Exitex Ltd

MDS Threshold Solution Fabrication & Installation Guide

Craig Lewis – Mob: 07730 643313

Exitex Ltd – Dundalk, Ireland
Tel : (+353 42) 937 1244
Fax : (+353 42) 937 1221
Email : info@exitex.com

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Contents

Fabrication / Installation

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Overview

The MDS Solution has been designed around the MDS 25 threshold that has been a part of the Exitex threshold offering for many years and has proven it's self-time and time again as a great solution for an array of different applications.

With these additions to the MDS family being focused towards the PVC door market and the ever increasing need for higher Security, Weather and flexibility of application.

This threshold's unique ability to be transformed into an outward opening threshold with the simple application of an infill bar means that it is not only the next step in the evolution of thresholds but also means that fabricators stock holdings are dramatically reduced.

We have recently added a Polyamide rolled in thermal break into these thresholds to further increase the U-Value of the product and assist with the fabricators trying to achieve lower and lower values.

With this aesthetically pleasing solution now offering both Gold and Silver finishes for inward / outward, straight to floor & on a PVC sub sill requirements as well as optional ramps all bases are covered !

When it comes to weather performance the MDS range offers its infamous, large, dual hard EPDM gasket that has helped us achieve ratings of 100-200 pascals (water) .

For the fitting of the threshold to the frame we again have covered all options, cutters are available for fabricators who wish to go for the end milled option, we have FSB endcaps for fabricators who wish to sit the outer frame on top of the threshold. And now we have introduced frame specific internal endcaps that allow the threshold to be removed and replaced without the need for removing the entire frame work.

These products can be used together in a variety of different ways, so if the solution you are looking to achieve is not fully explained in this guide please contact Exitex Ltd for further assistance.

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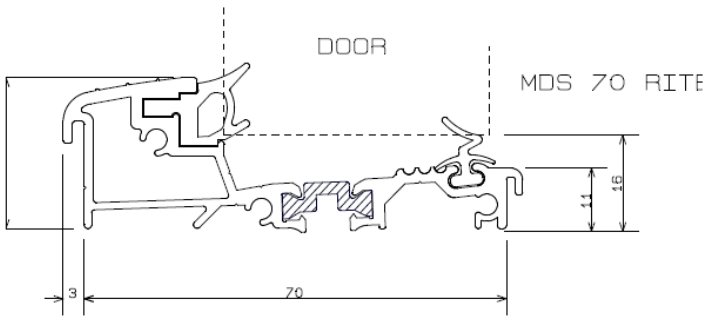
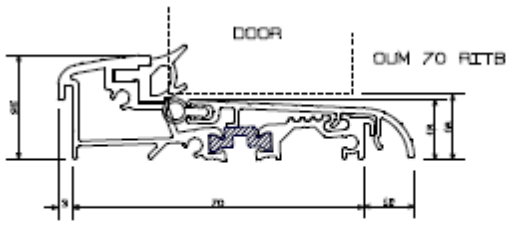
Products

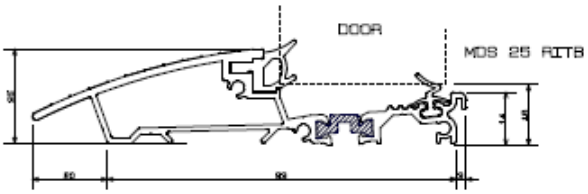
MDS 70 RITB



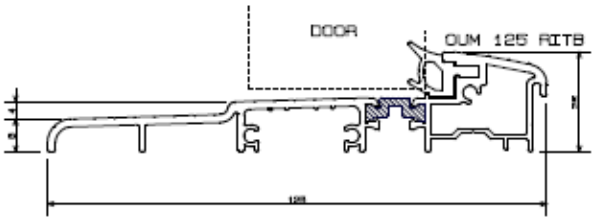
OUM 70 RITB



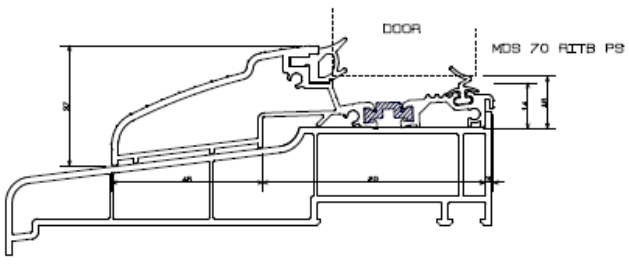
MDS 25 RITB



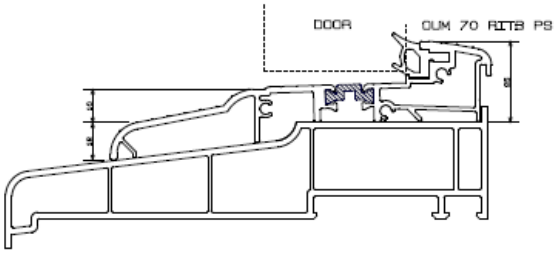
OUM 125 RITB



MDS 70 RITB PS



OUM 70 RITB PS



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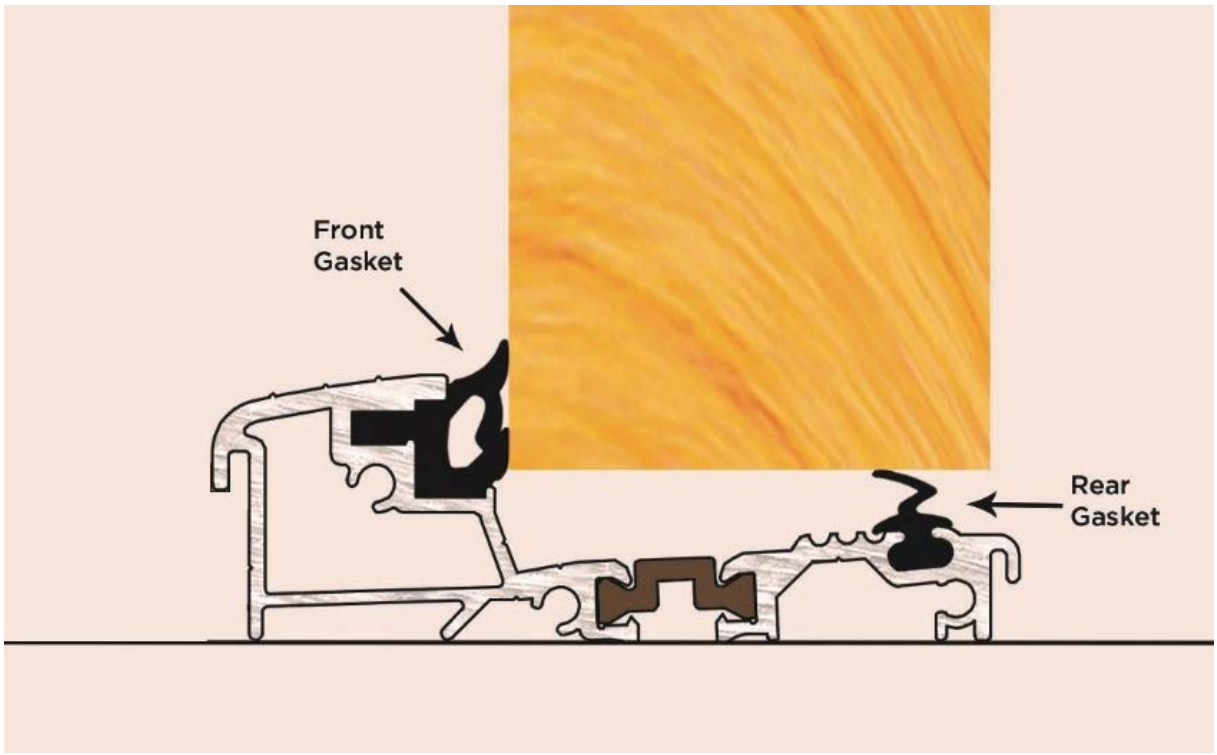
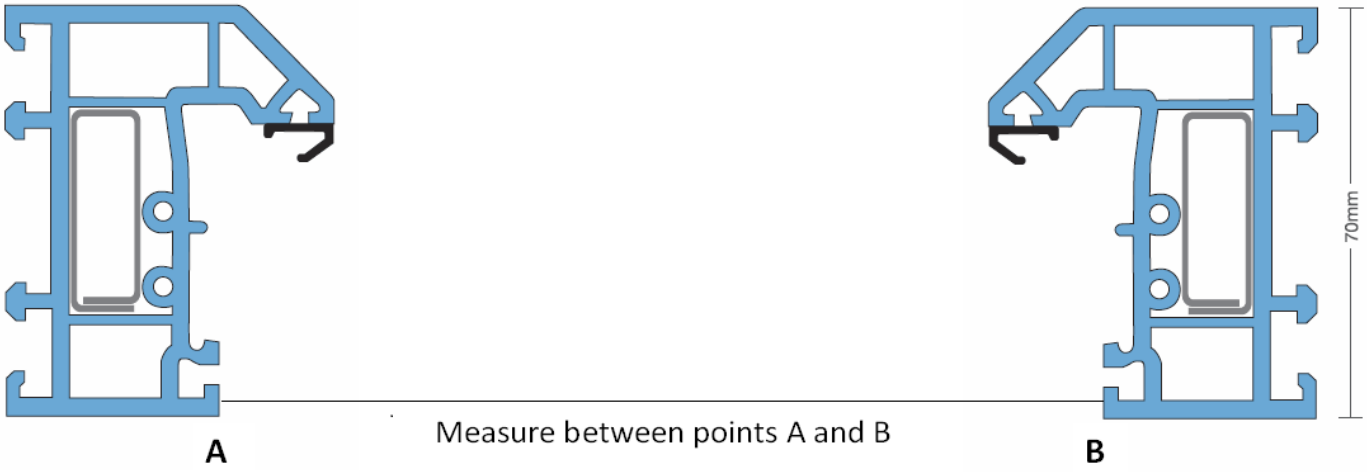
Threshold measurement / Endcap deductions

For fabricators who either End Mill or are using the FSB (Flat Setting Block) Endcaps the threshold can be measured and cut to the exact size of your overall outer frame.

For fabricators using internal endcaps you will be required to remove the front and rear rubber gaskets from the aluminium threshold prior to cutting –



Measuring the required distance between the frame using the small face to small face as shown below –



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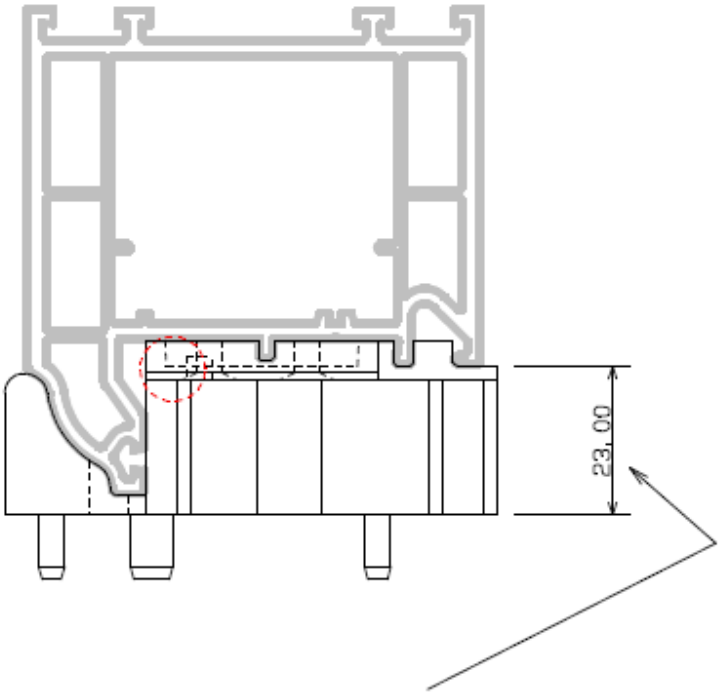
Once you have this measurement you will need to use the below diagram to make the correct deductions from the threshold length, ensuring to take this measurement off each side for both of the endcaps.



21mm sill reduction	23mm sill reduction	24mm sill reduction	28mm sill reduction
Duraflex 7512	Aluplast Ideal 70 Deceuninck 2533 Deceuninck 2833 Duraflex 7504 Eurocell Eurologik Halo Eclipse Halo Rustique Halo System 10 Kommerling C70 Liniar LCW/LSW 016 Rehau S706 Rehau T70C Spectus Elite 70 Synseal Legend Synseal Synerjy	Sheerframe 8000	Eurocell EWS031

EXAMPLE –

Frame - Spectus Elite 70 = 23mm deduction for each endcap
Opening Measurement **A**-**B** =1000mm - 23mm(x2) = 954mm

Required threshold length – **954mm**

If the endcap you require is not listed above please contact your sales manager for further details.

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Threshold / Endcap Fitting

End Milling

If you're chosen threshold fixing method is to end mill the frame to sit on top of the threshold this eliminates the need for endcaps, please ensure that there is a suitable fixing material secured inside the frame cavity to allow (at least) 2 good screw fixings to be located up through the threshold into this location.

It is advised that you silicone between any meeting surfaces of the frame and threshold.

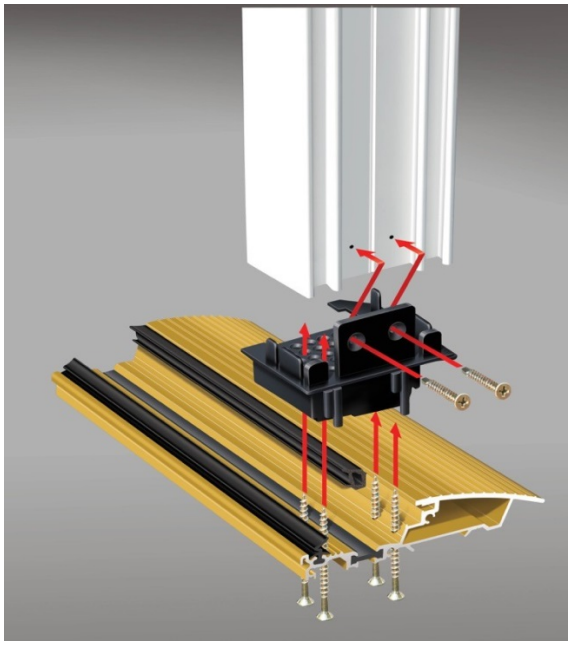
FSB (Flat Setting Block) Endcaps

If you are using the FSB Endcaps these will need to be located onto the frame (square cut) and fixed onto the frame using screws, screwing into the frame at reinforcement / screw ports.

Drill pilot holes through the threshold / FSB to line up with the reinforcement in the frame.

You will then be required to fit 2-4 Number screws (depending on the reinforcement used in the frame) up through the threshold into the location pockets of the FSB Endcap.

It is advised that you silicone between any meeting surfaces of the Frame / Endcap and Endcap / Threshold.



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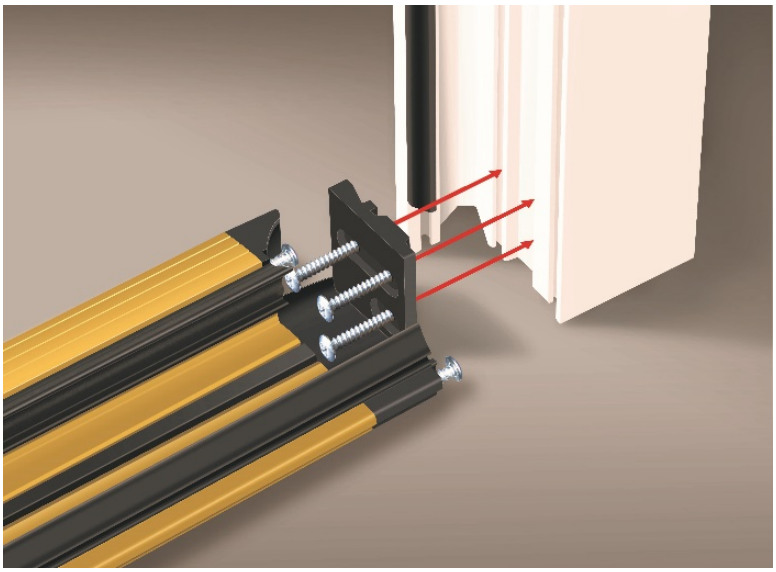
Internal Frame Specific Endcaps

Before fitting the internal endcaps you will need to replace the gaskets you removed for cutting ensuring that on the rear gasket you add the same length back on that you deducted for the endcaps (as this gasket will carry on through the endcap)

The locating lugs push into the recesses in the threshold, aligning up the 3 screw holes in the endcap and threshold, screw into place using 3.9x60mm CSK Stainless steel screws.

Align the endcaps with the frame and screw into position.



It is advised that you silicone between any meeting surfaces of the Frame / Endcap and Endcap / Threshold.

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Outward Infill Bar

For installing the MDS/70TB solution for Outward opening applications you will require the - Outward Infill (Fig 9) this will come with the bridging gasket pre- fitted into the rear slot.

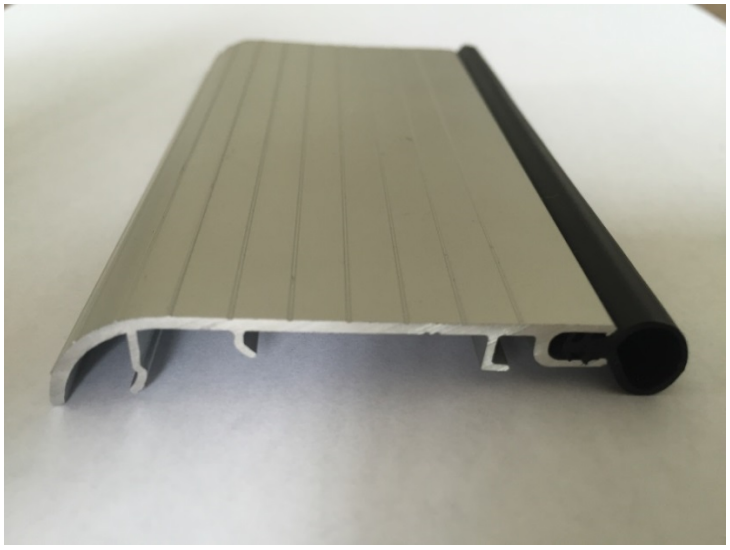

Figure 1

To fit the MDS/70TB for outward opening please proceed as per the instructions for threshold measurement and fitting – ENSURING TO LEAVE THE REAR GASKET REMOVED.

The Outward infill Bar will need to be cut to fit the opening of the door, between the two small faces (as shown on Page 4)

The outward infill can then be fitted onto the threshold by placing the locating Rib (No1 Fig 10) into the empty rear gasket slot (No1 Fig 11)

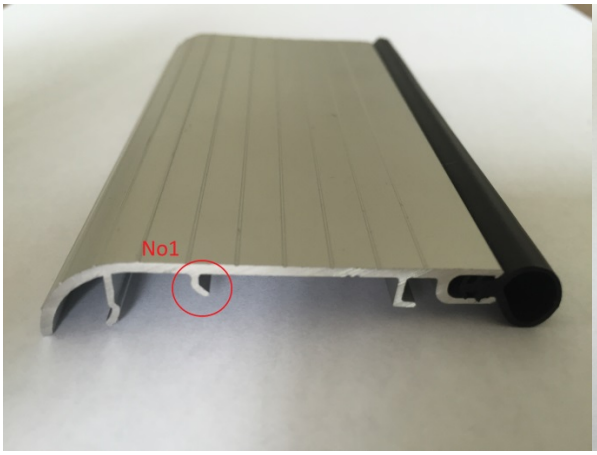

Figure 2

Figure 3

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Once this is located you will need to apply pressure onto the Outward infill to push the Rear locking Rib (No2 Fig 12) down over the threshold Locking ridge (No2 Fig 13)

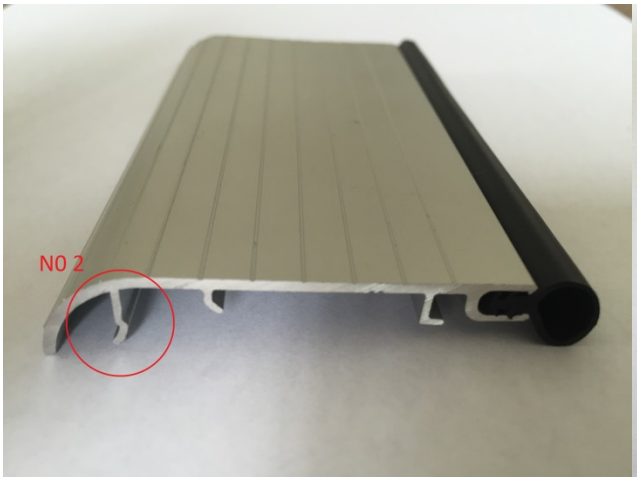


Figure 4

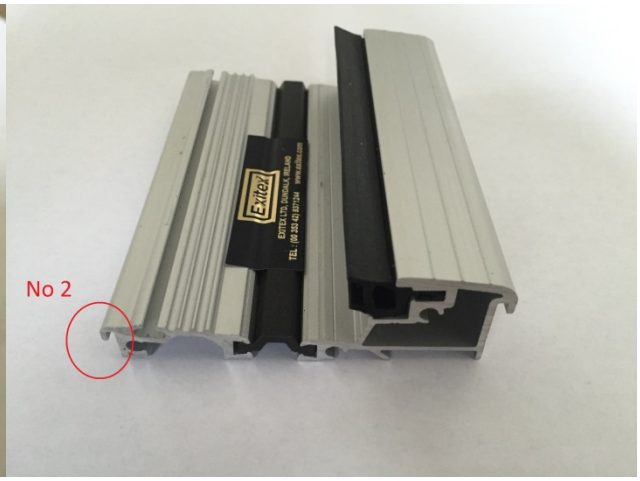
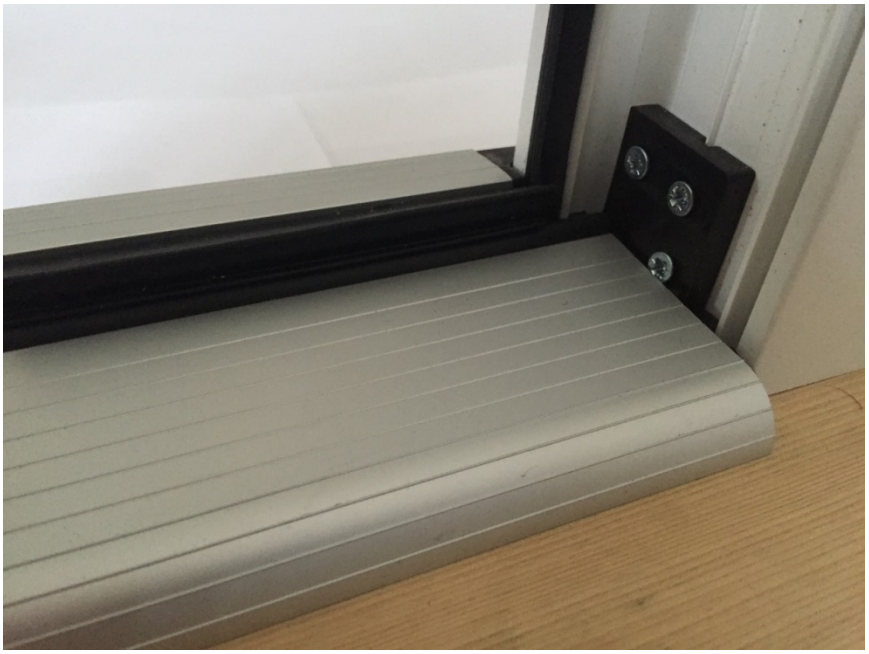


Figure 13

This will then give you a securely fitted outward opening ramp that when correctly fitted will run the full width of the opening going all the way up to the internal endcap on both sides. The Bridging gasket on the Outward infill should sit just underneath the Threshold front gasket and give you an extra seal to assist with weather performance.



It is advised that you silicone between the meeting surfaces of the Frame / Endcap and Endcap / Outward infill.

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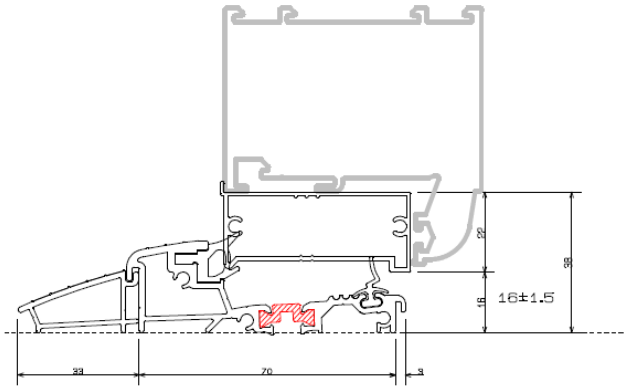
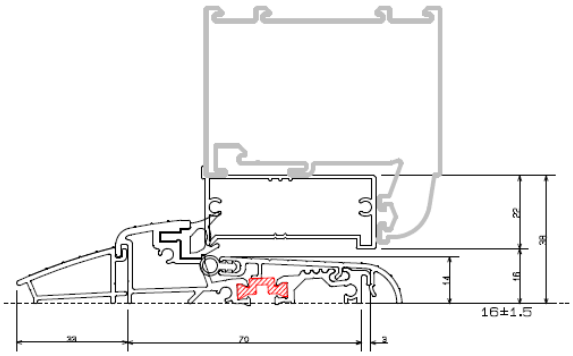
Under door clearance

The under door clearance for all options is 20mm +/- 1.5mm

Please see below diagram on the deductions, this will ensure that there is sufficient clearance under the door to avoid any fouling but still achieve maximum gasket compression for best weather performance.





Frame deductions

End milling	FSB Endcaps	Internal Endcaps
Frame – As Milled	Frame – 27mm	Frame – 0mm
Sash – 20mm	Sash – 20mm	Sash – 20mm
Mullion – 20mm	Mullion – 20mm	Mullion – 20mm

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Drainage Details

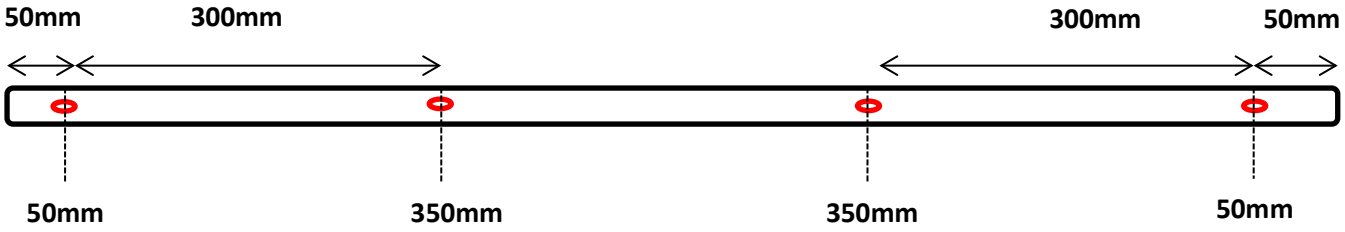
If you have requested your thresholds undrilled (which is generally the case when taking longer lengths to minimise wastage of threshold) please see below recommended drainage detail –

Inner drainage - Ø 6mm holes drilled 50mm from the inside of the door frame, Ø 6mm holes drilled approximately every 300mm thereafter.

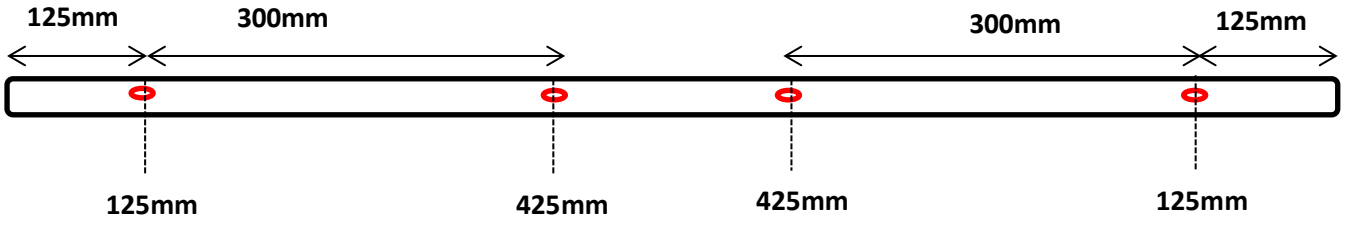
Ø 6mm Outer drainage holes offset from the Inner drainage holes by approx. 75mm. (This will reduce any possible blow-back of water through the holes and into the threshold)

A minimum of 4 (2 Internal and 2 External) Drainage holes are recommended per metre length of threshold.

Inner drainage detail example (1000mm threshold)



Outer drainage detail example(1000mm threshold)



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Floor Fixing / Sealing guidelines

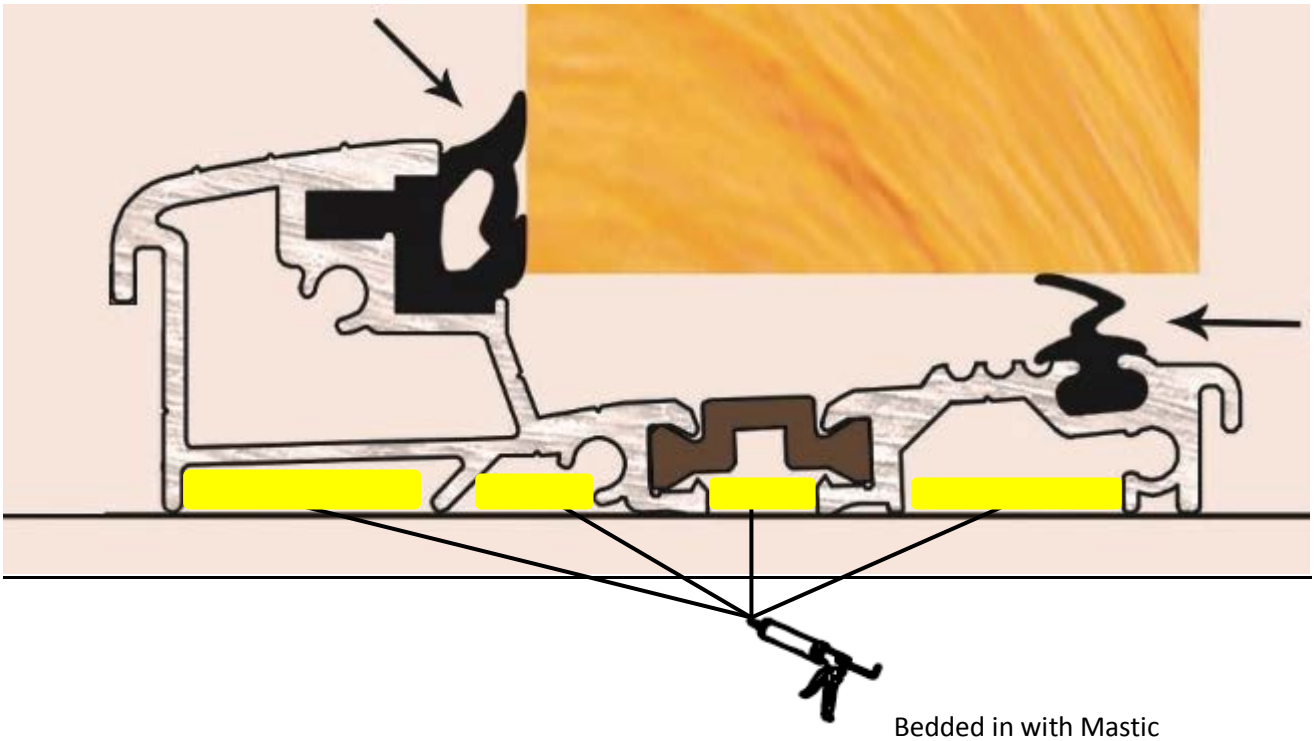
Optimum underside of door to floor clearance – 20mm

This Allows:-

- The front face of the door to compress against the MDS front gasket.
- The underside of the bottom door infill to lightly compress the rear gasket.
- Maximises the carpet / floor covering clearance when the door is opened.

Set and bed the threshold (using a suitable mastic) into the door frame to ensure that the front gasket has good compression along its entire length when the door is closed and locked into position.

When the Threshold / Doorset is installed the threshold should be thoroughly bedded onto a level floor surface using mastic, at this point it is very important to make sure that no sealant has blocked up any drainage holes.



Bedded in with Mastic

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Ramp End Caps

When fitting the MDS 70 RITB PS or OUM 70 RITB PS with internal (FS) Endcaps please ensure that you fit the ramp end caps to close off the open section of the ramp.

End Caps are press fit but should also be sealed with mastic.

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