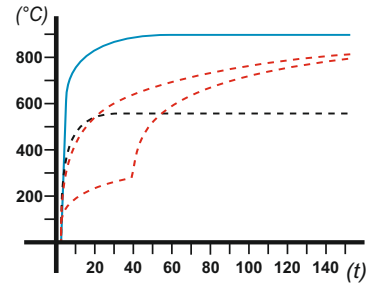




fire & smoke test data

All STS acoustic data is sourced, supplied and verified by independent, UKAS-accredited test facilities in accordance with all relevant British and European standards.

SMOKE: BS EN 1634-3:2004 at ambient temperature (Brush & SBS products)
FIRE: BS 476 pt22 & BS EN 1634-1 (Fire Only, Brush & SBS products)



STS INTUMESCENT SEALS

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PLEASE NOTE

The CERTIFIRE document **CF5820** covers Sealed Tight Solutions Ltd. product codes **STS 154FO**, **STS 154FS** and **STS 154SBS**. These products are suitable to be used with CERTIFIRE approved FD30 SL, SAL or unlatched timber doors of maximum leaf size 2040mm x 926mm and MINIMUM thickness 42mm.

Intumescent Only

Product code	Size*
STS 104FO	10mm x 4mm
STS 154FO	15mm x 4mm
STS 204FO	20mm x 4mm



Intumescent & Smoke (brush)

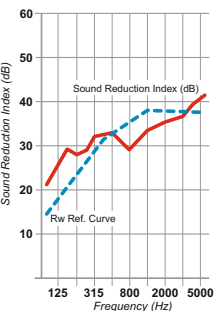
Product code	Size*
STS 104FS	10mm x 4mm
STS 154FS	15mm x 4mm



Intumescent, Smoke & Acoustic

STS "SBS"

Product code	Size*
STS 104SBS	10mm x 4mm
STS 154SBS	15mm x 4mm



acoustic test data

All STS acoustic data is sourced, supplied and verified by independent, UKAS-accredited test facilities in accordance with all relevant British and European standards.

ACOUSTIC: BS EN ISO 10140-2:2010 (SBS product)

- Approved Document 'E' (Passage of Sound)
- Approved Document 'B' (Fire Safety)
- Approved Document 'M' (Access To and Use of Buildings)
- Building Bulletin 93 (Acoustic design in schools)*

* See also: "Acoustic Performance Standards for the Priority Schools Building Programme" including: "Technical Guidance Document TGD-021-5 Acoustic Performance in Schools"

Characteristics / features - all products (unless otherwise stated)

Material	Standard lengths*	Colour(s)*	Performance**
Outer box section: PVC	2100mm, 2400mm, 3000mm	● BROWN	FD30 / FD60
Active product: Graphite		● BLACK	** SEE NOTE
Brush (FS only): Nylon		● GREY	
Blade (SBS only): Butyl		○ WHITE	

* Others available on request. MOQ may apply.

** Fire, smoke & acoustic test data available on request.

Standard Operational Procedure > self-adhesive, intumescent products

All intumescent seals are fabricated with a film carrier, coated on both sides with a high shear, acrylic adhesive. One side is applied to the seal's PVC carrier, the other comes with a protective silicone liner tape which is peeled away prior to fitting the seal.

PREPARATION

Machining

The pre-prepared groove should be slightly wider than the actual seal. For a standard 15mm X 4mm intumescent seal STS recommend a groove width of 15.5mm. This additional width provides sufficient tolerance for timber shrinkage, application of surface finishes, machining anomalies, etc.

Post-machining

All surfaces contacting the intumescent seal should be sound, clean, dry and dust-free.

NOTE

Proprietary cleaners may leave residues that have a detrimental effect on the self-adhesive tape.

FITTING

Cut the seal to size BEFORE removal of the protective tape.

Peel off the protective tape and ensure the adhesive does not contact fingers, other surfaces, other contaminants, etc.

Place the seal directly into the pre-prepared groove.

DO NOT REMOVE THE SEAL ONCE FITTED!

NOTE

The adhesive is **PRESSURE-SENSITIVE**. It requires firm, overall pressure to achieve a sound bond to the contact area. Maintaining the pressure for just a few seconds will greatly improve the bonding process.

If the frame has been primed, lacquered or painted, the surface **MUST** be COMPLETELY dry before the seal is fitted.

POST-FIT

Bond strength increases with time however, it is adversely affected by temperature, moisture and the nature of the bonding surface. Once installed, the exposed surface of the seal may, if required, be painted over.

Do not paint the flexible elements (fins/brushes) of combined acoustic, smoke and fire seals.

GENERAL

If surface materials and/or the self-adhesive tape are too cold the adhesive will harden, severely affecting the bonding process.

Apply the seals in temperatures above 10°C; ideally between 20°C - 30°C.

Properly applied, the seal will withstand extremes of cold and heat.

When storing, avoid extreme changes in temperature.

Condensation and humidity also have an adverse effect on the bonding process.

**THE ADHESIVE PROPERTIES OF THE PRODUCT WILL BE
SERIOUSLY REDUCED OR COMPLETELY NEGATED
IF THE SEAL IS REMOVED AFTER FITTING.**



The adhesive is "pressure-sensitive".



All surfaces should be sound, clean, dry and dust-free.



Allow as long as possible.



The adhesive is sensitive to excessive temperatures.



Condensation and humidity are detrimental to the adhesive.