

Millmerran

Introducing - the range of **R_wEX™** acoustic and smoke-seals from Millmerran



Acoustics



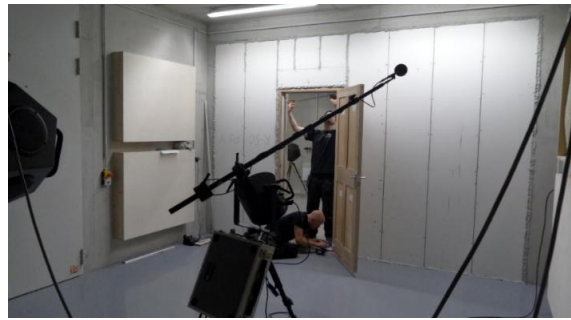
Smoke



Fire

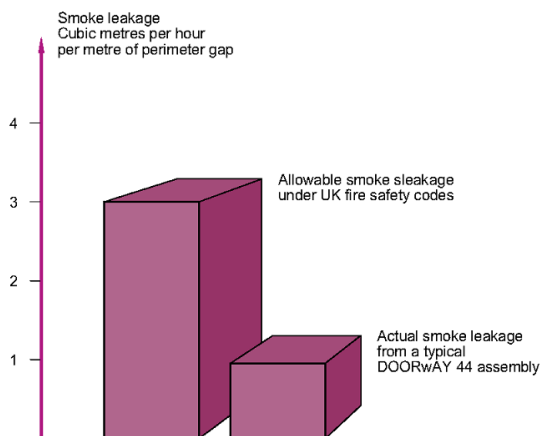
After intensive research and product development, Millmerran is able to bring you a comprehensive selection of top performance acoustic seals for architectural door assemblies.

Working alongside our sister company, Doorway Technical Centre, these seals have been very successfully tested on architectural door assemblies in accordance with BS EN ISO 10140 at independent UK and European laboratories.



Door assembly being installed by DTC technicians for authorised independent acoustic testing

A good acoustic seal is invariably a good smoke seal when evaluated under the conditions of BS 476 Pt 31.1 or BS EN 1634-3 and further successful tests have been undertaken to demonstrate the **R_wEX™** performance in these environments.

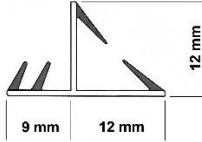
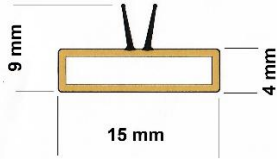


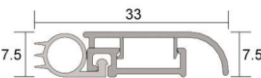
Smoke leakage performance comparison

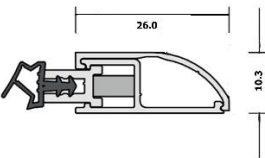


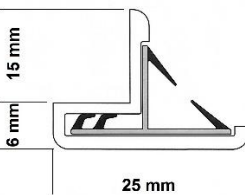
Door assembly incorporating **R_wEX™** sealing systems undergoing independent smoke performance testing

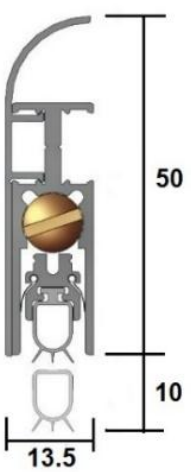
The **R_wEX™** Range of seal products

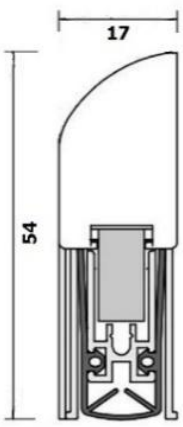
Smoke & acoustic perimeter seal Ref: MR 1212 (Also MR 1010 & MR 1515)		
Self-adhesive high performance smoke & acoustic seal - fits between the stop and the leaf edge to enable an uninterrupted barrier, bypassing hinges and other ironmongery Extruded PVC spine with integral elastomeric acoustic / smoke fins Designed, tested and manufactured in the UK by Millmerran	The original and still the best!  Features a central flexible hinge element that enables fitting in less than half the time of similar products on the market Acoustic / smoke fins are high resilience and durable elastomeric material, ensuring long term performance & serviceability	Available as 10mm x 10mm 12mm x 12mm 15mm x 15mm In lengths of 2100mm & 1000mm Other lengths to special order Colours - black, white, silver-grey, lt brown, dk brown
Smoke & acoustic perimeter seal Ref: MR 1212 K		
Similar to the above but designed for kerf fitting - 3mm x 10mm groove required Very quick to fit Designed, tested and manufactured in the UK by Millmerran	 Acoustic / smoke fins are high resilience and durable elastomeric material, ensuring long term performance & serviceability	Available as 12mm x 12mm In lengths of 2100mm & 1000mm Other lengths to special order Colours - black, white, silver-grey, lt brown, dk brown
Fire, smoke & acoustic perimeter seal Ref: MP 1504 TS		
Combined fire/smoke/acoustic seal consisting of an extruded PVC casing with integral elastomeric fins and a high performance intumescent core. Peel-off self-adhesive backing. Designed, tested and manufactured in the UK by Millmerran	 Acoustic / smoke fins are high resilience and durable elastomeric material, ensuring long term performance & serviceability Intumescent core is comprehensively fire tested and compatible with all FD 30 timber door constructions	Available in lengths of 2100mm & 1000mm Other lengths to special order Colours - black, white, silver-grey, lt brown, dk brown Co-ordinating plain fireseals and glazing gaskets are also available

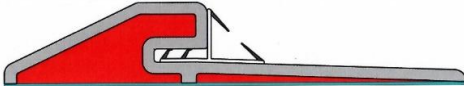
Smoke & acoustic perimeter seal Ref: MK 7020		
Door frame mounted aluminium holder incorporating a resilient silicone rubber seal. Screw fixings concealed by a neat snap-on aluminium cover plate Designed & manufactured by Kilargo TM, Australia. Acoustic, smoke & fire tests conducted in the UK by Millmerran		Available as 2250mm lengths 1000mm lengths Finish - Silver anodized aluminium with lt grey or black silicone rubber gasket

Smoke & acoustic perimeter seal Ref: MA 2610		
Similar to the above but with self-adjusting internal springs to ensure the seal makes precise contact with the door leaf over the whole length and compensates for any movement with changing atmospheric conditions. Essential for maximum performance sound reduction Designed & manufactured by Athmer TM, Germany. Acoustic, smoke & fire tests conducted in the UK and Germany by Millmerran		Available as 2250mm lengths 1000mm lengths Finish - Silver anodized aluminium with black gasket

Smoke & acoustic astragal seal Ref: MK 7061		
Astragal high performance smoke & acoustic seal for double doors Designed & manufactured by Kilargo TM, Australia. Acoustic, smoke & fire tests conducted in the UK by Millmerran		Available as 2250mm lengths (Others on request) Finish - Silver anodized aluminium with black sealing element

Smoke & acoustic threshold seal Ref: MK 8036		
Face-fixed silicone rubber seal in an aluminium holder - vital for smoke and acoustic performance - the silicone seal retracts into the holder as soon as the door leaf is opened by a few millimetres. No electrical connections are required. Easily adjusted for width across the door leaf and comes with a neat cover-plate to conceal the screw fixings. 10mm extension and retraction throw Designed & manufactured by Kilargo™, Australia. Acoustic, smoke & fire tests conducted in the UK by Millmerran	 For effective sound reduction and smoke control, a threshold seal is an essential requirement. In terms of performance, face fixed threshold seals are preferable to the types that are concealed within the thickness of the door leaf	Available as 920mm wide (Can be reduced by up to 100mm) 820mm wide (Can be reduced by up to 100mm) Finish - Silver anodized aluminium with lt grey sealing element

Smoke & acoustic threshold seal Ref: MA 5417		
Similar to the above but with a different design of silicone rubber gasket for enhanced sound reduction. Essential for maximum acoustic performance. Designed & manufactured by Athmer™, Germany. Acoustic, smoke & fire tests conducted in the UK and Germany by Millmerran	 For effective sound reduction and smoke control, a threshold seal is an essential requirement. In terms of performance, face fixed threshold seals are preferable to the types that are concealed within the thickness of the door leaf. Furthermore, face-fixed threshold seals do not compromise the fire performance of the door assembly.	Available as 930mm wide (Can be reduced by up to 125mm) 805mm wide (Can be reduced by up to 100mm) Finish - Silver anodized aluminium with black sealing element

Smoke and acoustic threshold plate Ref: MN 4080		
Aluminium threshold plate with an additional elastomeric seal for enhanced smoke and acoustic performance. Compact design with the underside filled with high performance fire & acoustic compound. Finished with a resilient bedding sheet for optimum sound reduction. Essential for maximum acoustic performance.		Available as 80mm wide x 1000 mm long 80mm wide x 2100 mm long Silver anodized finish with black sealing element
Fire, smoke and acoustic gap-filling sealant Ref: MM 0310		
A resilient compound with both fire resistant and sound reduction capabilities, intended to fill minor gaps and clearances between joints in both the door leaf and frame construction to optimise acoustic performance		Available as 310 ml cartridges Medium brown colour or white

Please note : The sound reduction capability of any given door assembly is a combination of the door construction itself and the perimeter sealing system. Unless specifically tested under the conditions of BS EN ISO 10140 it is not possible to determine the actual performance that will be achieved, generally expressed as an "R_w" figure. The above sealing systems, however, have been designed to deliver the maximum possible sound reduction performance, consistent with ease of operation of the door under normal service conditions. With an appropriate door construction, up to 44 dB R_w has been achieved.

Recommended seal combinations :

Hinged single leaf / single acting doors

- (a)** Perimeter seal **MR 1212** in conjunction with threshold seal **MK 8036** - Up to 35 dB R_w
- (b)** Perimeter seal **MR 1212** plus **MK 7020** in conjunction with threshold seal **MK 8036**
- Up to 39 dB R_w
- (c)** Perimeter seal **MR 1212** plus **MA 2610** in conjunction with threshold seal **MA 5417**
- Up to 42 dB R_w
- (d)** Perimeter seal **MR 1212** plus **MA 2610** in conjunction with threshold seal **MA 5417**
and threshold plate **MN 4080** - Up to 44 dB R_w

Hinged double leaf / single acting doors

As above but with the addition of **MK 7061** astragal seal at the meeting stiles

How to order :

For further information please call **01626 83 63 73** or e-mail info@millmerran.co.uk