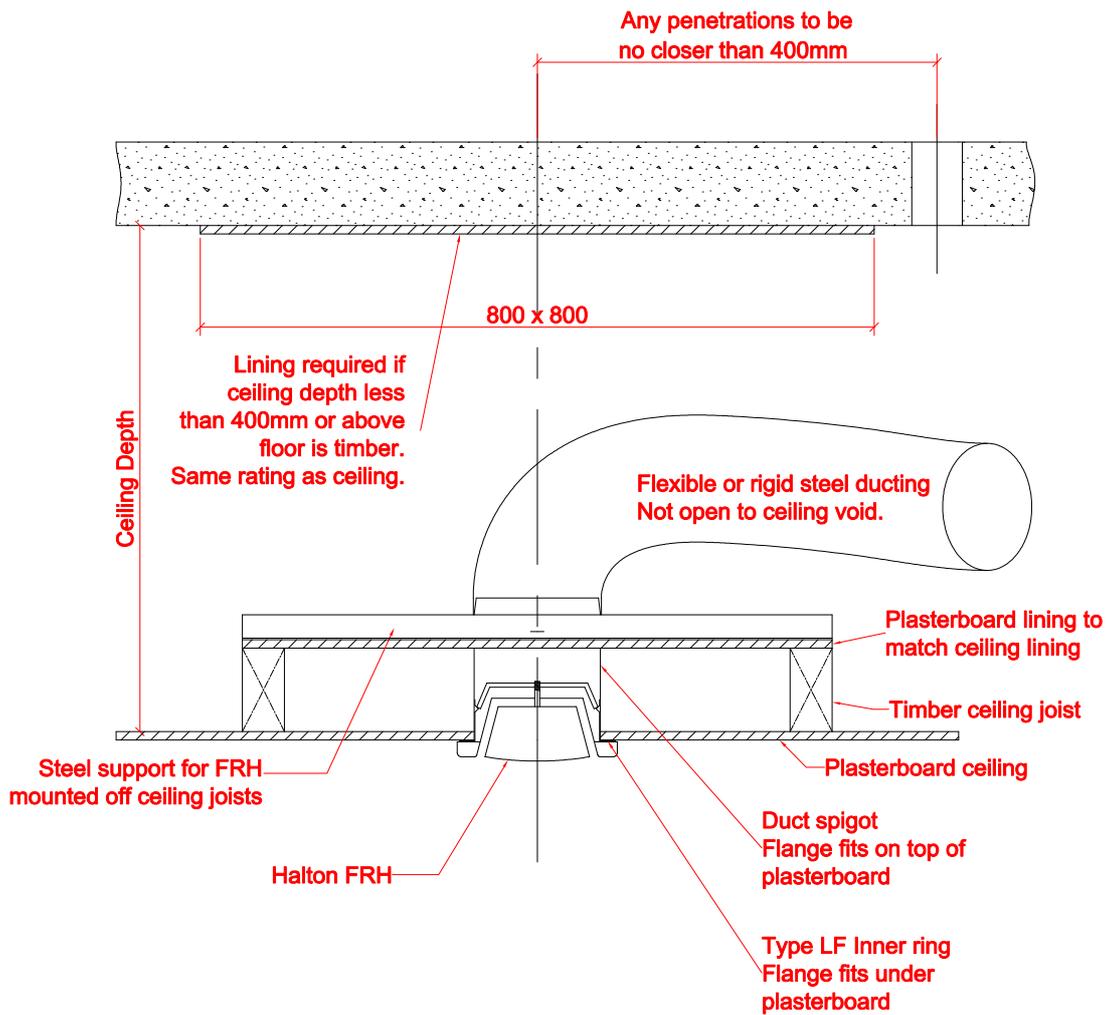
Halton FRH fire dampers have been tested for installation in masonry walls and floors overseas and have achieved a fire rating of 2 hours. Refer to Malcolm Ravenscroft Ltd for further detail. Separate installation instructions are available for concrete/masonry wall options.

Damper Installation:

1. Refer to the drawing on the reverse side of this page.
2. The best time to commence installation of the FRH or FDV is after the ceiling joists have been installed and before the plasterboard ceiling panels are installed.
3. Fit a sheet of plasterboard (Use the same type and FRR rating as is being used for the ceiling) over the top of the ceiling joists. This should be square, so if the joists are 600mm apart, then it will be 600x600mm.
4. Fit an 800x800mm square sheet of plasterboard (same type and FRR rating as being used for the ceiling) onto the underside of the floor that forms the top of the ceiling space. This is only required if the ceiling space is less than 400mm deep, or the floor above is constructed from timber or combustible materials.
5. Cut a hole in the plasterboard (that is fixed to the top of the ceiling joists), large enough to accommodate the duct spigot and mount two steel support angles, supplied by others (as a minimum, 1.2mm galvanised sheet bent to form a 50x50 angle) on top of the plasterboard.
6. Fit the duct spigot flange so that the bottom flange is flush with the bottom of the ceiling joists, fix it in position using rivets into the steel support angles. **This is critical, as the FRH must be supported by these steel angles and not by the plasterboard ceiling panel.**
7. Connect the ducting to the duct spigot protruding through the plasterboard mounted above the ceiling joists.
8. The plasterboard ceiling can now be installed.
9. Cut a hole through the plasterboard ceiling the same diameter as the LF installation ring.
10. Push the LF inner ring into the already installed duct spigot and secure this to the under side of the plasterboard with PK screws that should be long enough to go through the bottom flange of the duct spigot, thus sandwiching the plasterboard between the two flanges.
11. Screw the FRH into the LF inner ring until the lips of the flange fit snugly against the ceiling.

Airflow Adjustment

The airflow through the FRH can be adjusted by rotating the inner cone of the FRH in and out on its threaded adjustment rod.



Installation Procedure
 Screw LF Inner ring through plasterboard to duct spigot
 Install FRH by screw action to inside of LF ring.

Ravenscroft's Ltd			
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		Project	
Scale: NTS	Drawing No: FRH -1	Rev	
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