

# Arch Lintels

## YOU SPECIFY - WE DESIGN!

We can manufacture a virtually unlimited variety of arched lintels...

### MATERIALS

Our Arch Lintels are available in the same wide range of steel types as our other lintels. Our steels are listed on page 72, or see our separate blue catalogue for details of our range of arch lintels in High Strength Stainless Steel!

### FULL HEIGHT BACK PLATE

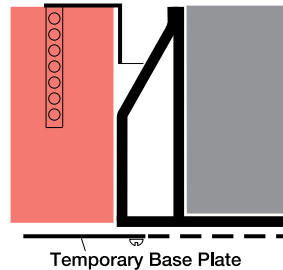
All our arch lintels include a full height square back plate, this both provides an integral cavity tray, and also enables the outer and inner leaves of cavity wall to be connected together with brick-ties fastened to the lintel. During manufacture we allow for flexible brick ties to be installed at 450mm intervals, both horizontally and vertically. With a separate cavity tray this is not possible!! The elliptical arch lintel drawing below shows this feature.

## LINTRAY OPTION

Lintray® stop ends may be added to our arch lintels as an option, see page 6 for details. All the illustrations below show arch lintels with integral stop ends.

## FEATURE BRICK OPTION

Our standard Feature Brick Option (page 9) can also be added to arch lintels. Since most modern arches are architectural features, feature brick is a popular option. The Feature Brick Option is available for medium and heavy duty type arch lintels.



## HOW TO ORDER

### 1. Decide your material

See page 72 for details. Lintray® Arches require hot dip galvanised or stainless steel.. For Arches in SS370 or LDX2101® stainless steel, use our blue catalogue; we have different designs for high strength stainless steels.

### 2. Decide your required DUTY & GAUGE

Using the table to the right. If you're unsure, our technical department can usually assist.

### 3. Convey your required dimensions

Tell us what type of arch you require, and using the diagrams below, the dimensions H, S etc. Tell us your wall construction as well, e.g. 100/125/140, and if feature brick is required

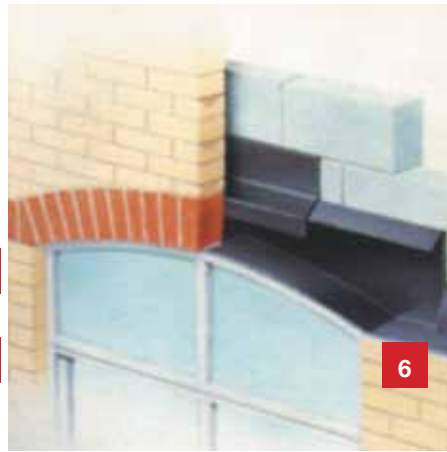
### 4. Place Your Order

Either fax or email your order or enquiry with the above details directly to us, or alternatively, use the order form in our blue catalogue.

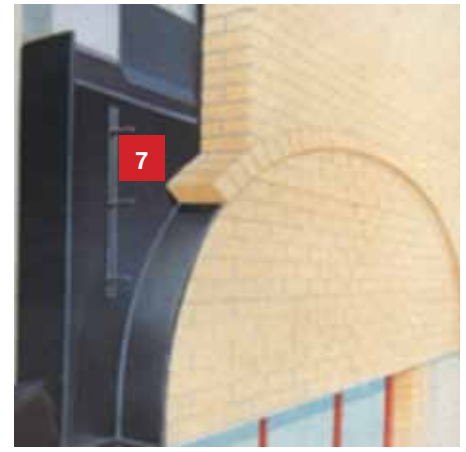
## ARCH EXAMPLES - Many other types also available: 3 centre arches, 5 centre arches, ARCHED CORNERS & MORE!



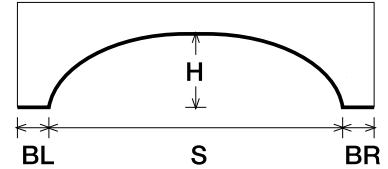
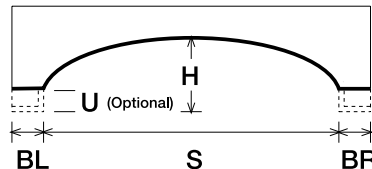
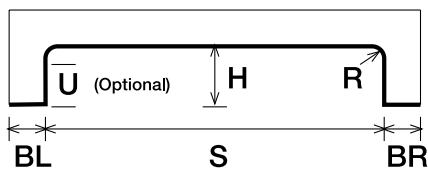
ARCHED CORNER LINTEL



SEGMENTAL ARCH LINTEL



ELLIPTICAL ARCH LINTEL



### Arch Lintel Features:

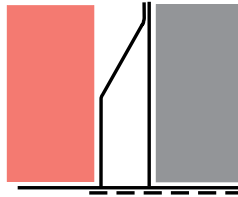
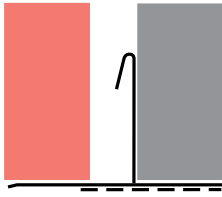
1. All hollow section arches are fully insulated 6
2. S275 structural steel plate
3. Option to hot dip galvanize after manufacture to 920 g/m<sup>2</sup>

4. High build self-etch primer provides a key for the optional bitumen coating
5. 100µm black bituminous paint, providing protection to BS 5493:1977
6. Optional Lintray® stop ends channel any cavity moisture to the outside
7. Full height square flat back enables brick ties connections whilst still providing a full height barrier to damp - no separate DPC required for cavity tray arches!

Normally delivered to site within one week of order!

# Arch Lintels

## DUTY RATINGS & ALLOWABLE LOADS



Standard duty arch			
Steel Gauge (mm):	<b>3.0</b>	<b>4.0</b>	<b>6.0</b>
lxx (cm):	1,111	1,459	2,122
Zxx (cm <sup>3</sup> ):	73.0	96.0	140.0
Permissible moment (kN.m):	8.2	11.2	17.2
Clear span up to	Permissible Total Load (kN)		
1500mm	<b>40</b>	<b>50</b>	<b>80</b>
2400mm	<b>30</b>	<b>40</b>	<b>55</b>
3600mm	<b>20</b>	<b>25</b>	<b>35</b>

Medium duty arch			
Steel Gauge (mm):	<b>3.0</b>	<b>4.0</b>	<b>6.0</b>
lxx (cm):	1,241	1,613	2,329
Zxx (cm <sup>3</sup> ):	87.0	113.0	164.0
Permissible moment (kN.m):	9.8	12.0	18.4
Clear span up to	Permissible Total Load (kN)		
1500mm	<b>50</b>	<b>70</b>	<b>90</b>
2400mm	<b>35</b>	<b>45</b>	<b>60</b>
3600mm	<b>25</b>	<b>30</b>	<b>45</b>
4800mm	<b>23</b>	<b>34</b>	
6000mm		<b>25</b>	

Heavy duty arch			
Steel Gauge (mm):	<b>3.0</b>	<b>4.0</b>	<b>6.0</b>
lxx (cm):	1,521	1,988	2,898
Zxx (cm <sup>3</sup> ):	107.0	140.0	204.0
Permissible moment (kN.m):	13.7	19.8	22.2
Clear span up to	Permissible Total Load (kN)		
1500mm	<b>70</b>	<b>80</b>	<b>100</b>
2400mm	<b>50</b>	<b>65</b>	<b>80</b>
3600mm	<b>30</b>	<b>45</b>	<b>60</b>
4800mm	<b>25</b>	<b>30</b>	<b>45</b>
6000mm	<b>18</b>	<b>30</b>	
7200mm		<b>20</b>	

NOTE: Cavity Wall Arch Lintels shown, but we can also make Arch Lintels for **Single Leaf** walls and **Outer Leaf + Cavity** applications!



GOthic ARCH LINTEL



SEMI-CIRCULAR ARCH LINTEL



APEX ARCH LINTEL

