



Incorporating



V2.1



Product spec >>>

> Series WL - Standard weather louvres

Louvres

Standard

Recommended for:

Exterior walls

Intake & return

Overview

Good rain protection

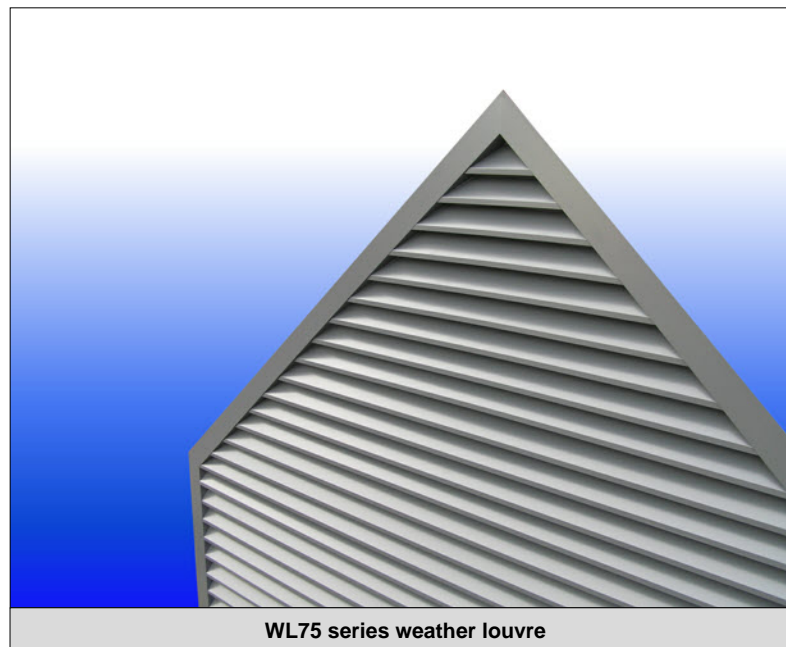
Flanged, recessed and reversed available

The HVC standard range of weather louvres are designed for any installation requiring external ventilation terminals with no additional features like particle removal or sound attenuation.

All standard weather louvres are designed to give good protection to the ingress of rain, however the single bank of blades does mean that in some conditions water can be forced through the louvre, making these unsuitable for use where rain ingress must be prevented.

See our Series HPL High Performance Louvres for ultra high rain protection.

Free area:	50%
WL38 Mass/M sq face area:	12 kg
WL50 Mass/M sq face area:	12.5 kg
WL75 Mass/M sq face area:	15 kg
WL100 Mass/M sq face area:	16 kg



Specifications

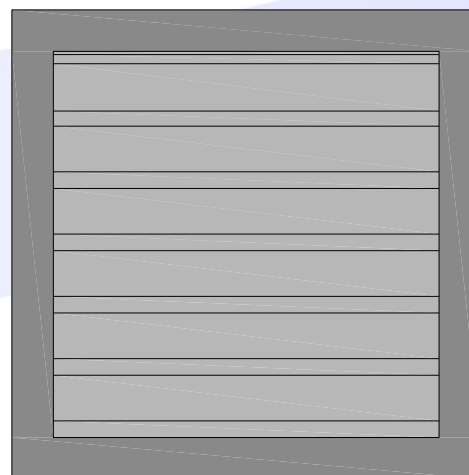
Materials:	Extruded aluminium throughout.
Construction:	Blades screwed into frame. WL38 & WL50 - Steel or aluminium inserts pressed into frame corners. WL75 & WL100 - Corners fully welded.
Frame:	Standard WL38 & WL50 - 30mm flat. Standard WL75 & WL100 - 50mm flat. Optional - See page 91.
Fixings:	Standard - None. Optional - Fixing holes or concealed lugs.
Sizes:	Minimum size single unit 100mm x 100mm. Maximum size single unit 2900mm x 2900mm. Hairline mullions between sections.
Finish:	Standard - Mill aluminium. Optional - Polyester powder coat to any RAL / BS colour.

Good rain protection

With a single bank of blades, standard weather louvres are not designed to provide total protection against rain ingress. In situations where this capability is not essential though, standard weather louvres are perfect.

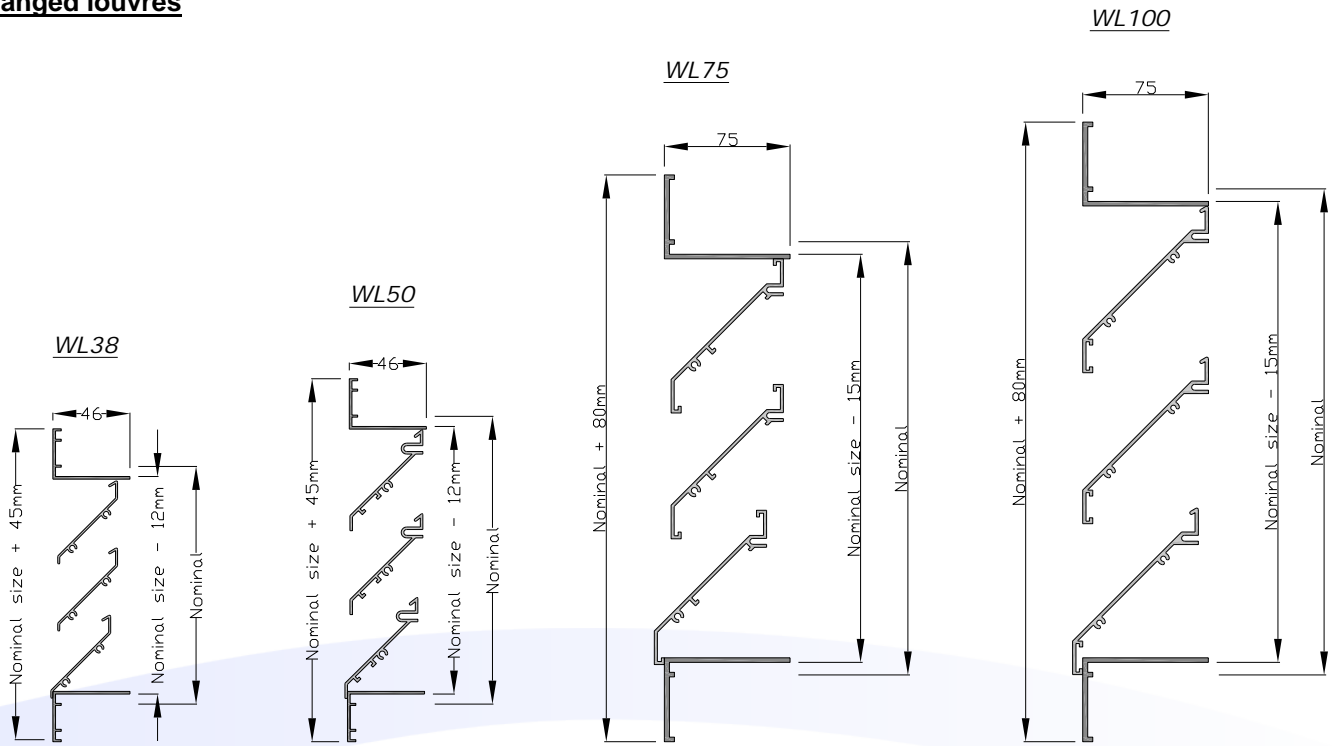
Frame options

Fitted as standard with a flanged frame to hide ragged hole edges, reversed, recessed or concealed louvres are also available to suit your application.

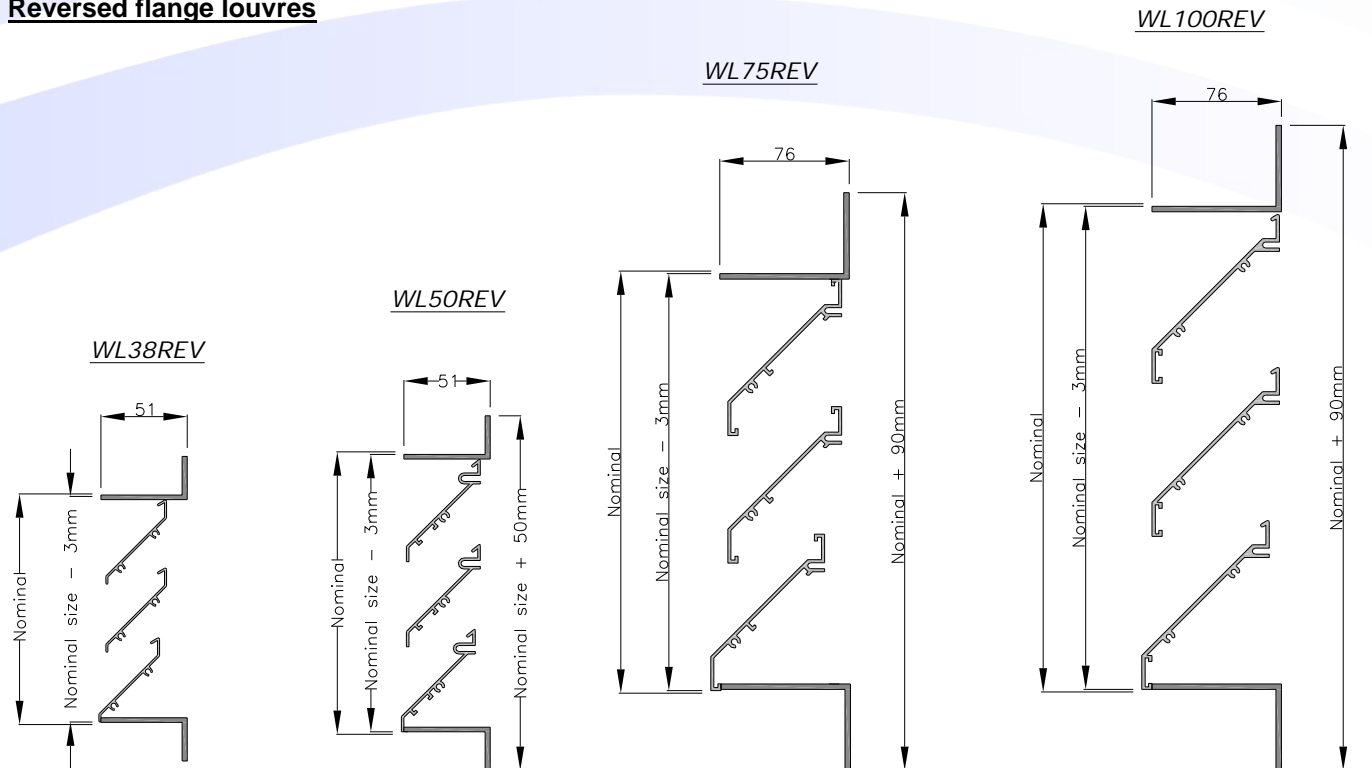


WL38 / WL50 / WL75 / WL100

Flanged louvres



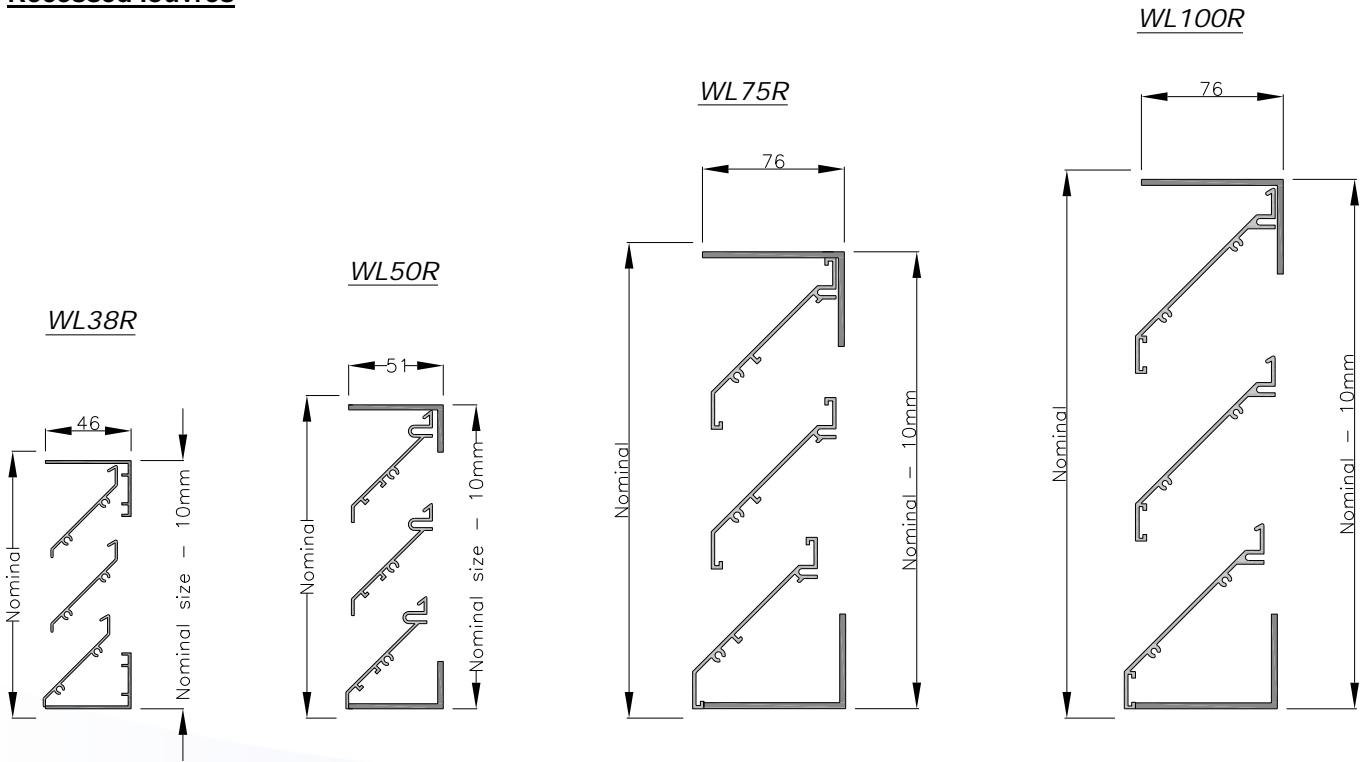
Reversed flange louvres



Louvres

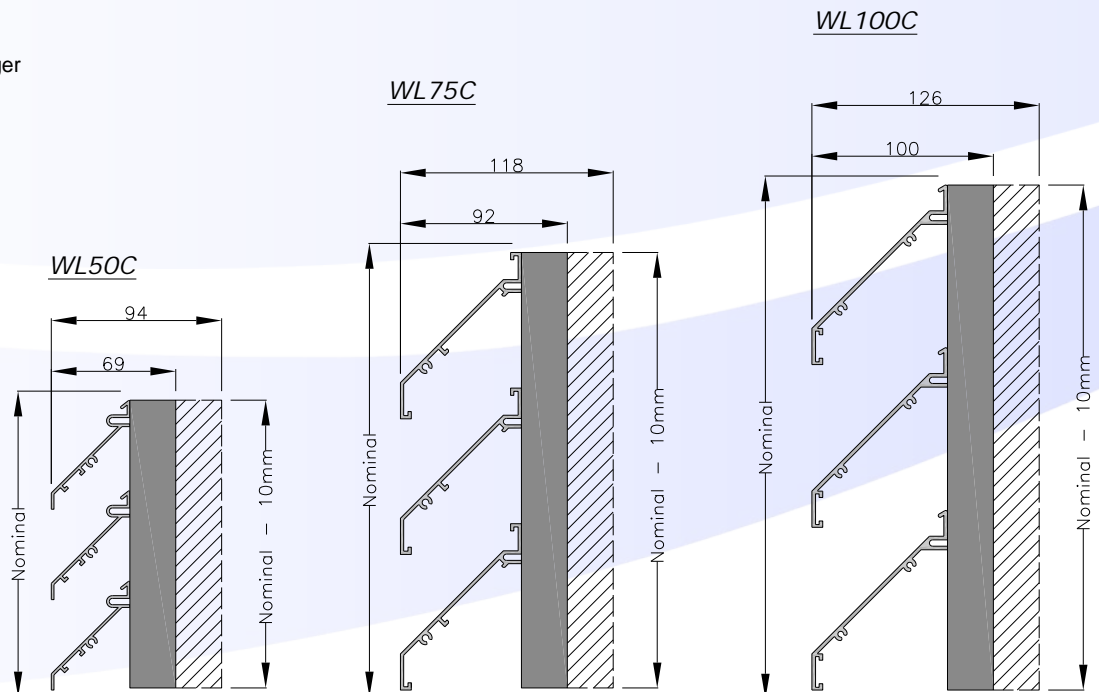
Standard range

Recessed louvres



Concealed louvres

Hatched areas denote the larger supports which would be used on units equal to or over 1500mm high.



Please note: In order to accommodate whole blades, blade pitch may vary from that stated with some louvre sizes.

WL38 / WL50 / WL75 / WL100**Louvre performance overview**

European louvre performance (EN13030 2002) takes into account both resistance to rain ingress and resistance to airflow coefficients.

Resistance to rain uses the letters A - D, with A being the most resistant and D being the least.

Loss coefficient uses the numbers 1 - 4, with number 1 having the least resistance and number 4 having the most.

In practice it would be impossible to achieve an A1 rating: Stopping all rain whilst presenting extremely low resistance to airflow is simply impossible with weather louvres.

Class	Rain resistance
A	100% - 99%
B	98.9% - 95%
C	94.9% - 80%
D	Below 80%

Class	Loss coefficient
1	>0.4
2	0.3 - 0.399
3	0.2 - 0.299
4	<0.199

HVC louvre performance

Standard louvres like this WL series cannot be expected to achieve Class A performance, a single bank of blades simply cannot do the job.

However, with the addition of an optional rain catchment tray behind the louvre, WL series louvres do achieve class B levels of rain protection.

See HPL High Performance Louvres if you need A rated rain protection.

When to switch louvre formats

We make four sizes of louvre for a reason. WL38s are perfect for small applications, but not rigid enough for larger sizes, WL50s are too big for small applications, yet not big enough for the largest, and WL75s are good for large louvres, whilst WL100s are needed for the very biggest.

WL38: < 1m²

WL50: 1m² - 1.5m²

WL75: > 1.5m²

WL100: > 4m²

These are only guidelines, if desired, we can make any size louvre from any blade profile.

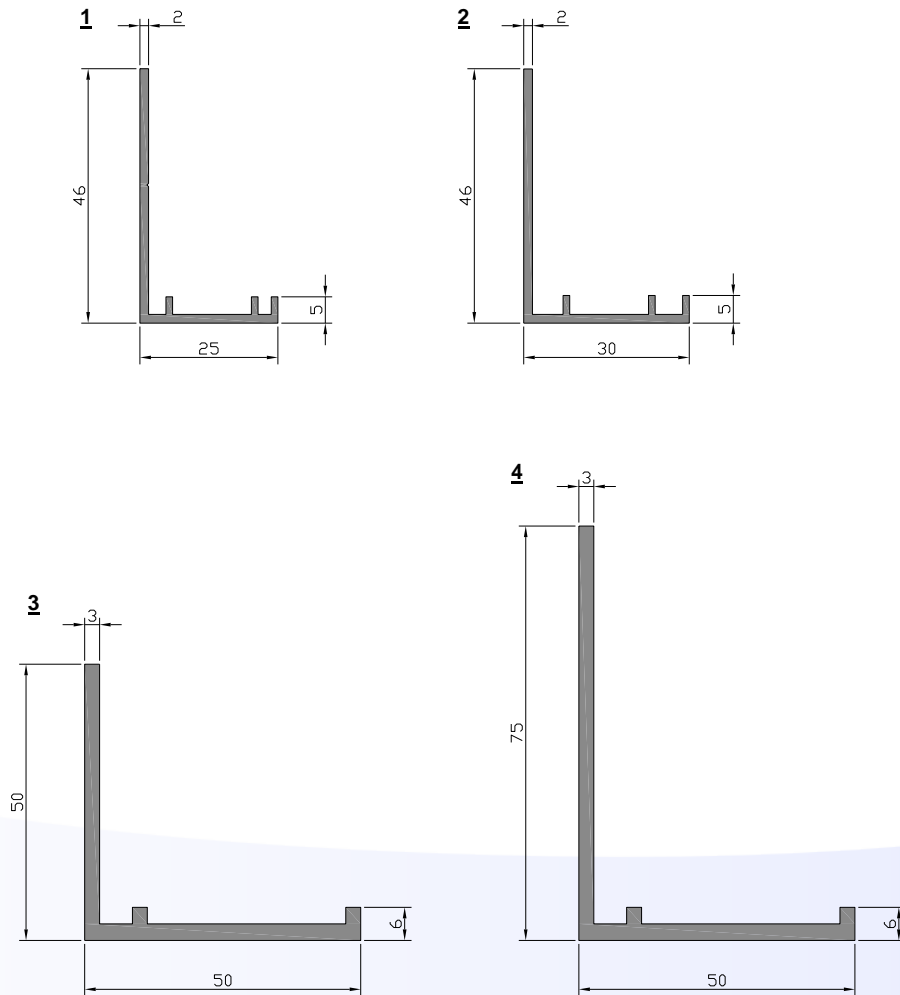
WL38s held in stock

WL38 louvres, in sizes ranging from 150mm square to 1000mm square are held in stock at nearly all times, ready for next day delivery (provided no extra work like painting is required).



Louvres

Frame types



Frame types		Louvre series								
		WL38	WL50	WL75	WL100	CL	AL	STL	HPL	DBL
1	25mm flat	✓	✓	IMP	IMP	X	ADD IMP	IMP	X	X
2	30mm flat	STD	STD	X	X	X	X	X	X	X
3	50mm flat	✓	✓	X	X	X	ADD	X	X	X
4	75mm x 50mm flat	✓	✓	STD	STD	X	X	STD	X	X
5	Recessed	✓	✓	✓	✓	X	STD	✓	X	X
6	Varies based on series	X	X	X	X	X	X	X	STD	STD
7	Varies based on size	X	X	X	X	STD	X	X	X	X

Please note:

- **ADD** = Additional frame to the standard recessed case.
- **IMP** = An imperial equivalent would be used, with a depth appropriate to it's use.
- Should you require a frame type not mentioned here, please get in touch as we can almost always suit any requirement.

Fitting options & ordering codes

Fixings

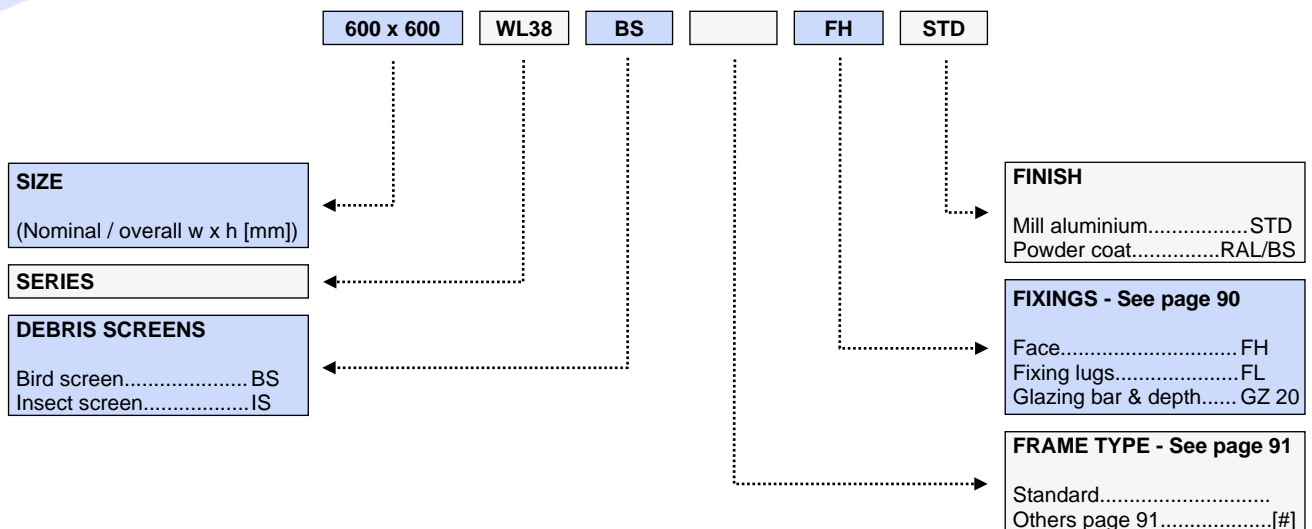
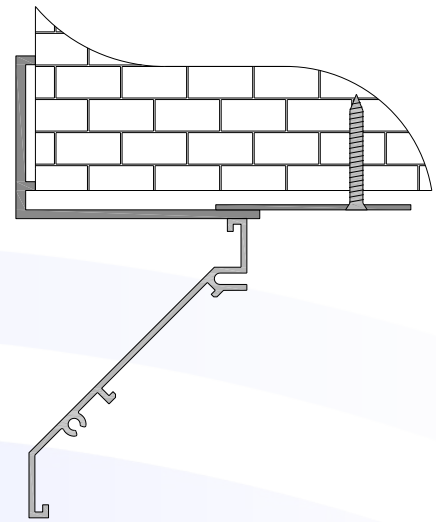
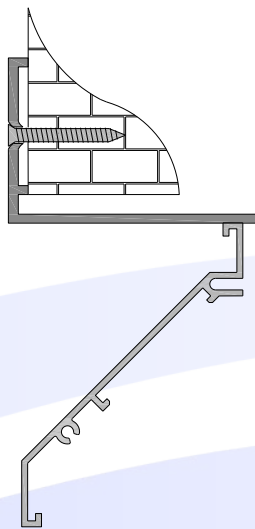
None: The majority of standard louvres are manufactured with no factory fitted fixings. This allows the frame to be drilled on site when the louvre is fitted.

Fixing holes: Your louvre would be supplied with pre-punched fixing holes in the visible frame, and philips type screws in the same finish as the louvre.

Glazing bar: Glazing bars can be fitted to all standard louvres to enable fitment into a window frame.

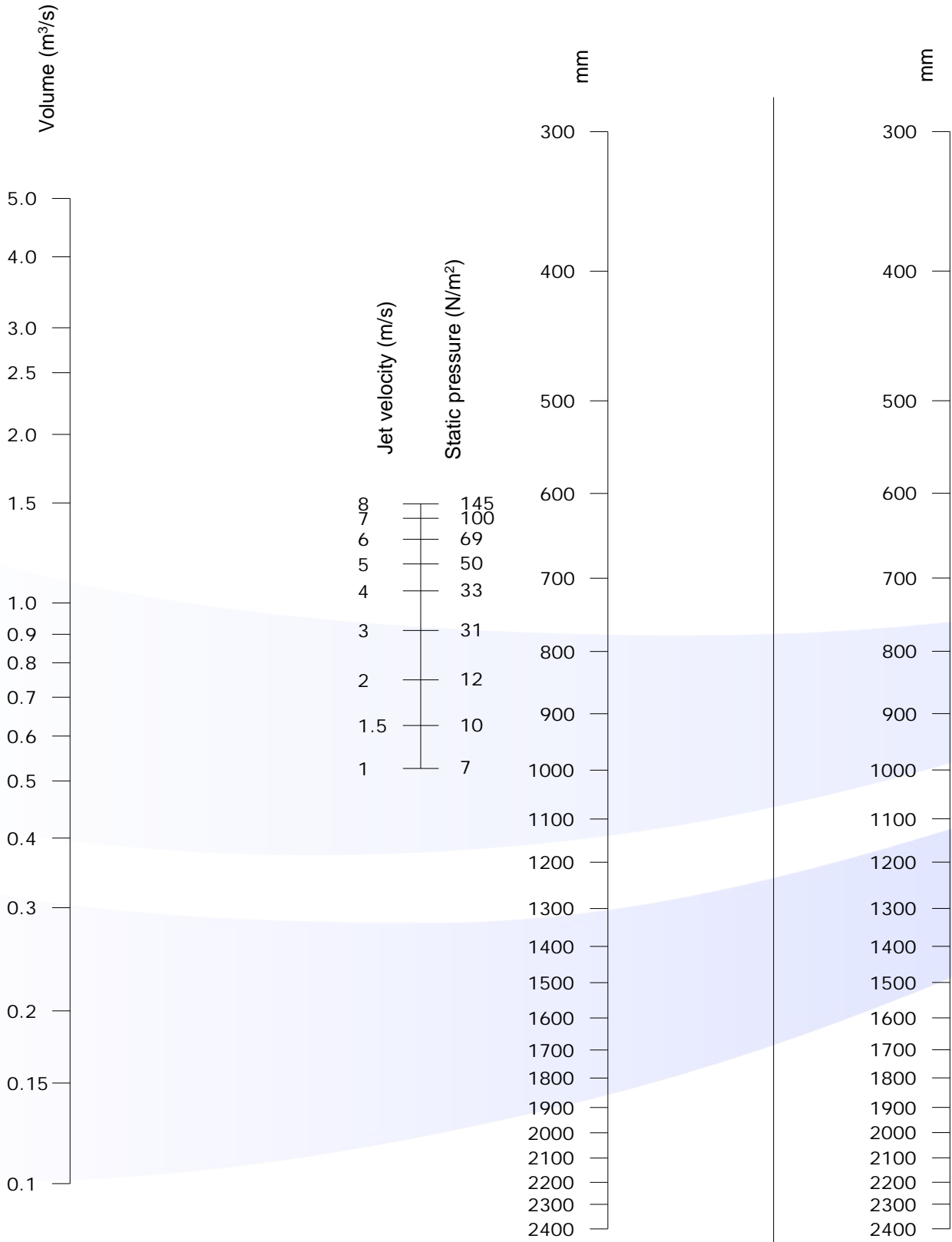
A second frame will be slid onto the rear of the regular frame, and then riveted to give the required bar depth.

Fixing lugs: Your louvre will be fitted with brackets protruding past the rear of the frame (as shown). These fully welded brackets are strong enough to support the louvre, and eliminate the need to drill the frame.



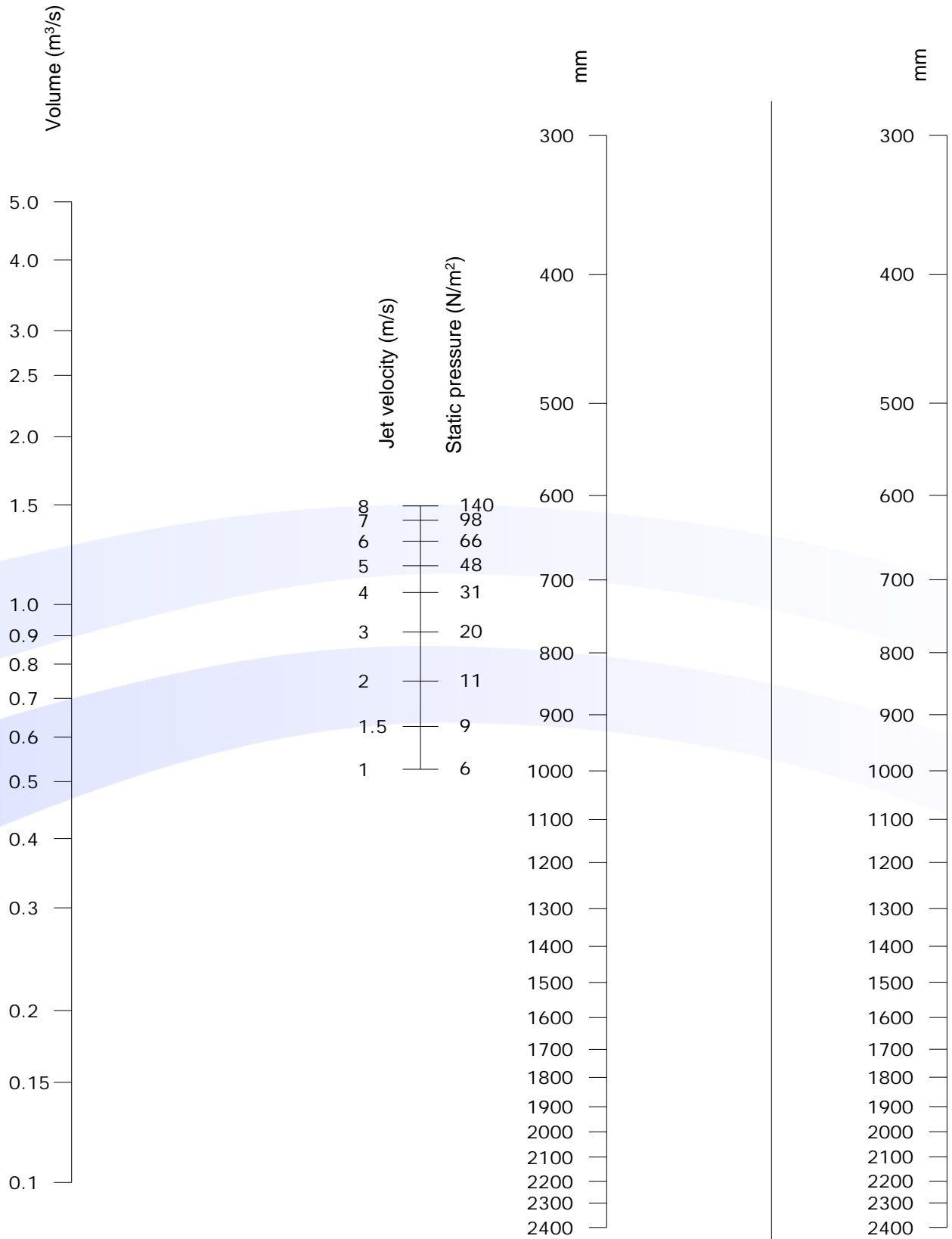
Selection data

WL38/50



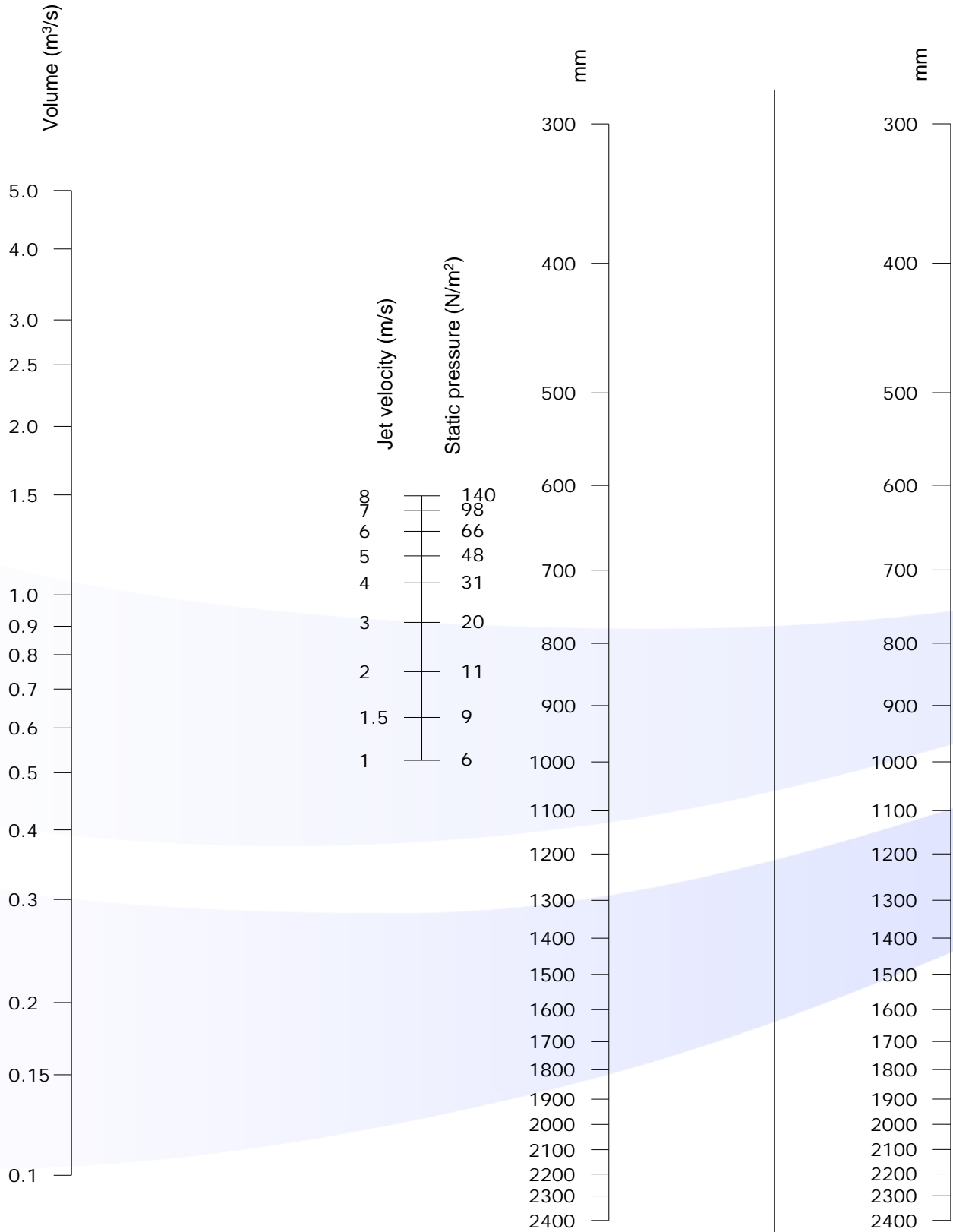
Selection data

WL75



Selection data

WL100





Supplies Ltd

Grilles & diffusers

Louvres

Fire / Fire smoke dampers

Volume control dampers



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