

# QRS CE MARKED INTUMESCENT FIRE SLEEVES

QRS CE Marked Intumescent Fire Sleeves prevent the spread of fire where either rectangular or circular plastic ducts penetrate fire compartment walls.



QRS CE Marked Intumescent Fire Sleeve - rectangular



QRS CE Marked Intumescent Fire Sleeve installed in plasterboard partition

## FEATURES & BENEFITS

- CE Marked
- Tested to BSEN 1366-3 and classified according to EN 13501-2
- Tested with Uncapped / Uncapped (U/U) duct configurations as required for ventilation ducts
- Up to 2 hour fire rating
- Suitable for masonry walls or plasterboard partitions
- Suitable for insulated and non-insulated partitions
- Can be retrofitted
- No mechanical fixings required
- Robust galvanised steel shell
- Performance unaffected by weathering (Type X Durability)
- Can be installed as a cluster with multiple ducts
- Can be installed in conjunction with the QuelStop Fire Batt system



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This product is CE Marked.\*

\*QRS90, QRS130 and QRS110 are not currently CE Marked

## COMPOSITION

The QRS Fire Sleeve consists of a continuous pressed steel shell containing a high performance graphite based intumescent material which reacts under the influence of heat to exert pressure on the plastic vent duct as it softens to form a carbonaceous char which provides an effective insulation plug thus preventing fire passing through to the adjoining compartment.

The QRS is manufactured specifically to suit differing sizes and diameters of duct and is supplied ready to be fitted into the wall with an opening lid for retrofitting.

## DURABILITY

Tested to Type X durability which means the QRS CE Marked Intumescent Fire Sleeves can be installed in conditions exposed to weathering.



QRS CE Marked Intumescent Fire Sleeve - circular



QRS CE Marked Intumescent Fire Sleeve (circular) installed around semi-rigid duct in plasterboard partition

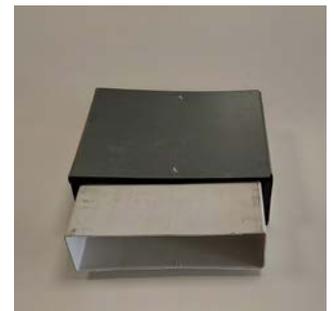
## APPLICATION / INSTALLATION

Quelfire QRS CE Marked Intumescent Fire Sleeves should be used where a plastic ventilation duct penetrates a fire rated wall to maintain the compartmentation in the event of a fire.

The QRS requires no mechanical fixing or framework support, they rely on the fire rated wall construction, plasterboard or solid masonry/block (or QuelStop Fire Batt) to hold it in place so the penetrations should be cut as tight as possible to the QRS Fire Sleeve itself, suggested approximate apertures sizes are given in the "performance" table below.

For the simplest installation, the QRS Fire Sleeve should be installed around the duct and then the wall installed tight around the QRS, however, they can be retrofitted into the wall too.

Simply hinge open the lid, feed around the duct, wrap tight and close the lid, secure shut with the self-adhesive tape supplied (or self tapping screw in the case of circular fire sleeves) and then slide the QRS along the duct into the wall construction.



The QRS should be installed centrally positioned within the wall and must be either flush or protruding from both sides of the wall in accordance with the relevant installation detail.

Once installed into the wall, in the correct position, the perimeter should be sealed with QuelStop Intumescent Acoustic Acrylic Sealant.

Where oversize hole or letterboxes with other services are formed then the QRS Fire Sleeve can be installed in conjunction with the QuelStop Fire Batt system having been tested in various wall constructions including with multiple ducts/QRS stacked or side by side.

Where a cluster of ducts/QRS are installed the QRS should be tight to each other, alternatively they need to be far enough apart to suitably install QuelStop Fire Batt or the original wall construction, all in accordance with the specific installation detail and tested scope of application.

## Typical installation details for the QRS Fire Sleeve

A full set of installation details and a step by step guide are available and we recommend you check all available data before commencing installation.

For full details of the tested scope of application and for installation details, please contact the Quelfire Technical Team.

## PERFORMANCE

QRS CE Marked Fire Sleeves are suitable for use around plastic ventilation ducts and are tested to BSEN 1366-3 and classified according to EN 13501-2 up to 2 hours integrity. For full details and performance information contact the Quelfire Technical Team. A summary of results is as follows:

Product Code	Duct Size (mm)	Approx. space needed around duct to fit QRS Fire Sleeve (mm)	Recommended approx. aperture (mm)	QRS length (mm)
QRS110/54	110 x 54	13	135 x 78	180
QRS205/60	205 x 60	13	230 x 85	180
QRS220/90	220 x 90	22	262 x 132	140
QRS75	75 Ø semi-rigid	8	90 Ø	140
QRS90*	90 Ø semi-rigid	13	116 Ø	140
QRS110*	100 Ø	18	135 Ø	180
QRS130*	125 Ø	23	170 Ø	180

\*QRS90, QRS130 and QRS110 are not currently CE Marked

### Technical Support & Guidance:

Should you require any further information regarding this product, please do not hesitate to contact the technical department at Quelfire Ltd.

Tel: **0161 928 7308**. Email: [technical@quelfire.co.uk](mailto:technical@quelfire.co.uk)

Please be aware that this document is intended for general information only and all details should be checked against all relevant supporting test evidence, certification and installation guidelines.

Use of alternative components or deviations from the instructions in any way is likely to mean that the installation will not comply with the assessed rating.

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