

CI/SfB	(31)	Ln6
CAW P10		
Uniclass L6631:P91		

Description

ME508 is a non-woven fleece laminate which is self adhesive across the full width of the membrane for optimised adhesion and vapour control. The combination of self-adhesives provide options for installing to the window frame edge (W) or face (E), providing air and weather tightness. Part of the intelligent membrane range, ME508 also benefits from humidity variable vapour permeability.

Colour

Black

Packaging

Item No.	Roll Length	Roll Width	Rolls/Box
500250	25 m	EW-70	4
500251	25 m	EW-100	3
500252	25 m	EW-140	2
500290	25 m	EW-200	1
500540	25 m	EW-250	1

Membrane thickness: 0.5 mm

Technical Information

Property	Test Method	Result
Building Classification	DIN 4102	B2 (normal combustible)
Water Vapour Transmission	DIN EN ISO12572	sd value 0.4 - 20 m
Resistance to Water Penetration	EN 1928	W1
Resistance to Driving Rain	EN 1027	600 Pa
Air Permeability	EN 1026	<0.1 m ³ /[h.m(da Pa)n]
Compatibility with Construction Materials	DIN 52452	Fulfills requirements
UV Stability		6 months prior to covering
Service Temperature		-40°C to +80°C
Application Temperature		-5°C to +40°C
Storage	Store in shaded, dry conditions, not exposed to direct weathering and UV-radiation	
Shelf Life	24 months when stored as recommended in original unopened packaging	
	<ul style="list-style-type: none"> The laminated self-adhesive is at a distance from the edge from 1 to 6 mm Depending on the application temperature or on highly absorbent surfaces, ME902 or ME904 primer can be used to improve adhesion and optimise usage 	

Preparation

- The bonding surfaces must be dry, free of oil, grease, dust and other anti-adhesive components. For guaranteed adhesion it is advisable to use illbruck ME902 primer (note the flash-off time). Similarly, in slightly damp conditions, use ME904 primer.
- Bonding in 'E' format (Fig. 1):- peel off the protective split liner of the self-adhesive on the side of the membrane facing the frame, allowing some slack in the membrane retained within the joint.



ME508

Duo Membrane EW/F

Usage / Purpose

- Used for sealing window connection joints, internally or externally.
- Strong and reliable self-adhesive, allowing bonding to virtually any substrate (e.g. masonry, concrete, PVC, metal, wood, and all usual insulation materials (EPS, XPS, PUR rigid foam)), making application fast and simple.
- Can be used as an internal airtight seal in conjunction with ME501 Duo Window Membrane HD or VV externally, and/or as an external weather-tight seal with 600 Pa driving rain resistance.
- Complies with the "inside tighter than outside" principle in order to facilitate moisture and vapour control.

Key Benefits

- Quick and easy application with split release liner
- Highly flexible fleece
- Weather tight
- Suitable for retrofit
- Initial repositioning possible, bond strength increases over time
- Airtight and vapour tight
- Fully bonded to allow over-plastering without cracking

Duo Membrane EW/F

- Bonding in 'W' format (Fig. 2):- peel off the liner from the narrow self-adhesive and bond to the outer edge of the window frame in a suitable location (to flat profile rather than across profile 'legs'). Must be applied to the window prior to installation.

Primer

- ME508 can be applied without the use of a primer in many circumstances; however, for best results, it is recommended that ME508 is applied with either ME901 or AT140** paint-on primers.
- Use AT140 primer to apply ME508 in ambient temperatures lower than 5°C.
- Use AT140 Primer on friable substrates – note the flash-off time.
- Use AT140 or ME901 Primer in slightly damp conditions.
- ME508 is suitable for bonding to EPS/XPS thermal breaks on balcony support brackets and specialist forms of EPS/XPS building systems such as Nadura Block. The high strength acrylic dispersion adhesive coating used with ME508 does not contain solvents that would otherwise attack the EPS/XPS. If necessary use ME904 solvent free, acrylic copolymer primer.

*** Please read and understand the technical and safety datasheets of these products*

Application

- For external applications, ME508 should be bonded to the weather sheathing board or similar weather line of the wall build-up behind the external skin. If a breather membrane has previously been applied to the backing wall, cut back to the line of where the perimeter membrane will locate against the backing wall to enable bonding directly to the sheathing board (or similar). Ensure all bond zones are free of debris and other material which may affect adhesion such as excess silicone or fire rated compound between sheathing board joints.
- Silicone based sealants and fire rated compounds used to seal butt joints between sheathing boards are a barrier to adhesion for any adhesive. Special preparation is required - please consult with an illbruck representative.
- For internal applications where ME508 is being used as an airtight perimeter seal, the 'E' or 'W' option can be used.

Attachment to the Window - Internal

- Clean the frame as in 'Preparation'.
- Using 'E' format, the window should be installed first. Remove the narrow part of the split liner from the full self-adhesive backing on the reverse (non-printed) face of the membrane and locate the membrane against the internal face of the window with a minimum of 10 mm contact all around (See Fig. 1). It is possible to apply in a continuous length by folding the membrane back on itself at the corners or alternatively, apply four separate strips allowing a 50 mm overlap at each corner and at the start/end sections. Consolidate the bond using a seam roller.
- Using 'W' format (for punched-hole windows), prior to the window being installed, remove the release liner from the

narrow self-adhesive on the printed face of the membrane and locate onto the outside edge of the frame in a suitable location (to flat profile rather than across profile 'legs' (see Fig. 2)). Apply a continuous length around all four sides of the frame. At each corner, allow an extra 20 mm forming a 'loop' and folding the membrane and bonding to itself. When the end section meets the start, allow a 50mm overlap. Once the membrane is applied, connect any fixing brackets as necessary over the membrane.

Attachment to the Window – External

For punched hole windows, the application method is essentially as for internally above

SFS FRAMED & SHEATHED WALLS

(windows projecting forwards into the cavity zone)

- Measure and pre-cut individual lengths of ME508 appropriate to sill, jambs and head to match the window dimensions and the additional overlap at each end equal to the width of the membrane in use.
- Starting at the sill, dry fit the membrane with the release liners still attached and mark the front edge of the membrane at the window extents.
- Fold the membrane upwards to form a 90° angle tucking it up under the sill and the remaining membrane placed against the sheathing board or concrete, also at a 90° angle.
- Make a mark where the lower/outer edge of the membrane will terminate on the sheathing board or other substrate.
- Using an appropriate long straight edge or other device such as a laser level, draw a line to indicate where the membrane will terminate to use as a guide to levelling on the substrate.
- Remove the single, narrower release liner on the non-printed face of the membrane and position the self-adhesive strip on a suitable flat surface of the sill profile (the printed face should be facing the exterior). Bond the membrane to the sill with an ideal minimum 20mm of self-adhesive contact.

Attachment to the Wall

- Now remove the wide dual release liners (one at a time)** and bond the membrane to the sheathing board or other substrate using your marked out line as guide to ensure a neat and level finish. The membrane should now be at a 90° "L" shape with the un-bonded extensions at either end resembling a tube.

*** Membranes with dual release liners: Remove the one adjacent to the narrower strip first. Bed down and bond onto substrate. Then remove second (outer) release liner, bed down and bond onto substrate.*

Duo Membrane EW/F

Forming the First Layer of the Corner Seal

- Starting at one end, and using the printed lines and graphics of the outward face of the membrane as a guide, slit the loose end of the membrane extension along horizontally until it is level with the bottom of the window frame. Take care not to slit too far or too short.
- Slitting will form a flap which will be folded upwards and bonded to the side of the frame at the jamb. The lower remaining section is bonded flat to the substrate.
- Once bonded repeat the same actions on the opposite end.
- Now apply firm pressure with an illbruck AB004 VV seam roller to all membrane surfaces to fully bed down the self-adhesive and remove / flatten any wrinkles on either the window frame profile or construction substrate.

Jambs and Head

- Now remove the wide dual release liners (one at a time)** and bond the membrane to the sheathing board or other substrate using your marked out line as guide to ensure a neat and level finish. The membrane should now be at a 90° "L" shape with the un-bonded extensions at either end resembling a tube.

Alternative Application Strategy

- Sometimes it may be more expedient to form the corners separately to the main run of membrane. In this case, cut a suitable length of ME508 (circa 150mm) and twist the membrane on the narrow self-adhesive strip to form a corner shape. Apply one to each corner of the window, removing each release liner as you apply it to the frame. The ME508 can then be run from corner to corner in single runs, allowing a 50mm overlap onto the pre-applied corners.
- If the window fixing straps interfere with enabling the membrane to be applied in a single run, or if they may prevent the achieving of a satisfactory seal, consider cutting out suitable size patches of membrane and covering the straps. The main run of membrane can then be applied either side of the patches, ensuring appropriate overlap onto the patches (min. 50mm).

Inspecting the Completed Application

- The completed application should resemble a picture frame border to the installed window.
- Check the cuts and folds at all of the corners and ensure that there are no gaps. If any imperfections or small holes are visible cut a small patch from the membrane roll and use it to cover the imperfection.
- Please note that the self-adhesive used with this membrane is very strong and will grab to almost any surface more or less instantly, particularly your gloved hand! For optimum performance, try to minimise hand contact with the exposed self-adhesive layer to prevent it from picking up dust and debris which can reduce the effectiveness of the adhesive bond.

Existing or Pre-applied Breather Membranes

- Re-instate the breather membrane if applicable by sealing the edge joint between the newly applied window membrane and the existing breather membrane using illbruck ME315 Total Protection Tape.

Optional Use of Pre-Moulded 3D Corners

- ME241 EPDM Corners may be used for forming the corner seals.
- See ME241 TDS and method statement for further application details. It is necessary to use illbruck OT015 to bond ME241 to other components and ME508 to ME241.

Please Note

- ME508 should always be installed with the branded non-shiny (fleece) face facing outwards. This is to ensure UV resistance for up to 6 months (and to facilitate over-plastering if required for internal applications). If the shiny face is accidentally installed facing outwards, the air and weather tightness properties will not be affected but the membrane must be covered within 2 weeks to avoid UV degradation. If there are small gaps in the external cladding e.g. between rainscreen panels, this is classed as exposed (an alternative illbruck membrane may be required).
- Do not leave ME508 bonded to the window frame without also being bonded to the structure for more than 72 hours in order to avoid damage to the unsecured membrane by being exposed to UV (to the shiny face) and/or mechanical abrasion due to contact with other components during periods of wind pressure.
- If ME508 has been exposed to UV light over the stipulated tolerances, simply cover over with a further application of ME508.
- For thermal and/or acoustic insulation to the window/construction interface, we recommend illbruck FM330 Pro Foam Air Seal to be applied into the perimeter gap subject to construction details.
- For curtain walling applications, it may be necessary to apply ME508 with an amount of 'play' across the membrane width, i.e. do not bond tightly across the joint but allow excess material so that in the event of movement, the membrane will not be stretched tightly. For applications where significant movement, prolonged soaking or foot traffic to horizontal surfaces is expected, illbruck ME220 EPDM Membrane should be used.
- If intending to apply 'wet' finishes over the membrane, ensure application to the branded non-shiny (fleece) face. For large areas and improved adhesion of the finish, a plaster mesh version of ME508 is available subject to minimum order quantity and 3 – 4 weeks' delivery. Do not employ the 'dot and dab' method of fixing dry lining as the increased thickness and resultant weight of the adhesive will prevent bonding to the membrane.
- Ensure all self-adhesive is fully bonded to the window and structure, and consolidated using a seam roller.

- Take care not to create longitudinal stress during application (avoid stretching along the length). When creating vertical overlaps, bond the upper membrane length onto the lower.

i3 Warranty

Part of the state of the art, ift-approved sealing system, with a 15 year guarantee.* This system fulfils the EnEV requirements with regards to airtightness.

*Under the conditions specified by the manufacturers. Only valid on receipt of the correct registration documents in accordance with terms and conditions, available on request.

Health & Safety Precautions

Safety data sheet must be read and understood before use.

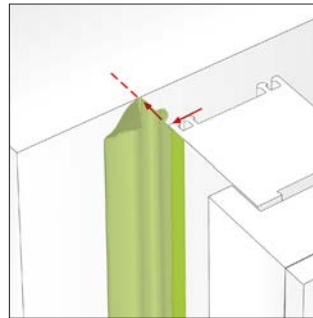


Fig. 1

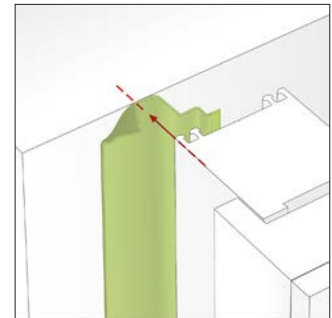


Fig. 2

Technical Service

tremco illbruck has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 01942 251400.

Guarantee / Warranty

tremco illbruck products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with tremco

illbruck written instructions and (b) in any application recommended by tremco illbruck, but which is proved to be defective, will be replaced free of charge.

No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct. tremco illbruck Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.



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