

Naco Standard Louvre Frame



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Introduction

152mm standard louvres have achieved a worldwide market acceptance where simple controlled ventilation, maximum daylight area, and low cost reliability are required.



Standard louvre windows are available from 2 blade up to 14 blade ventilators and all are easily fixed without the need for special tools. Windows are produced in loose bar form for self-assembly in a range of standard heights or with an extensions piece for extended heights. Standard louvre windows provide a versatile and reliable product where ventilation and economy are the prime consideration.

Material

The louvre channels, clips (blade holders) and handles are made from Mazak alloy while the pantograph activating bars which link the louvre bearings together, are made from pre-tested steel.

Finish

Aluminium components are available in mill finish.

Construction

Each jamb channel is fitted with the specified number of blade holders at 139.7mm centres giving overlap of 12.7mm to each glass blade. Fixing holes are pre-drilled in the aluminium channels at specified centres. The operating (handle) side of the louvre window is fitted with operating mechanism and locking handle.

Installation

Detailed fixing instructions are supplied but essentially the louvre jambs, head and cill bars are simply screw fixed to a flat prepared surface which should be a minimum of 50mm wide.

Glass

Standard blade holders are made to accept 4,5 or 6mm clear or tough cast glass. Exposed long edges of all louvre blades should be smoothed. maximum recommended length of 6mm glass is 1067mm.

Glass blades for single panel units are cut to size 38mm less than the opening length and on self-mullion multiple panel units 38mm less than the panel length.

Weatherbars

Head and cill weatherbars are produced from extruded aluminum profiles fitted with a PVC weatherseal.

Sections are pierced with elongated holes to allow them to be positioned correctly during installation.

Weatherbars length is measured between the inside faces of the installation louvre window.

Weatherbars are supplied in natural anodised finish, and unless otherwise specified, will be supplied in a standard size for cutting down to exact size on site during fixing.

Multiple panel

For windows up to 14 blades high, self-mullion couplings can be used to join any number of panels to form multiple panel assemblies.

Extended sets

For openings higher than the standard louvre sizes, extension piece sets should be used. These provided a fixed head infill blade above the normal louvre unit and are cut to required size on site. The minimum size for an extension piece set is: standard louvre height plus 25mm (which gives a 38mm infill glass blade). Extension piece sets are not factory fitted to the louvre set but are supplied separately for site fitting- after being cut to required size, extension pieces are simply push-connected to the louvre jamb channel. The head weatherbar is the same for standard height window or extended height windows.

Security

Security bars can be fitted internally to the louvre channels which are factory prepared while the bars are fitted during installation. Security bars cannot subsequently be removed without dismantling the whole window. Security bars are usually paint finished. Regular maintenance should be carried out

Handing

Louvre handles are provided on the left hand side of the window viewed from inside. Right hand operation is possible but not offered as standard.

Accessories

Where remote control gear is to be used, please specify at order stage as an alternative handle must be fitted. Ring handle adaptors are available to convert the standard handle into a handle suitable for pole operation. A 25mm diameter pole head is available.

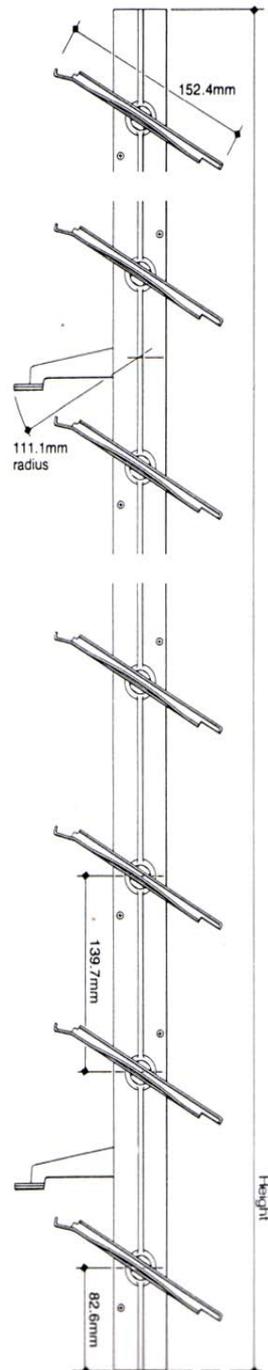
Where 'out of reach' windows occur, drop rod is 1500mm Aluminium louvre blades can be supplied in lieu of glass blades.

Insect screens are available for various installation details.

Location

Standard louvre windows are for use sheltered locations where ventilation is a prime consideration

Section



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Typical details

Other products

Details of all other products are available from sales office.

152mm de luxe louvres

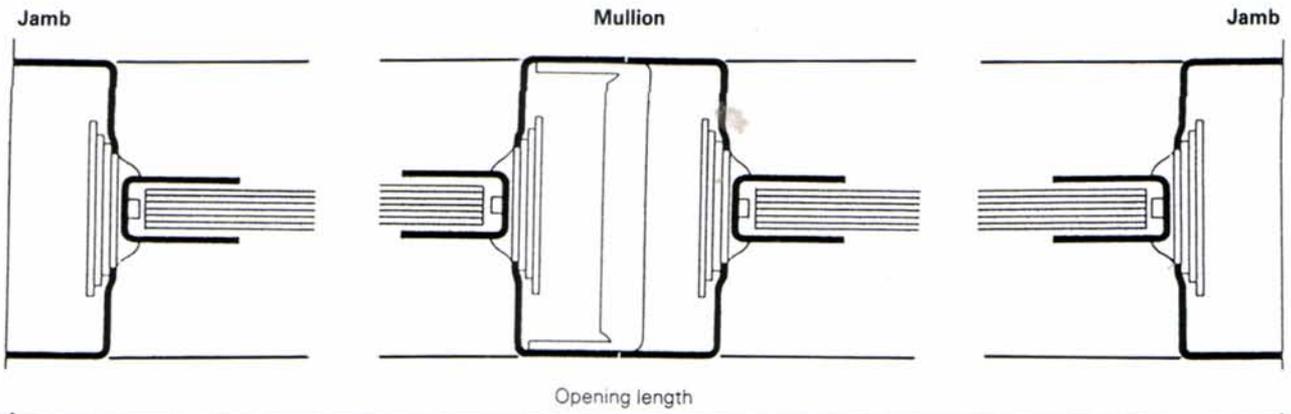
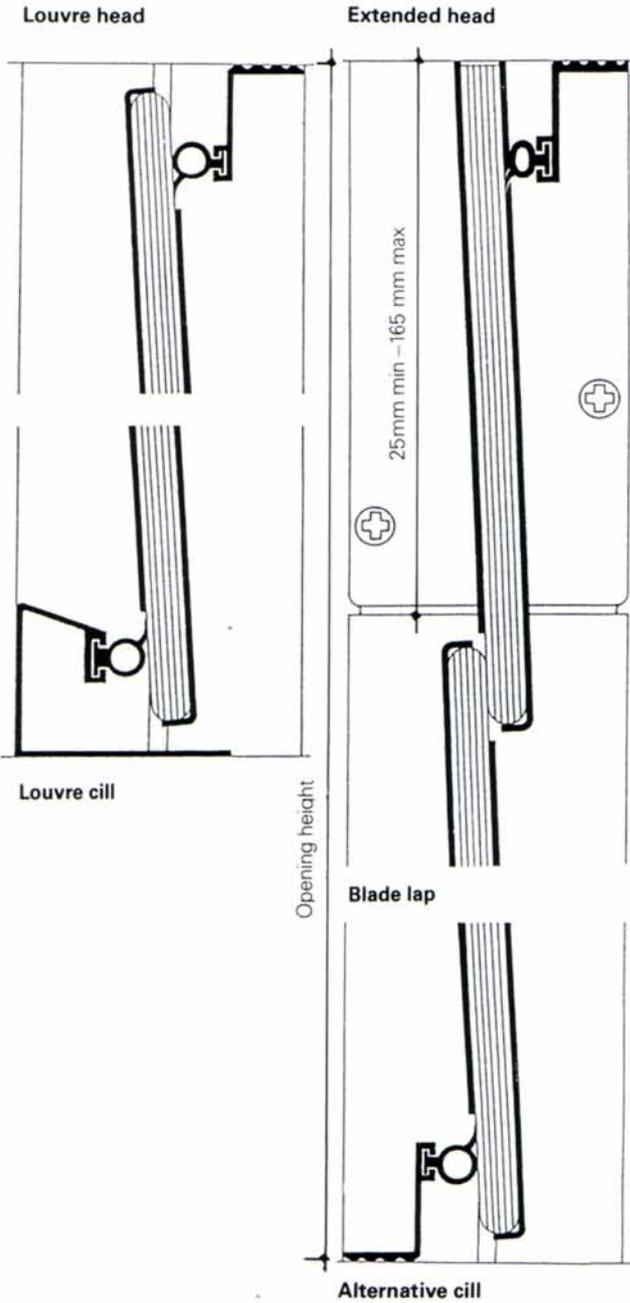
Beta de luxe
Improved performance from a self-assembly louvre window.

Weatherbeta louvres

Top quality glass louvre range offering electrical control and automatic opening options.

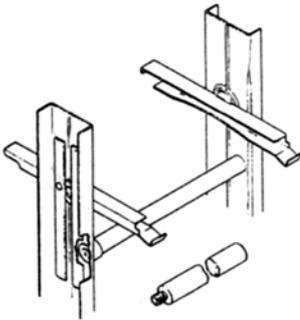
External metal louvres

The complete range of louvre products provide a wide choice of external glass and metal louvres.



Technical data and ancillary items

Security bars



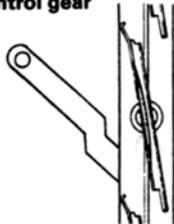
Security

Security bars can be fitted internally to the louvre channels which are factory prepared while the bars are fitted during installation.

Metal blades

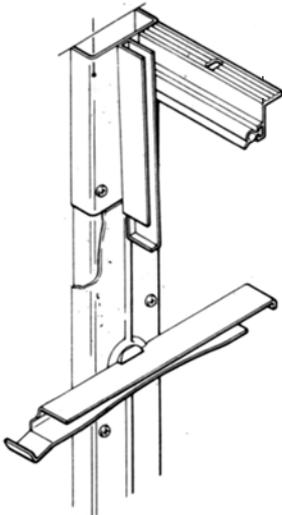
Aluminium blades are available on request.

Remote control gear



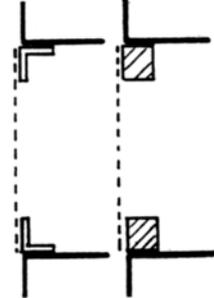
Where remote control gear is to be used, please specify at order stage as an alternative handle must be fitted.

Extension pieces



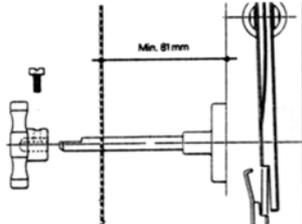
For openings higher than standard louvre sizes, extension piece sets should be used. The minimum size is 25mm, giving a 38mm fixed glass blade.

Insect screens



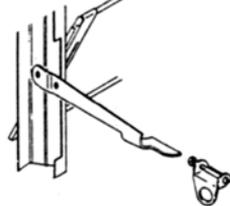
Insect screens can be fitted externally to timber or aluminium angle or internally in conjunction with rotary operator.

Rotary operator



These replace the standard handle when internal insect screens are used.

Special handles



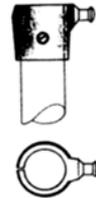
Ring handle adaptors are available to convert the standard handle into a handle suitable for pole operation.

Drop rod



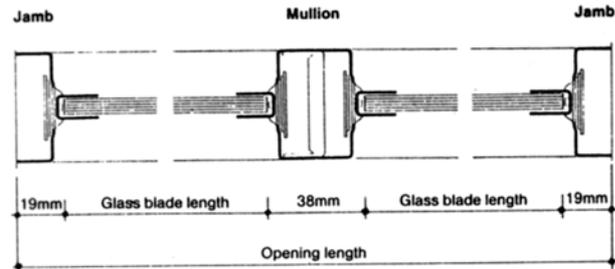
Natural anodised aluminium drop rods can be supplied for attaching to the handle.

Pole head



Specially moulded pole heads are supplied to fit onto 25mm dia poles.

Glass details



Glass recommendations

Glass thickness mm	length mm
4	610
5	740
6	1067

Extension piece glass

Length of opening mm	Minimum glass width
up to 533	38mm
533 to 711	63mm
711 to 1067	76mm

Standard height size

mm	blades	handles
305	2	
445	3	
584	4	1
724	5	
864	6	
1003	7	
1143	8	
1283	9	
1423	10	
1562	11	2
1702	12	
1842	13	
1981	14	

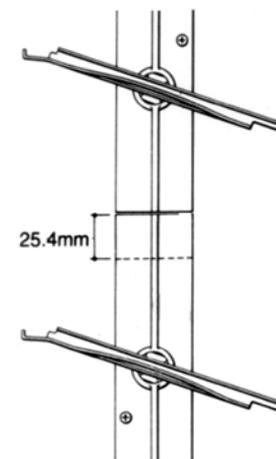
Extended height size

mm	blades	handles
330-470	2 ext	
470-610	3 ext	
609-749	4 ext	1
749-889	5 ext	
889-1029	6 ext	
1028-1168	7 ext	
1168-1308	8 ext	
1308-1448	9 ext	
1448-1588	10 ext	
1587-1727	11 ext	2
1727-1867	12 ext	
1867-2007	13 ext	
2006-2146	14 ext	

Dimension table for joining louvres

Number of blades	Total height mm	Join these units
15	2120.9	8+7
16	2260.6	8+8
17	2400.3	9+8
18	2540.0	9+9
19	2679.7	10+9
20	2819.4	10+10
21	2959.1	11+10
22	3098.8	11+11
23	3238.5	12+11
24	3378.2	12+12
25	3517.9	13+12
26	3657.6	13+13
27	3797.3	14+13
28	3937.0	14+14
29	4076.7	10+10+9
30	4216.4	10+10+10

Vertical jointing



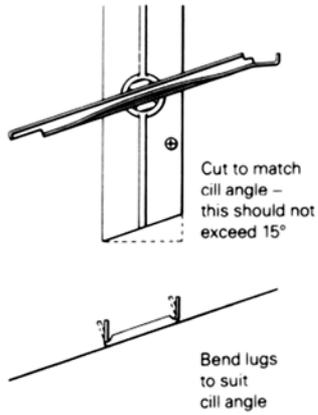
Where louvres are joined vertically the top end of the lower channel must be shortened by 25.4mm to allow the correct weather sealing overlap to occur.

For larger height sizes please contact sales office.

Technical data

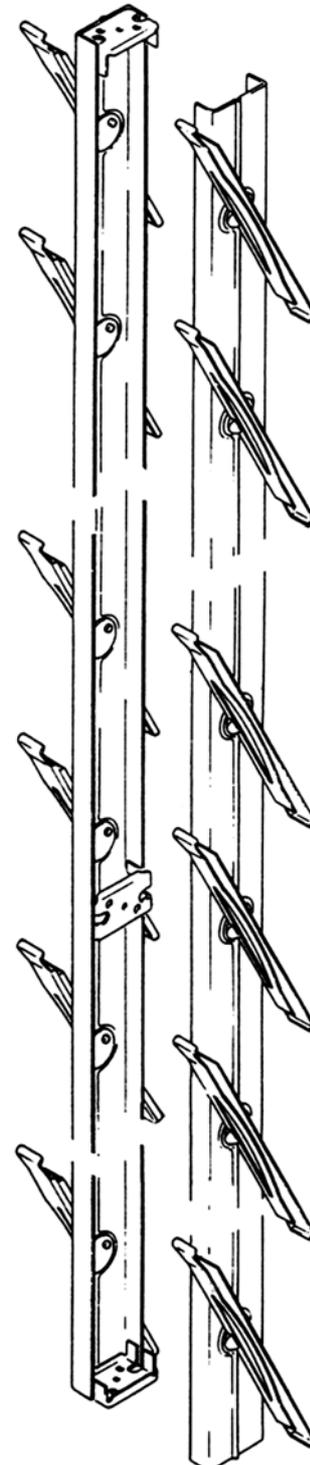
Self-mullioned louvres

When the length of the opening exceeds the recommended maximum, units can be joined to form their own mullions so making it possible to use Naco louvres over any length of opening.

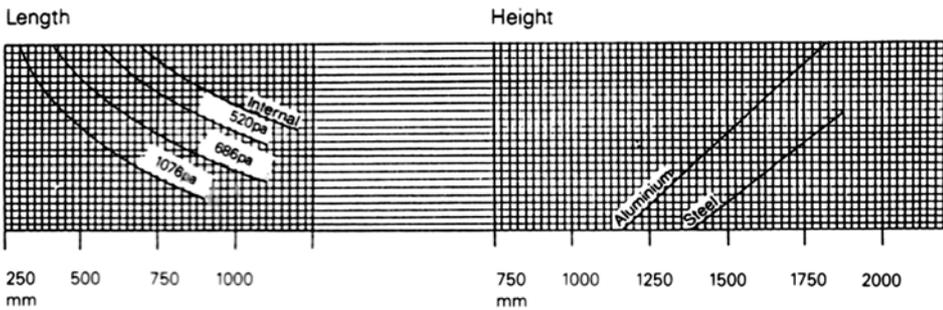


Self-mullioned louvres

Section through showing units joined together to form self-mullions.



Self-mullion design graph



- 1 With length of louvre known, project upwards to meet exposure condition curve.
- 2 Project horizontally to meet louvre channel material line.
- 3 Drop down to read maximum allowable height.

Spacer position and quantities

Number of clips	Mullion screws and bolts	Fixing screws for jambs	Number of spacers	Spacer hole from bottom of louvre
2	2	4	3	1
3	3	6	3	3
4	4	8	3	3
5	6	12	4	3, 5
6	6	12	4	3, 5
7	6	12	4	3, 5
8	6	12	4	3, 5
9	7	14	5	3, 5, 6
10	7	14	5	3, 5, 6
11	8	16	5	3, 5, 7
12	8	16	5	3, 5, 7
13	8	16	6	2, 3, 5, 7
14	8	16	6	2, 3, 5, 7