

**SHERWIN  
WILLIAMS®**

**FIRETEX® INTUMESCENT  
SUPPORT REQUEST FORM**



**FROM SPEC TO PROTECT**



## **FIRETEX® INTUMESCENT SUPPORT REQUEST FORM**

Please complete the following 'FIRETEX® intumescent support request form' as fully as possible providing all supporting documents where requested. We have provided guidance where appropriate to help you. Some of the requirements have been around for a while, some have been recently changed and various options will influence the limiting temperatures and DFTs. We therefore require the correct information to ensure we are providing you with accurate coating thicknesses on every project for each and every designer, main contractor and applicator. The information you provide in this form will help us to provide the correct DFT for each member and to determine the correct product type/specification dependent on project locations /localised environments etc (which may differ throughout the building). This information is required whether you are using our FDE software (which will automatically adjust the limiting temperatures and DFTs accordingly) or for our Fire Engineering Team to provide you with the correct and most cost effective submittal/quotation. Items marked \* are essential for us to progress your request

Not providing the correct or enough information could lead to the wrong DFTs/products, which will mean the project could be either under or over subscribed

### **FOR FURTHER INFORMATION PLEASE CONTACT:**

#### **Fire Engineering Team**

Email: feet.support@sherwin.com

Tel: 01204 556423

#### **Technical Customer Services Team**

Email: technicale@sherwin.com

Tel: 01204 556457

#### **Privacy statement**

Your data will be processed in accordance with the Sherwin-Williams Privacy Policy, a copy of which can be found here:

<https://privacy.sherwin-williams.com/privacy-policy>



## CONTACT DETAILS

**Company name**

**Contact name**

**Position held**

**Email**

**Tel**

**Project name and reference (if applicable)**

**Site location - city/country**

## SPECIFICATION OPTIONS

### Fire resistance period(s) \*

Fire rating 30 to 120 mins

(Clarify areas if multiple)

### BS EN ISO 12944:2017

Building Environment(s) in use/service  
[approximate ETAG 18-2 in parenthesis]

(Clarify areas)

C1 V Low [Z2] Internal dry heated with  
clean atmosphere

C2 Low [Z1] Internal unheated where  
condensation may occur

C3 Med [Y (when external but under  
cover) or X] External Urban

C4 High [X] Chemical or External  
Industrial, moderate salinity Coastal

C5 V High [N/A] External High, high  
salinity Coastal

### BS EN ISO 12944:2017

Building Environment(s) in use/service  
[approximate ETAG 18-2 in parenthesis]

(Clarify multiple areas if required)

Additional 'micro-climate' i.e. Louvered car park/  
swimming pool/plant room

If ticked

(Clarify areas)

Structure exposure period (to the elements) during  
construction phase based on C3/C4 exposure

Up to 6 months

Up to 12 months

12 to 18 months

Note: If the in-use/construction phase environments  
are not provided or known the default will be for  
Sherwin-Williams to assume a C1 dry heated and  
clean atmosphere

Structure exposure period (to the elements) during  
construction phase, steel exposed to C5 during  
construction phase?

If ticked,

(Clarify areas)

## SPECIFICATION AND STEEL DESIGN OPTIONS

### Intumescent testing/assessment method options \*

(Select only ONE Standard)

#### BS476

British Standard still the most common for UK projects

#### EN13381

European Standard has a slightly more conservative approach giving higher DFTs

Note: Most UK projects are still specified utilising BS476 as there is no confirmed date to transfer over to EN13381 for the UK although if a UK project requires a CE mark specification (for the fire protection) it must be based upon EN13381 DFTs/data

### Design Standard \*

The Standard used by the project 'Design Team' to determine the steel member sizes.

(Select only ONE Standard)

#### BS5950

Although now withdrawn this remains a legitimate Standard, withdrawal means it has not been updated for some time and will no longer be maintained. We still receive new projects designed to this design code, for Office type use this assumes limiting temperatures of 620°C for beams and 550°C for columns

#### EN1993/4

Eurocode steel design is now more common with limiting temperatures of 576°C for beams and 563°C for columns for office type use

Other - (e.g. AISC)

(Specify)

The lower the limiting temperature the higher the DFT required to stop the steel reaching this temperature in a fire, for the required fire rating. Limiting temperatures are also referred to as 'critical' or 'failure' temperatures

### Cellular beams

Are there cellular beams with service penetration holes? If so you will need to provide information for these that identifies opening size/shapes/positions etc along with any specific design temperatures that may have been provided by the design engineers. Drawings may be required to identify this information

If ticked,

(Clarify areas)

Please insert relevant Cellular Beam drawing references where appropriate

### Fire strategy

Is there a project 'Fire Strategy' document provided by a Fire Design Consultant? If so please submit this important document along with any relevant strategy drawings to us, we may ask further questions upon receipt

If ticked,

(Clarify areas)

Please insert relevant Fire Strategy report/document references where appropriate

## STEEL DESIGN OPTIONS

### Occupancy type(s)/usage options \*

Although it may seem obvious this information should be provided by the 'Design Team' as the steel designer could have used any Occupancy type

(Clarify areas if multiple)

#### Office

Higher limiting temperatures (lower DFT), based on live load reduction vs dead load in fire

#### Storage

Lower limiting temperatures (higher DFT) based on no live load reduction vs dead load in fire

#### Other

Middle range limiting temperatures, based on the reduction of live load vs dead load in fire

Please insert relevant drawing references/information to identify multiple Occupancy where appropriate

### Occupancy type(s)/usage options \*

For information, these are also split into the following four categories for section type and limiting temperatures

#### Composite 3S Beam

Composite floor design (with shear studs), 3-Sided beam (supports a concrete slab)

#### NC 3S Beam

Non-Composite floor design (as above but generally NO shear studs, also see definition below)

#### I Section Column/4S Beam

4-Sided I/H Columns and 4-Sided beams (NO concrete slab)

#### Hollow Columns

4-Sided Hollow Columns

Note: 3-Sided beam is for use of both open I/H section and closed Hollow section beam types

Note: If the above design code and occupancy type is not provided it could lead to conservatively high DFTs being provided which would result in higher cost to the project. Some of the above options can have a significant effect on the limiting temperatures and DFTs and therefore must be carefully taken into consideration



## SPECIFICATION OPTIONS

### Floor design(s)

#### Composite

Where the steel and concrete slab are connected and designed dependent on each other generally with shear studs connecting the two and often with use of a metal decking profile

#### Non-composite

Where the concrete slab is independent of the steel often with the absence of shear studs and use of precast slabs/planks

#### Both

This is not common but does happen

Please insert relevant drawing references where appropriate to identify when 'Both' design types are used

### Decking Type(s)

#### Trapezoidal

This has a wider 'open trough' profile leaving a larger gap on the top flange of the beam which requires attention, either increasing the FIRETEX DFT or filling (fire stopping) the trough voids

#### Re-entrant / Dovetail

Closer profile with smaller gap on the top flange which doesn't require any further action nor increased DFT

#### Both

This is not common but does happen

Please insert relevant drawing references where appropriate to identify when 'Both' deck types are used

### Trapezoidal void filling

For 30-90 mins fire rating the default is to increase the FIRETEX DFT to the 3-sided beam accounting for the exposed gap on the top flange. However, there is now the option to also achieve this on many 120 mins sections, this is specific to our FIRETEX range using our Third-Party Verified FDE software (void filling verified independently). Other factors such as compartmentation and acoustic requirements may also have to be taken into consideration with void filling as these factors may require the voids to be filled irrespective. It is your choice how we handle this

#### Filled voids

(will then require fire stopping  
- not in SW supply)

#### Un-filled voids

(where possible and acceptable)

**Note: If the floor design is Non-Composite combined with a Trapezoidal deck profile the voids MUST be filled**

**If the above information is not provided or known for UK projects the default will be for Sherwin-Williams to assume a composite floor design with a re-entrant/dovetail decking profile**

## ADDITIONAL INFORMATION

### Project timelines

Finally, we will endeavor to meet project deadlines where possible where a date is provided (please do not mark “ASAP”, we cannot aim to prioritise without a date provided), and if there are any further comments that are relevant please insert in the box below, thank you. Please Note, Failure to complete the form in full and/or the provision of incorrect data may result in delays to the provision of a DFT Report

### Project return date requested

### Any additional relevant project information

Please be aware when submitting your project enquiry information, we do NOT accept web-based links to portals/storage facilities of a general nature, these enquiries will be rejected. It is your responsibility to locate the appropriate information/drawings in order for us to carry out a material take-off (MTO) based upon drawings

Drawings required for such an MTO need to be the structural steelwork general arrangement plans, sections and elevations along with any appropriate general steelwork details and any relevant architectural plans highlighting the fire resistance requirements. Other document such as Specifications as well as any appropriate “fire strategy” documents/reports etc are welcomed. We thank you for helping us to identify your project requirements accurately

Sherwin-Williams Protective & Marine Coatings (SW) will base its DFT recommendations on the information provided by you so please ensure that this form is completed as fully as possible and provide all supporting documents requested. SW cannot accept any liability arising out of or in connection with any errors or omissions in the information you submit

### Date form issued

### Issue number

### RETURN FIRETEX® INTUMESCENT SUPPORT REQUEST FORM TO:

**Fire Engineering Team**

Email: [feet.support@sherwin.com](mailto:feet.support@sherwin.com)