

## IMO A 471

International Maritime Organisation FR Standard

FR

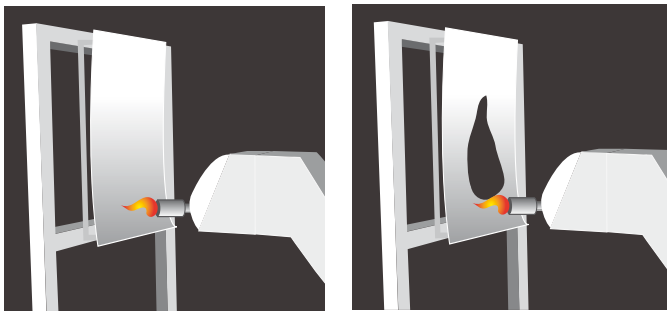
### Principle

IMO standard – FR fabric test for international marine industry and cruise ships

A fabric sample is placed vertically on a metal frame. A flame is applied to the surface and bottom edge of the fabric for 5 and 15 seconds.

The following parameters are observed:

- How long the fabric continues to burn after the flame is removed (after flame)
- How close the flames burn to the edges of the metal frame
- Do burning droplets of fabric fall and ignite the cotton wool pad in the testing chamber
- Measure the length of the burn damage after the flame is distinguished (char length)
- Does the flame cause a flash of fire when first touching the fabric (surface flash)



### Results

The fabric passes the IMO test if:

- The after flame is maximum 5 seconds or less
- The flame does not burn through to the edges of the metal frame
- The burning droplets do not ignite the cotton wool pad
- The length of burn damage is maximum 150mm
- There is no occurrence of a surface flash propagating the flame more than 1mm