

# TIMBER FRAMED TF/M MEDIUM DUTY

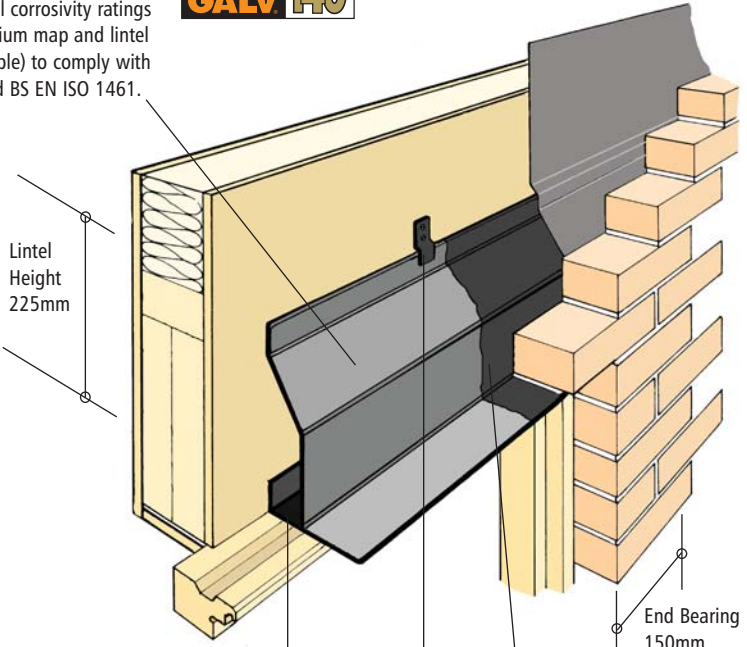
Lintels are manufactured from minimum 4mm thick structural steel plate with a minimum yield strength of 275N/mm<sup>2</sup>.

All lintels are post galvanised to a minimum zinc thickness dictated by building usage and geographical corrosivity ratings (see millennium map and lintel longevity table) to comply with BS 7543 and BS EN ISO 1461.

**DURA GALV** 70

**DURA GALV** 100

**DURA GALV** 140



Lintel Height 225mm

End Bearing 150mm

**DUPLEX COATING**

Integral steel compression flange for flush fitting to soffit

Standard fixing clips at 600mm centres maximum

Duplex paint system over post galvanised lintel, dictated by building usage and geographical corrosivity ratings (see millennium map and lintel longevity table).

PRODUCTS AND INFORMATION CAN BE AMENDED WITHOUT PRIOR CONSENT TO MAINTAIN THE COMPANY POLICY OF CONTINUED IMPROVEMENT

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SECTION 4 PAGE 9

# TIMBER FRAMED

## TF/M MEDIUM DUTY

### GENERAL TECHNICAL DETAIL, COMPOSITION AND MANUFACTURE

#### GENERAL

**Introduction.** The SUPERLINTEL TF/M range of lintels, for Timber Framed applications, have a number of outstanding features which contribute to performance and durability characteristics which exceed BSEN 845-2:2003 recommendations.

These Features include:-

- 4mm thick structural steel plate used throughout for rigidity, long life durability and dimensional consistency.
- Optimum protection against corrosion; Lintels are hot-dip galvanised after manufacture.
- End bearings of 150mm as standard for high structural stability.

*Non-standard end bearings can be supplied to order.*

#### COMPOSITION AND MANUFACTURE

Lintels are manufactured from minimum 4mm thick steel structural plate with a minimum yield strength of 275N/mm<sup>2</sup>.

All lintels are Hot Dip Galvanised after manufacture, tested in compliance with BS EN ISO 1461 for zinc coatings of steel through the controlled inhouse galvanising "DURAGALV" process. Coating thicknesses vary in accordance with the requirements of BS 7543 and local corrosion categories levels.

For "DURAGALV" coatings above 70 microns, I.E: Duragalv 100 and 140, additional controlled processes are employed to ensure the heavier coatings adhere to the "minimum 4mm" specially selected steel plate required to accept these levels of heavy coatings.

To achieve protection for all five corrosion category areas, a further "DUPLEX COATING" paint system is applied to lintels, after galvanising, in the most severe areas of corrosion levels.

### LOADING, SECTIONAL DETAIL / PROPERTIES

#### PERFORMANCE

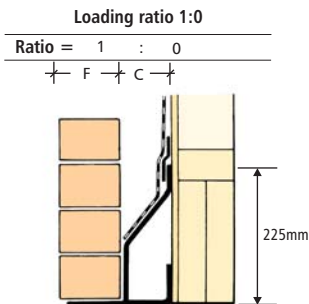
**Mechanics.** Safe working loads for the TF/M range of lintels are established by testing based upon the non-destructive test procedures for steel lintels as recommended in BSEN 845-2:2003

Each load is the **total** allowable equivalent uniformly distributed load (UDL) as described in BS 5977 : Pt. 1 :

#### REQUIRED FOR SPECIFYING

F - Facing leaf width

C - Cavity width



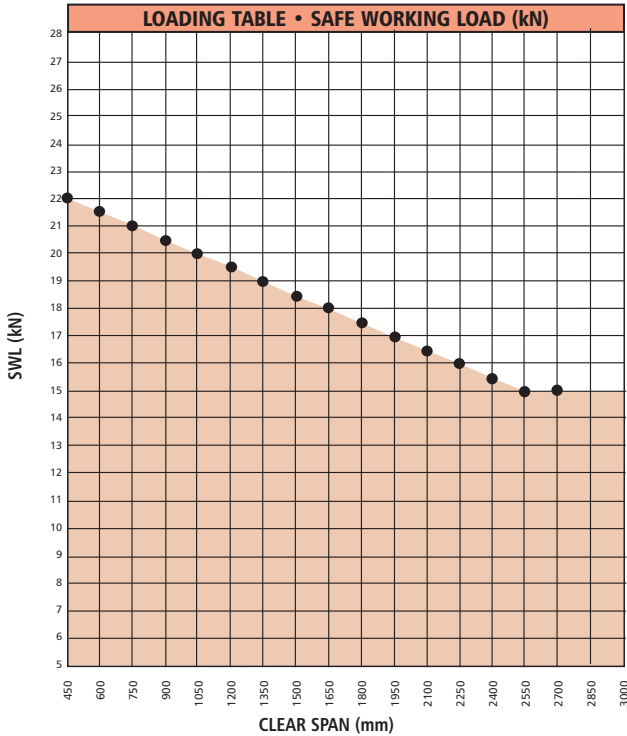
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# TIMBER FRAMED

## TF/M MEDIUM DUTY

### LOADING TABLES AND SECTIONAL PROPERTIES

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SWL - 1:0 LOAD RATIO			
CLEAR SPAN	(min) END BEARING	OVERALL LENGTH	SWL (kN)
450	150	750	22
600	150	900	21.5
750	150	1050	21
900	150	1200	20.5
1050	150	1350	20
1200	150	1500	19.5
1350	150	1650	19
1500	150	1800	18.5
1650	150	1950	18
1800	150	2100	17.5
1950	150	2250	17
2100	150	2400	16.5
2250	150	2550	16
2400	150	2700	15.5
2550	150	2850	15
2700	150	3150	15

### SECTIONAL PROPERTIES

EXAMPLE OF SECTIONAL PROPERTIES						
SECTION REFERENCE	FACING LEAF WIDTH (F)	CAVITY WIDTH (C)	WALL WIDTH	LINTEL WEIGHT/M kg	Ixx cm <sup>4</sup>	Zxx cm <sup>3</sup>
TF/M/102/50	102	50	152	13.10	851	54
TF/M/102/75	102	75	177	14.21	915	57

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SECTION **4** PAGE **11**

# TIMBER FRAMED

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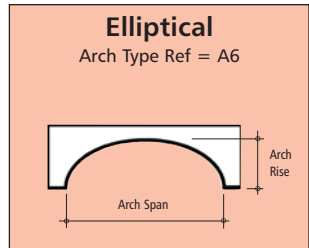
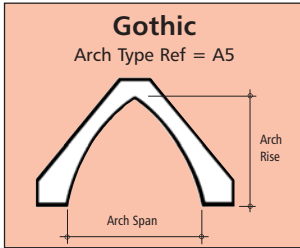
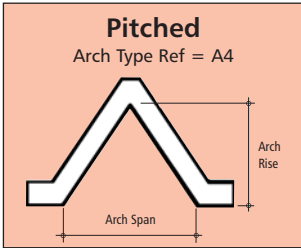
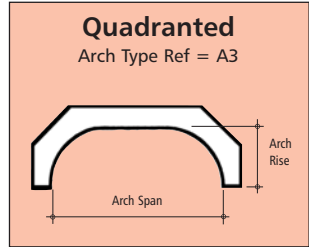
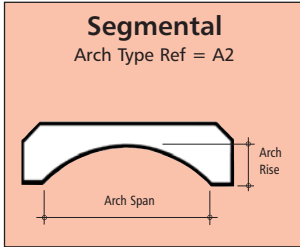
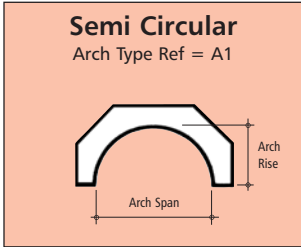
### ARCHED LINTEL TYPES

Arched soffit Superlintels can be designed to suit any of the Timber Framed lintel sections. there are 6 standard arch profiles shown, each providing full support to masonry arch shapes as drawn.

Steel flange thicknesses to lintel soffits are allowed for within a design to ensure continuity of brick coursing to outer leaf, in particular spring points at each end of lintel spans.

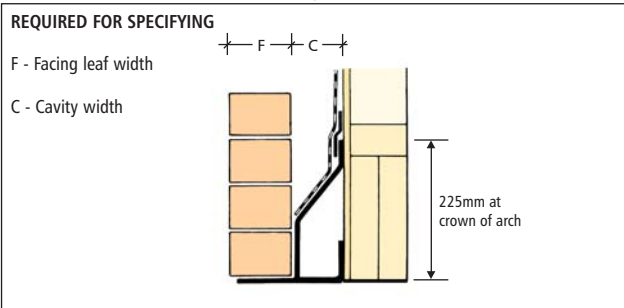
Where overall lintel height exceeds 450mm, webs are cropped to allow wall ties to be continued between both outer and inner leaf.

As with flat soffit Superlintels, the lintel section is dictated by wall construction, load and span. Arched forms may dictate minor changes to lintel section as shown. Arched lintels may require a separate damp proof course membrane, supplied by others.



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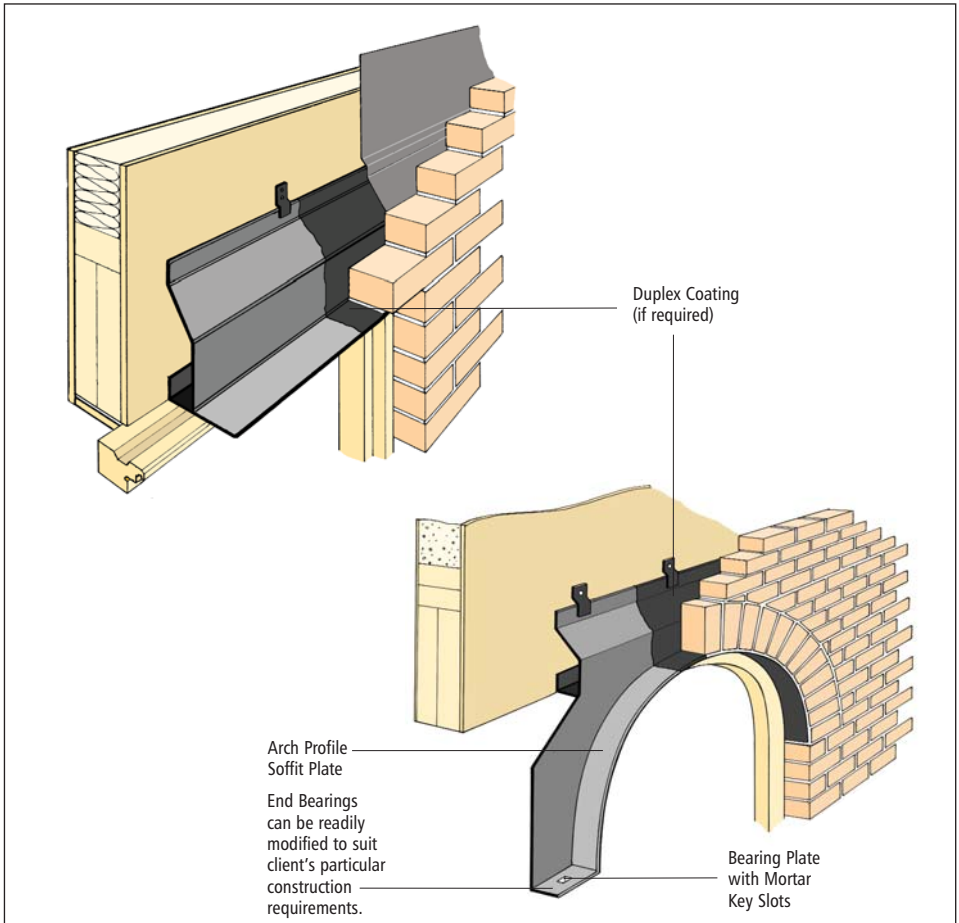
### LOADING RATIOS, SECTIONAL DETAILS OF ARCHES



# TIMBER FRAMED SWHB/M MEDIUM DUTY

## TYPICAL INSTALLATION/CONSTRUCTION DETAILS

PRODUCTS AND INFORMATION CAN BE AMENDED WITHOUT PRIOR CONSENT TO MAINTAIN THE COMPANY POLICY OF CONTINUED IMPROVEMENT



### ACCESSORY SUFFIXES

To specify add the following suffixes to the progressional specification code

- |  |   |
|--|---|
| <p><b>G</b> Stepped outer flange (20 mm step unless stated).</p> <p><b>JAF</b> Moulded arch former.</p> <p><b>JSF</b> Superarch steel arch former.</p> <p><b>M</b> Phosphate etch finish to lintel soffit.</p> | <p><b>SS</b> Stainless steel lintel, (Grade 316)<br/>Note: Finish coating suffix code i.e. DG140 (Duragalv 140) is not required when specifying stainless steel.</p> <p><b>U</b> Metal lathing plaster key.</p> |
|--|---|

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SECTION 4 PAGE 13

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### FINISHES

#### How to use the Lintel Longevity Table

1. Locate your site on the Millennium map (E.g. Leeds - West Yorkshire)
2. Match the corrosion category square colour to the key (Leeds = 3 light blue)
3. From the left hand column clarify required Construction Type / Minimum

- life (High quality Refurbishment = 60 years)
4. Read along from 60 years to category 3 (Minimum coating to be specified to comply with standards = Duragalv 100)
  5. At the end of the specifying code DG100 needs to be added.

#### Coating suffix specifying codes:

- Duragalv70 = DG70  
 Duragalv100 = DG100  
 Duragalv140 = DG140  
 Duragalv140 +  
 Duplex Coating = DG140DC

### Fabricated mild steel lintel, Hot-Dip Galvanised after manufacture = LINTEL LONGEVITY TABLE

Millennium Map corrosion category 1/2/3/4/5, and the minimum coatings to be specified in those areas, to comply with BS 7543 and BS EN 845-2:2003.

See Millennium Map for your site location or visit [www.hdg.org.uk/map/index.htm](http://www.hdg.org.uk/map/index.htm)

	1	2	3	4	5
<b>CONSTRUCTION TYPE / MIN LIFE</b> Retail, Industrial and General Refurb. Minimum Life to Comply With BS 7543 <b>= 30 YEARS</b>	DURA GALV 70	DURA GALV 70	DURA GALV 70	DURA GALV 70	DURA GALV 100
<b>CONSTRUCTION TYPE / MIN LIFE</b> Health, Education, New Housing High Quality Refurb. Minimum Life to Comply With BS 7543 <b>= 60 YEARS</b>	DURA GALV 70	DURA GALV 70	DURA GALV 100	DURA GALV 140	DURA GALV 140 DUPLEX COATING
<b>CONSTRUCTION TYPE / MIN LIFE</b> Civic and Other High Quality Buildings. Minimum Life to Comply With BS7543 <b>= 120 YEARS</b>	DURA GALV 70	DURA GALV 140	DURA GALV 140 DUPLEX COATING	DURA GALV 140 DUPLEX COATING	DURA GALV 140 DUPLEX COATING

Any lintel profile can be created by our in-house design team with spans ranging from 600mm and rises to suit. Contact our advice team on [techadvice@jonesofoswestry.com](mailto:techadvice@jonesofoswestry.com) for online support and free design service.

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### HOW TO SPECIFY

PROGRESSIONAL EXAMPLE FOR SPECIFYING									
Ref DESCRIPTION	MAIN PRODUCT CODE	LOADING	FACING LEAF WIDTH (F)	CAVITY WIDTH (C)	SPAN	ARCH TYPE	ARCH RISE	ACCESSORY SUFFIX	FINISHED COATING
DETAIL	(TIMBER FRAMED)	(MEDIUM)	(102mm)	(75mm)	(2100mm)	(A2 = SEGMENTAL)	(450mm)	(METAL LATHING KEY)	(SEE LONGEVITY TABLE)
PRODUCT Ref	TF	M	102	75	2100	A2	450	U	DG100
THE ABOVE EQUALS FULL SPECIFYING CODE OF = TF/M/102/75/2100/A2/450/U/DG100									