



## **Our second-generation insulated fire shutter is now available!**

Simply named the IFS-2G, it was designed with **Code Compliance** in mind. Just check out the following features:-

### **Symmetrical curtain design, suitable for use as compartment walls**

An insulated fire shutter with a symmetrical design is permitted for use as a compartment wall as it provides protection from fire attacks from any direction.

**This is unlike that of an asymmetrical design.**

An asymmetrical design is one that was fire-tested with the exposed and unexposed surfaces made of different materials. A common example is a shutter with steel slats on one side and fabric curtain or other non-ferrous materials on the other side. The objective of such designs is to make it easier to satisfy the prescribed insulation performance criteria required to pass the fire test. However, such products are permitted for use where the fire attack is from one specific direction only. As such, they are non-compliant if used as compartment walls.

**This deficiency is never mentioned in the Certificate of Conformity. When in doubt, always seek verification from the relevant Certification Body.**

### **Able to fully close within 10 to 30 seconds**

This closing time range is a requirement prescribed by SS 489:2015 Cl 4.5.1 and Fire Code 2018 Cap 11 Table 11A (23). As this applies regardless of the width or height of the shutter, a flexible drive configuration is needed. The IFS-2G allows this flexibility for a wide range of sizes to close within this time range.

### **No need for guide encasements**

Clause 11.5.1 of the Fire Code 2018 requires all regulated fire safety products (including fire shutters) to be installed in the manner as the tested prototype described in the test report.

Most insulated fire shutters are fire-tested with the side guides encased in masonry to make it easier to pass the insulation test. **But in so doing, the use of such fire shutters must also include similar encasements in order to be compliant.**

This additional work and extra costs involved are often overlooked when evaluating the use of such fire shutters. The encasement also means more side room is needed for the shutter. In certain situations, this may render the product impractical.

**With this in mind, the IFS-2G was designed and tested without any guide encasement, thereby avoiding this unnecessary cost and hassle.**

*Note: The requirement for guide encasement is never mentioned in the Certificate of Conformity but can be easily spotted in the Test Photographs of the Fire Test Report. When in doubt, always seek confirmation from the relevant Certification Body.*

## **No e-source? Fail-safe model available as an affordable solution**

Clause 3.7.7 of the Fire Code requires electrically operated fire shutters to be backed up by Emergency Power Supply. Where such emergency power supply is not available, a fail-safe fire shutter is perhaps the most affordable solution.

The IFS-2G can be fitted with a fail-safe operator system that can be activated by the Fire Alarm system or a dedicated smoke/heat detector, or both. The fail-safe operator system will ensure automatic shutter closure by gravity whenever there is a power outage or any fault in the activation devices.

## **DfMA (PPVC) friendly**

The IFS-2G can be fully manufactured and assembled in the factory and delivered to site ready for installation. With minimal time and labour needed for site installation, the IFS-2G can be easily integrated into any PPVC module.

## **Built for daily usage**

Modern building designs are trending towards requiring fire shutters to also function as security shutters, even for main entrances. This eliminates the cost of having two separate shutters for the two different functions.

The IFS-2G is fitted with a durable custom-built motor operator that can accommodate frequent 'everyday' usage without compromising on its primary role as a fire shutter.

Click [here](#) for more details