

Intumescent DFT process for draughtsmen / designers

Is the member a cellular beam?

Send data to Paint Manufacturer for analysis. Details required are:
Section Size/s (both if top/btm tees differ)
Grade of Steel
Span (length)
Cell Diameter
Cell Spacing (ctr/clr)
Top/Btm tee depths if not equal

Note
Any hole in the web that is not a bolt fixing hole means the beam is effectively cellular

Use Design Estimator Software to determine fire protection

Select:
Section Type
Section Size

Note - info required for RRO / O&M Manual:
Product Certfire Document
Application Records (AWSL)

Is the section carrying a concrete floor?

Select "Exposure" as 3 sided

Is the member "partially" exposed to fire?

Select "Exposure" as 4 sided (i.e. a Column)

Select "Exposure" as Partial (3S/4S Column) then set "Perimeter" (i.e. the Girth) - the length of the exposed perimeter - in METRES

What is the floor construction type?

Trapezoidal metal deck NON-COMPOSITE

Trapezoidal metal deck COMPOSITE

Re-Entrant metal deck

Pre Cast Slab

Deck voids must be filled, do NOT tick TCF box

Tick Trapezoidal Composite Floor Unfilled Voids (TCF) box

No need to tick TCF box

No need to tick TCF box

Select member usage:
Beam / Column / Bracing /
Secondary (ie. ties/door posts etc)

If paint volume required select section quantities

What is the FIRE RATING?

All Periods. 30/45/60/75/90/105/120 minutes

Select Product

Select Topcoat if required: Dry Internal / External
Other environments consult Paint Manufacturer



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