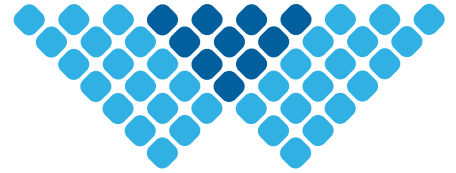
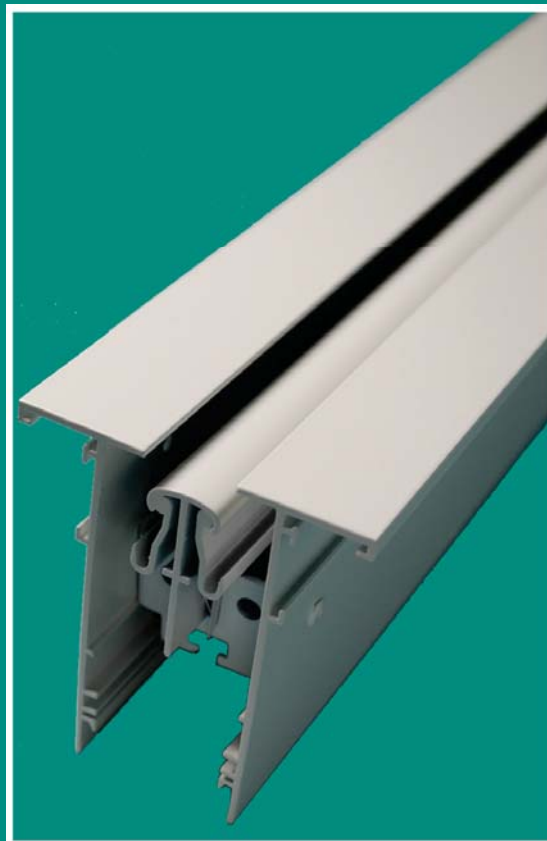


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CS, LCS Plaster Sub Frame





CS, LCS Plaster Sub Frame

Introduction

The plaster in Sub frame is for use with Plasterboard, the sub frame sits behind the plasterboard and allows for standard Waterloo slot diffusers to be removed without disturbing the plaster.

Fixing should be specified by installer.

Plasterboard cut outs are shown on pages 3 and 4.

If installing into a single layer of plaster board the narrow flanges should sit onto the plasterboard.

The spacer should be used to ensure that the sub frame is held at the correct spacing at 400mm centres. The spacer locates into the slot at the top of the sub frame and twists into position.

It is recommended that a pilot hole is drilled from below through the plasterboard then through the sub frame, to allow a countersunk screw to be used to retain the frame in position.

The provided alignment strips should be used for continuous linear runs (Figure 1).

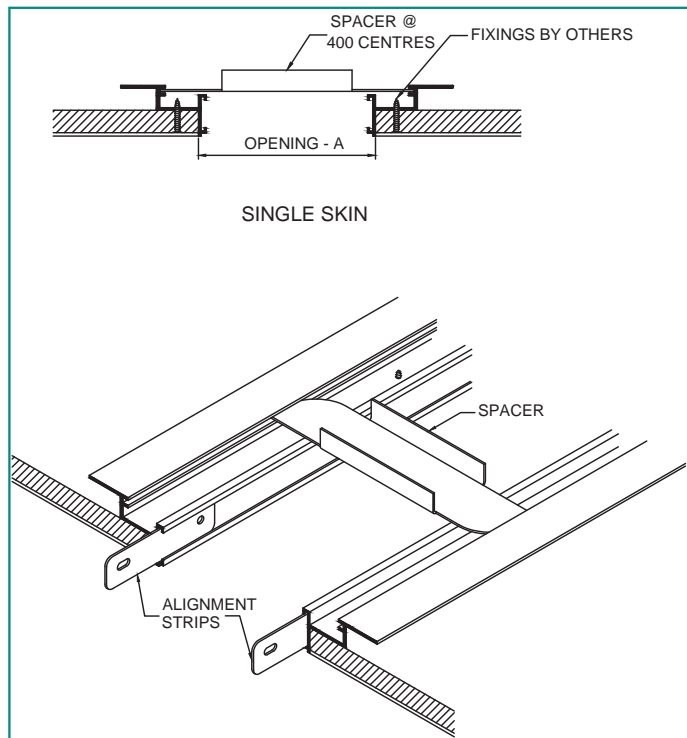


Figure 1

If installing into a double layer of plasterboard the plasterboard must be staggered so that the Sub frame sits flush with the ceiling.

The spacer should be used to ensure that the sub frame is held at the correct spacing at 400mm centres. The spacer locates into the slot at the top of the sub frame and twists into position.

It is recommended that a pilot hole is drilled from below through the plasterboard then through the sub frame, to allow a countersunk screw to be used to retain the frame in position.

The provided alignment strips should be used for continuous linear runs.

A skim coat of plaster can then be applied to the edges of the frame, taking care to remove any excess plaster from inside the sub frame.

The diffusers are installed into the sub frames using the supplied fixings to fix to the plenums, any non-active sections will require plasterboard hanging brackets to be ordered (Figure 2).

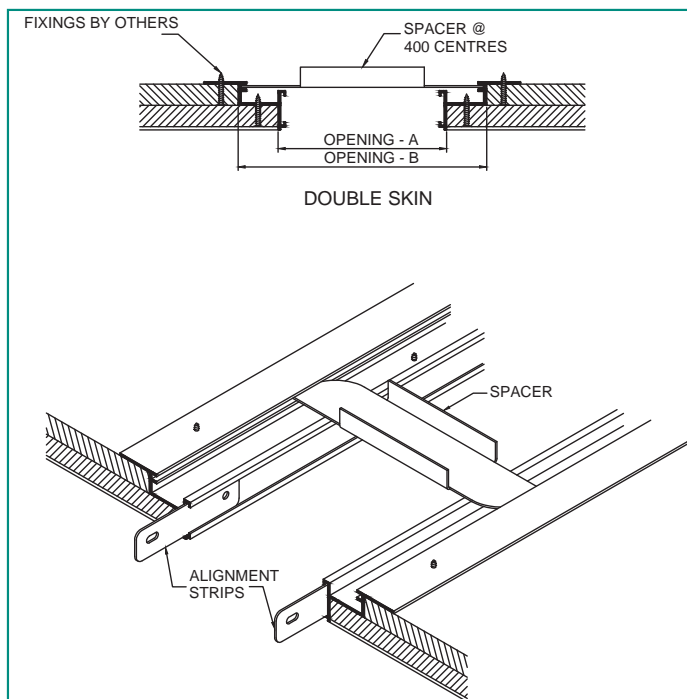


Figure 2



CS, LCS Plaster Sub Frame

DIFFUSER + ENDS - INSTALLATION DETAILS

Figure 3

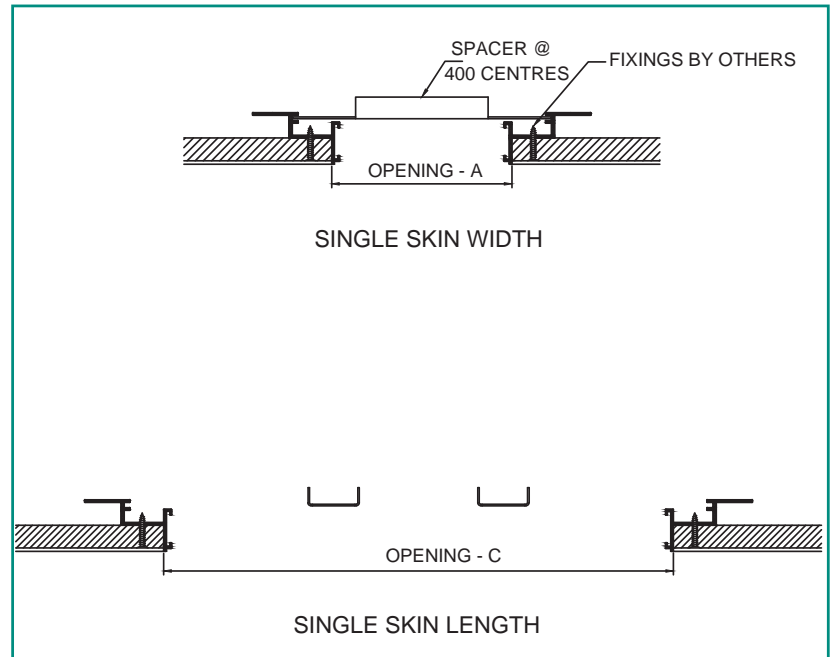


Figure 3a

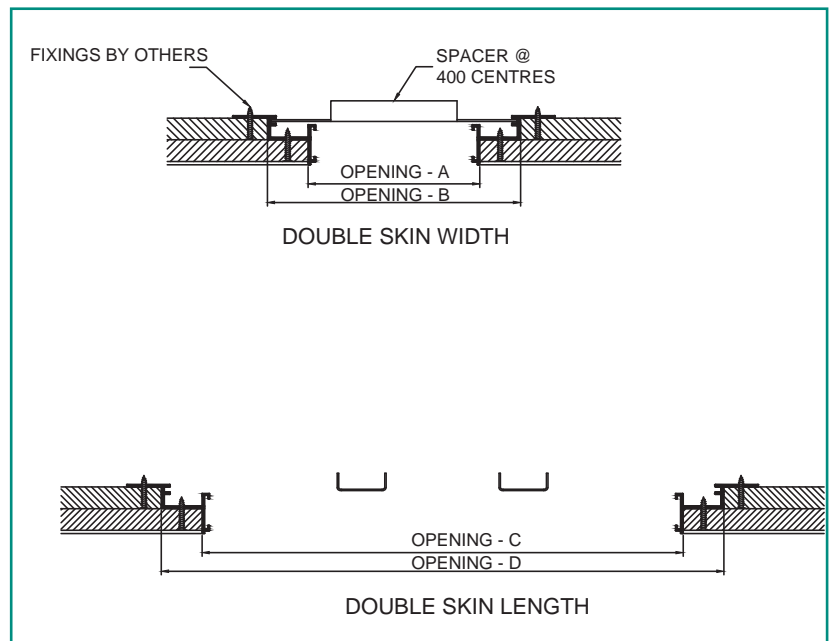


Table A

OPENING WIDTHS								
	1 SLOT	2 SLOT	3 SLOT	4 SLOT	5 SLOT	6 SLOT	7 SLOT	8 SLOT
DIMENSION A	62	100	138	176	214	252	290	328
DIMENSION B	109	147	185	223	261	299	337	375

OPENING LENGTHS		
	DIMENSION C	DIMENSION D
CSP / STANDARD END CAPS	NOMINAL LENGTH + 41	NOMINAL LENGTH + 88
CSP / MITRED END CAPS	NOMINAL LENGTH + 5	NOMINAL LENGTH + 52
CSF / STANDARD END CAPS	NOMINAL LENGTH + 41	NOMINAL LENGTH + 88
CSF / MITRED END CAPS	NOMINAL LENGTH - 15	NOMINAL LENGTH + 32
CSJ / STANDARD END CAPS	NOMINAL LENGTH + 41	NOMINAL LENGTH + 88
CSJ / MITRED END CAPS	NOMINAL LENGTH - 9	NOMINAL LENGTH + 38



CS, LCS Plaster Sub Frame

DIFFUSER + END MAKE UP SECTION - INSTALLATION DETAILS

Figure 4

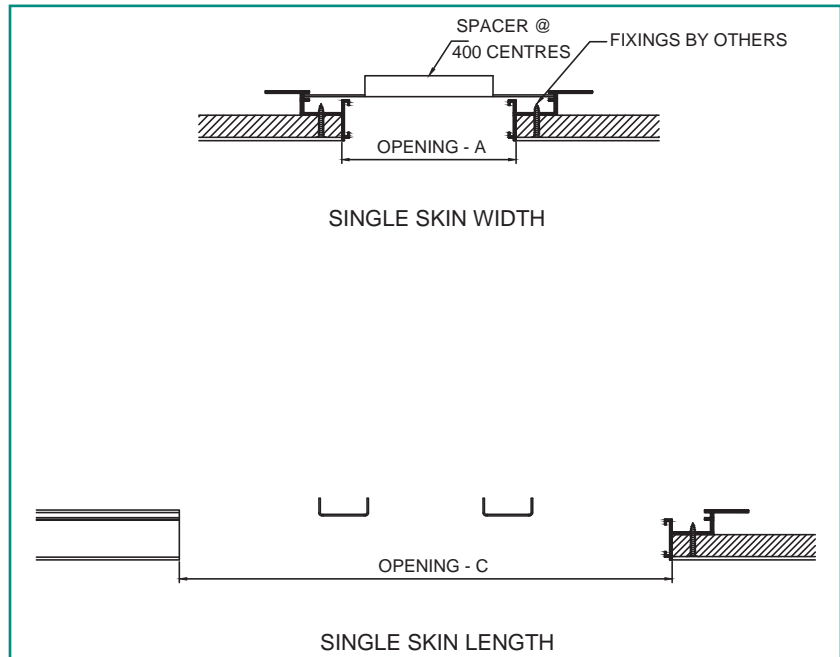


Figure 4a

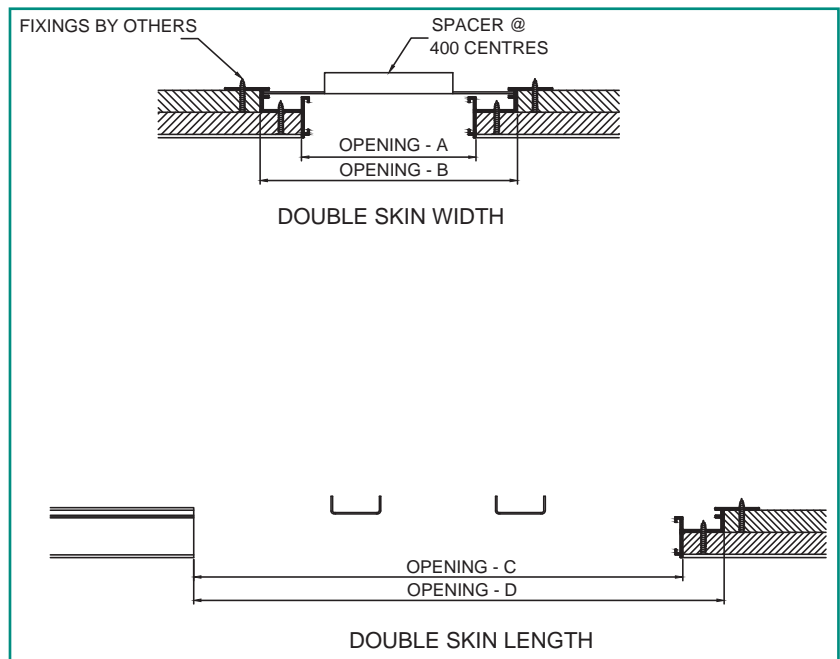


Table B

OPENING WIDTHS								
	1 SLOT	2 SLOT	3 SLOT	4 SLOT	5 SLOT	6 SLOT	7 SLOT	8 SLOT
DIMENSION A	62	100	138	176	214	252	290	328
DIMENSION B	109	147	185	223	261	299	337	375

OPENING LENGTHS		
	DIMENSION C	DIMENSION D
CSP / STANDARD END CAPS	NOMINAL LENGTH + 21	NOMINAL LENGTH + 44
CSP / MITRED END CAPS	NOMINAL LENGTH + 3	NOMINAL LENGTH + 26
CSF / STANDARD END CAPS	NOMINAL LENGTH + 21	NOMINAL LENGTH + 44
CSF / MITRED END CAPS	NOMINAL LENGTH - 7	NOMINAL LENGTH + 16
CSJ / STANDARD END CAPS	NOMINAL LENGTH + 21	NOMINAL LENGTH + 44
CSJ / MITRED END CAPS	NOMINAL LENGTH - 4	NOMINAL LENGTH + 19



Waterloo Product Range

GRILLES

A complete range of products suitable for all wall, ceiling and floor applications. Most grilles are made from aluminium and have a range of fixed or moveable blades designed to give performance whilst remaining aesthetically pleasing to the eye. Grilles are made to customer specified sizes and colours (PPM/G); standard colour PPM9010 (20% Gloss White). The range is complemented by the Aircell range of polymer Grilles.



DIFFUSERS

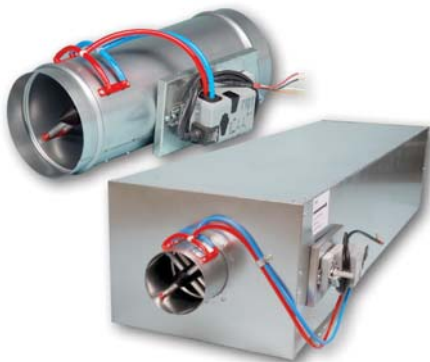
Designed to be installed in various ceiling systems, we have a complete range to suit both performance and aesthetical requirements. Most diffusers are made from aluminium and can be ordered with or without plenum boxes for easy duct work. Diffusers can be ordered in customer specified colours (PPM/G); standard colour is PPM 9010 (20% Gloss White). This range is complemented by the Aircell range of polymer Diffusers.



ACTIVE AND PASSIVE CHILLED BEAMS

The finest quality range of high output active beams, used for ventilated heating and cooling applications. These units have 4 pipe coils to allow heating and cooling circuits to run simultaneously, giving constant and responsive control. The design allows a large optimum capacity and also allows the customer to specify the nozzle type and pitch for individual circumstances.

Active beams are made from steel to a large range of customer specified sizes and as such are suitable for various different ceiling systems. Standard finish is PPM 9010, however other (PPM/G) colours are available on request.



AIR VOLUME CONTROL DAMPERS

Pressure independent Variable Air Volume and Constant Air Volume dampers made from zintec plate. Most volume dampers are regulated with an electronic motor and sensors and are calibrated to customer specifications before delivery.

The Constant Air Volume damper requires no power source as it is controlled via a mechanical device and calibrated before delivery. All volume dampers can be ordered with a single or double (insulation) skin.

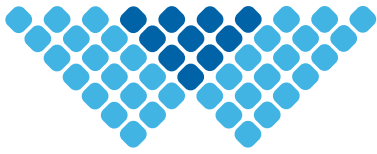
EXTERNAL LOUVRES

A quality range of products for external wall applications. Made from aluminium, with birdscreen or insect screen options. All louvres are made to customer specified sizes and (PPM/G) colours; standard colour is PPM 9006.



DISPLACEMENT

A full range of recessed, semi-recessed, floor, wall and corner units providing high ventilation efficiency and excellent comfort. The very low pressure involved also offer quiet installations. Displacement units are available as wall or floor mounted, or indeed integrated within the architectural design.



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