

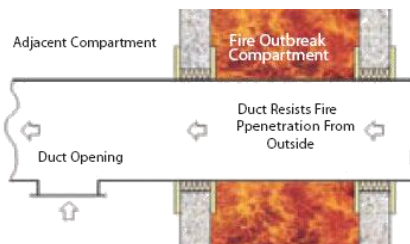


General

Smoke inhalation is the major cause of death in fire situation in buildings. Non – fire rated ductwork system can be responsible for allowing the initial spread of fire between the compartments, and by allowing the rapid spread of smoke. Under normal circumstance fire spread throughout the building is controlled by compartmentation using fire dampers however under certain circumstances it should not be used and the ductwork itself must provide the same levels of fire resistance as that provided by the compartment wall or floor.

“SFRD” system is a non coated fire rated duct work system , designed especially for ventilation fire rated ductwork and pressurization ductwork. “SFRD” fire duct is constructed from galvanized sheet steel manufactured to the SMACNA standard with a special construction features to withstand the exposure to fire condition for up to 2 hours and 4 hours . For larger sizes , the ductwork is fabricated in sections and installed in site using the tested gasket and sealant.

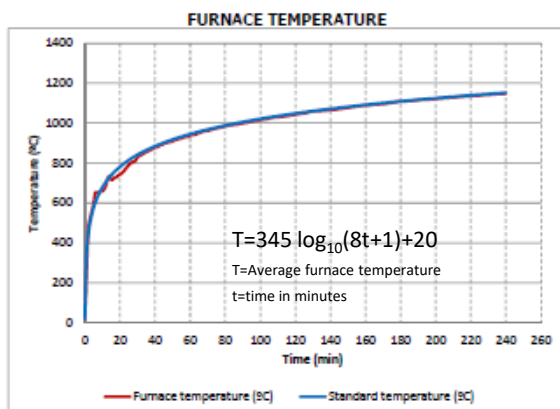
“SFRD” is tested and certified against BS 476- part 24:1987 for stability, integrity , insulation & EN 1366-1 for integrity ,smoke leakage , insulation.



Up to 4 hours Stability, Integrity & Insulation

Typical for escape lobby ventilation & staircase pressurization system

CELLULOSIC: STANDARD TIME & TEMPERATURE CURVE



The unique feature of the non-coated fire rated duct system “SFRD” is that it does not requires any external coating to achieve the required fire rating as our counterparts do. This enable us to produce twice as faster than other fire rated duct manufacturer and the long waiting for coating can be avoided. Also, it is economical over other fire rated ducts.



SASCO FIRE RATED DUCTWORK SYSTEM "SFRD"

"SFRD" Fire Rated Ductwork System is manufactured from Pre-galvanized sheet steel and is suitable for all Fire resisting Ductwork applications such as **Smoke Extract**, **Car Park Extract** and **Pressurization** in both horizontal and vertical orientation.

"SFRD" Fire Rated Ductwork system is designed as per **BS 5588 part 9:1999** that Tested to **BS 476: Part 24:1987** and **EN 1366-1:2014**.

"SFRD" is **Civil Defense approved** and has **achieved for both horizontal and vertical ducts – 120 minutes (2 hour fire rated) and 241 minutes (4 hours fire rated)**.

"SFRD" Fire Rated Ductwork is **Environmental Friendly** and Compatible with **ESTIDAMA** that doesn't require any external fire spray coating to achieve the required fire rating. Use of enhanced gauges of sheet metal, stronger flanges and stiffeners with dedicated Machinery and the robust hanging system provides fire rating for 120 minutes (2 hours fire rating) and 240 minutes (4 hours fire rating).



"SFRD" Fire Rated Ductwork has passed the stability, integrity criterion for up to 240 minutes & insulation for up to 14 minutes as per BS 476:part 24:1987 and it has also passed the integrity , smoke leakage criterion for up to 240 minutes & insulation for up to 14 minutes as per EN 1366:1 : 2014 .

The successful result against both BS & EN standard provides added advantage over the counterparts and gives additional confidence to the MEP contractor.



“SFRD” SYSTEM ADVANTAGE

The **“SFRD”** fire rated duct system offers the following advantage

The system is tested for up to 4 hours stability , integrity and insulation in accordance with BS 476: part 24:1987 and ISO for both type A and B ducts. The system is tested up to 4 hours Integrity, smoke leakage and insulation in accordance with EN 1366- 1:2014 “ Fire resistance test for service installations” Part 1: Ducts and EN 136-1:2012 “ Fire resistance tests: General Requirements”.

1. Most economical fire rated duct system available in the marker.
2. Considerably cheaper than the counter parts.
3. No intumescent painted surfaces to get damaged.
4. In house manufacturing ensures manufacturing quality and consistency.
5. All ductwork manufactured to SMACNA & DW 144 for high pressure
6. Smooth internal surfaces for cleaning.
7. Approved by Abu Dhabi Civil Defense.
8. Environmental Friendly.
9. Comply with ESTIDAMA.
10. Cost effective alternative to the use of fire dampers/smoke dampers and no on-going annual maintenance or inspection costs.
11. Our standard construction cover both horizontal and vertical ducts.
12. Heavy constructed access doors, VCD, sound attenuators for the fire rated duct work
13. “SFRD” fire rated duct work system is fully certified for any size of ductwork in the horizontal and vertical plane

