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Agrément Certificate
17/5396
Product Sheet 1 Issue 5

OBEX AIR AND WEATHERTIGHTNESS PRODUCTS

CORTEX EPDM MEMBRANE SYSTEMS

This Agrément Certificate Product Sheet(1) relates to CORTEX EPDM Membrane Systems, for use as airtight and weathertight seals around windows and doors (including door thresholds where standing water and/or hydrostatic pressure may be present), with height restrictions.

(1) Hereinafter referred to as 'Certificate'.

The assessment includes

Product factors:

- compliance with Building Regulations
- compliance with additional regulatory or non-regulatory information where applicable
- evaluation against technical specifications
- assessment criteria and technical investigations
- uses and design considerations

Process factors:

- compliance with Scheme requirements
- installation, delivery, handling and storage
- production and quality controls
- maintenance and repair

Ongoing contractual Scheme elements†:

- regular assessment of production
- formal 3-yearly review

KEY FACTORS ASSESSED

Section 1. Mechanical resistance and stability
Section 2. Safety in case of fire
Section 3. Hygiene, health and the environment
Section 4. Safety and accessibility in use
Section 5. Protection against noise
Section 6. Energy economy and heat retention
Section 7. Sustainable use of natural resources
Section 8. Durability

The BBA has awarded this Certificate to the company named above for the systems described herein. These systems have been assessed by the BBA as being fit for their intended use provided they are installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of Fifth issue: 1 May 2025
Originally certificated on 17 February 2017

Hardy Giesler
Chief Executive Officer

This BBA Agrément Certificate is issued under the BBA's Inspection Body accreditation to ISO/IEC 17020. Sections marked with † are not issued under accreditation.

The BBA is a UKAS accredited Inspection Body (No. 4345), Certification Body (No. 0113) and Testing Laboratory (No. 0357).

Readers MUST check that this is the latest issue of this Agrément Certificate by either referring to the BBA website or contacting the BBA directly.

The Certificate should be read in full as it may be misleading to read clauses in isolation.

Any photographs are for illustrative purposes only, do not constitute advice and should not be relied upon.

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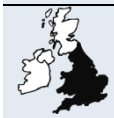
SUMMARY OF ASSESSMENT AND COMPLIANCE

This section provides a summary of the assessment conclusions; readers should refer to the later sections of this Certificate for information about the assessments carried out.

Compliance with Regulations

Having assessed the key factors, the opinion of the BBA is that CORTEX EPDM Membrane Systems, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements of the following Building Regulations:



The Building Regulations 2010 (England and Wales) (as amended)

Requirement:	**B3(4)**	**External fire spread**
Comment:		The systems can contribute to satisfying this Requirement. See section 2 of this Certificate.
Requirement:	**B4(1)**	**External fire spread**
Comment:		The use of the systems is restricted by this Requirement. See section 2 of this Certificate.
Requirement:	**C2(b)**	**Resistance to moisture**
Comment:		The systems will contribute to satisfying this Requirement. See section 3 of this Certificate.
Requirement:	**L1(a)(i)**	**Conservation of fuel and power**
Comment:		The systems can contribute to minimising heat loss at lintels, jambs and sills. See section 6 of this Certificate.
Regulation:	**7(1)**	**Materials and workmanship**
Comment:		The systems are acceptable. See sections 8 and 9 of this Certificate.
Regulation:	**25B**	**Nearly zero-energy requirements for new buildings**
Regulation:	**26**	**CO_2 emission rates for new buildings**
Regulation:	**26A**	**Fabric energy efficiency rates for new dwellings (applicable to England only)**
Regulation:	**26A**	**Primary energy consumption rates for new buildings (applicable to Wales only)**
Regulation:	**26B**	**Fabric performance values for new dwellings (applicable to Wales only)**
Regulation:	**26C**	**Target primary energy rates for new buildings (applicable to England only)**
Regulation:	**26C**	**Minimum energy efficiency rating (applicable to Wales only)**
Comment:		The systems can contribute to satisfying these Regulations. See section 6 of this Certificate.

The Building (Scotland) Regulations 2004 (as amended)

Regulation:	**8(1)**	**Fitness and durability of materials and workmanship**
Comment:		The use of the systems can contribute to satisfying this Regulation. See sections 8 and 9 of this Certificate.
Regulation:	**9**	**Building standards – construction**
Standard:	2.4	Cavities
Comment:		The systems can contribute to satisfying this Standard with respect to clause 2.4.2[(1)(2)]. See section 2 of this Certificate.

Standard:	3.10	Precipitation
Comment:		The systems will resist the effects of driving rain and enable an installation to satisfy this Standard, with reference to clause 3.10.1[(1)(2)]. See section 3 of this Certificate.
Standard:	6.1(b)(c)	Energy demand
Standard:	6.2	Building insulation envelope
Comment:		The systems can contribute to minimising heat loss at lintels, jambs and sills with reference to clauses 6.1.1[(1)], 6.1.2[(2)], 6.1.4[(2)], 6.2.4[(1)] and 6.2.5[(2)] of these Standards. See section 6 of this Certificate.
Standard:	7.1(a)(b)	Statement of sustainability
Comment:		The systems can contribute to satisfying the relevant requirements of Regulation 9, Standards 1 to 6, and therefore will contribute to a construction meeting a bronze level of sustainability as defined in this Standard. In addition, the systems can contribute to a construction meeting a higher level of sustainability as defined in this Standard, with reference to clauses 7.1.4[(1)], 7.1.6[(1)(2)], 7.1.7[(1)]. 7.1.9[(2)] and 7.1.10[(2)]. See section 6 of this Certificate.
Regulation:	**12**	**Building standards - conversion**
Comment:		Comments in relation to the systems under Regulation 9, Standards 1 to 6, also apply to this Regulation, with reference to clause 0.12.1[(1)(2)] and Schedule 6[(1)(2)].

(1) Technical Handbook (Domestic).
(2) Technical Handbook (Non-Domestic).

The Building Regulations (Northern Ireland) 2012 (as amended)

Regulation:	**23(a)(i)**	**Fitness of materials and workmanship**
Comment:	**(iii)(b)(i)(ii)**	The systems are acceptable. See sections 8 and 9 of this Certificate.
Regulation:	**28(b)**	**Resistance to moisture and weather**
Comment:		The systems have adequate resistance to the ingress of rain and wind-driven spray and so can contribute towards the wall satisfying this Regulation. See section 3 of this Certificate.
Regulation:	**35(4)**	**Internal fire spread - structure**
Comment:		The systems can contribute to satisfying this Regulation. See section 2 of this Certificate.
Regulation:	**36(a)**	**External fire spread**
Comment:		The systems are restricted by this Regulation. See section 2 of this Certificate.
Regulation:	**39(a)(i)**	**Conservation measures**
Regulation:	**40(2)**	**Target carbon dioxide emission rate**
Regulation:	**43(1)(2)**	**Renovation of thermal elements**
Regulation:	**43B**	**Nearly zero-energy requirements for new buildings**
Comment:		The systems can contribute to minimising heat loss at lintels, jambs and sills. See section 6 of this Certificate.

Additional Information

NHBC Standards 2025

In the opinion of the BBA, CORTEX EPDM Membrane Systems, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards*, Chapters 6.1 *External masonry walls*, 6.2 *External timber framed walls*, 6.7 *Doors, windows and glazing,* 6.9 *Curtain walling and cladding* and 6.10 *Light steel frame walls and floors.*

Fulfilment of Requirements

The BBA has judged CORTEX EPDM Membrane Systems to be satisfactory for use as described in this Certificate. The systems have been assessed as weathertight and airtight seals around windows and doors (including door thresholds where standing water and/or hydrostatic pressure may be present), with height restrictions.

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the systems under assessment. CORTEX EPDM Membrane Systems consist of:

- CORTEX EPDM Membranes (0500, 0600, 0750, 1000, 1200 and 1500) — unreinforced ethylene propylene diene monomer (EPDM) membranes for use as seals
- CORTEX 0860 Adhesive Backed EPDM Membrane (split release liner) — a self-adhesive, unreinforced membrane for use as a seal
- CORTEX 0761, 0762, 0763, 0764 and 0768 EPDM Membranes with Gasket — unreinforced EPDM membranes for use as seals, with an extruded gasket to attach to window profiles
- CORTEX 0802 EPDM Gasket Carrier — an extruded aluminium profile, with adhesive backing for fixing, for use in conjunction with CORTEX 0761 EPDM Membrane
- CORTEX 0901 External EPDM Corner and CORTEX 0902 Internal EPDM Corner — prefabricated units for detailing
- CORTEX 0751, 0752 and CORTEX 0753 EPDM Membranes — membranes with integral butyl sealant, for use in bonding directly to aluminium substrates without the need for adhesive. CORTEX 0751 has a single butyl strip on one edge of the lower side, CORTEX 0752 has two strips on the lower side on the opposite edges and CORTEX 0753 has two strips one on either side at opposite edges
- CORTEX 0765 and 0766 Paste Adhesive — for use in adhering EPDM to substrates
- CORTEX 0769 Paste Adhesive — for use in sealing at edges of CORTEX 0860 when used in installations that may be exposed to hydrostatic pressure, such as basement exterior doors
- CORTEX 0775 Contact Adhesive — for use in adhering EPDM to substrates, available in a pail
- CORTEX 0776 Contact Adhesive — for use in adhering EPDM to substrates, available in a spray canister
- CORTEX 0814 Tape — a low-density polyethylene adhesive tape with reinforcing scrim for use in sealing joints in various building boards including cement particle board, calcium silicate board, plywood and flexible vapour control layers
- CORTEX 0801 Termination Bar — a black PVC-U profile for use in securing the header tape.

The membranes have the nominal characteristics given in Table 1.

Table 1 Nominal characteristics

CORTEX membrane grade	Thickness of membrane (mm)	Length (m)	Width (mm)	Mass per unit area ($kg \cdot m^{-2}$)
CORTEX EPDM Membrane				
0500	0.50	20	50 to 1500	0.51
0600	0.60	20	50 to 1500	0.61
0750	0.75	20	50 to 1500	0.77
1000	1.00	20	50 to 1500	1.02
1200	1.20	20	50 to 1500	1.22
1500	1.50	20	50 to 1500	1.53
CORTEX 0860 Adhesive Backed EPDM Membrane (split release liner)	0.75 total thickness	20	50 to 1500	0.61
CORTEX EPDM Membranes with Gasket				
0761	1.00	20	50 to 1500	1.02
0762	1.00	20	50 to 1500	1.02
0763	1.00	20	50 to 1500	1.02
0764	1.00	20	50 to 1500	1.02
0768	1.00	20	50 to 1500	1.02
CORTEX 0751/0752/0753 EPDM Membranes	0.75	20	50 to 1500	0.77

Ancillary Items

The following ancillary items are essential to use with the systems and have been assessed with the systems:

- CORTEX 0785 Primer — for use in surface preparation of porous substrates prior to application of adhesives and CORTEX 0860 Adhesive Backed EPDM Membrane (split release liner)
- CORTEX 0786 Spray Primer — for use in surface preparation of porous substrates prior to application of adhesives and CORTEX 0860 Adhesive Backed EPDM Membrane (split release liner)
- butyl strip — applied to the EPDM for adhering to specific substrates.

The Certificate holder recommends the following ancillary items for use with the systems, but these materials have not been assessed by the BBA and are outside the scope of this Certificate:

- CORTEX 0795 Cleaning Wash — for use in surface preparation
- CORTEX 0815 Right-Angle Gasket Carrier — an extruded aluminium profile, mechanically fastened to window frames, for use in conjunction with CORTEX 0761 EPDM Membrane
- air and vapour control layer (AVCL).

Applications

The systems are intended for use on the following substrates:

- PVC-U
- wood
- aluminium
- galvanized steel
- concrete
- masonry
- cementitious renders
- cement particle board
- cement fibre board.

The following systems can be used in specifications that may be subject to hydrostatic pressure, such as basement exterior doors and door thresholds subject to long term water exposure:

- CORTEX EPDM membranes using CORTEX 0765 Paste Adhesive to bond to the above listed substrates and polyethylene faced tanking membranes
- CORTEX 0860 with the edges of membrane sealed using CORTEX 0769 Paste Adhesive. The membrane is for use on the above listed substrates and polyethylene faced tanking membranes.

Product assessment – key factors

The systems were assessed for the following key factors, and the outcome of the assessments is shown below. Conclusions relating to the Building Regulations apply to the whole of the UK unless otherwise stated.

1 Mechanical resistance and stability

Not applicable.

2 Safety in case of fire

Data were assessed for the following characteristics.

2.1 Reaction to fire

2.1.1 The results of reaction to fire tests and classifications are given in Table 2.

Table 2 Reaction to fire

Product assessed	Assessment method	Requirement	Result[1]
CORTEX 500 EPDM	Reaction to fire tested to BS EN ISO 11925-2 : 2010 and classified to BS EN 13501-1 : 2007	Classification achieved	Classification E[2]
CORTEX 1200 EPDM			Classification E[2]

(1) Classification Report reference 11/2217-136, Part 2, issued by LGAI Technological Center, S.A, copies available from the Certificate holder on request.

(2) This classification also applies to products of the same material with a thickness w ≥ 0.5 to ≤ 1.2 mm.

2.1.2 On the basis of data assessed, CORTEX EPDM Membrane Systems may be restricted in use by the documents supporting the national Building Regulations.

2.1.3 In England, Wales and Northern Ireland, the system must not be used on buildings that have a storey at least 18 m above ground level and which contain one or more dwellings, an institution, a room for residential purposes (excluding, in Wales and Northern Ireland only, any room in a hostel, hotel or boarding house), student accommodation, care homes, sheltered housing, hospitals or dormitories in boarding schools and, additionally in Northern Ireland, nursing homes and places of lawful detention.

2.1.4 In Scotland, the use of the systems is unrestricted in terms of height and proximity to a relevant boundary. However, restrictions on the overall construction may apply, depending on the reaction to fire classification achieved by the complete system, which must be established on a case-by-case basis.

2.1.5 Designers must refer to the relevant national Building Regulations and guidance for detailed conditions of use, particularly in respect of requirements for substrate fire performance, cavity barriers, service penetrations and combustibility limitations for other materials and components used in the overall construction.

3 Hygiene, health and the environment

Data were assessed for the following characteristics.

3.1 Weathertightness

3.1.1 Results of weathertightness tests are given in Table 3.

Table 3 Weathertightness

Product assessed	Assessment method	Requirement	Result
CORTEX 1000 EPDM using CORTEX 0765 Paste Adhesive	Watertightness to BS EN 1027 : 2000	≥ 600 Pa	Pass
CORTEX 500 EPDM jointed to self-adhesive polyethylene tanking membrane using CORTEX 0765 Paste Adhesive	Watertightness to BS EN 1928 : 2000, Method A 6 m head 24 hours	No leakage	Pass
CORTEX 0860 jointed to self-adhesive polyethylene tanking membrane and edges of membrane sealed using CORTEX 0769 Paste Adhesive			Pass
CORTEX 500 EPDM jointed to self-adhesive polyethylene tanking membrane using CORTEX 0765 Paste Adhesive	Shear resistance of joints to BS EN 12317 : 2010	≥ 50 N·(50 mm)$^{-1}$	Pass
CORTEX 500 EPDM jointed to self-adhesive polyethylene tanking membrane using CORTEX 0775 Contact Adhesive			Pass
CORTEX 0860 jointed to self-adhesive polyethylene tanking membrane and edges of membrane sealed using CORTEX 0769 Paste Adhesive			Pass
CORTEX 500 EPDM jointed to self-adhesive polyethylene tanking membrane using CORTEX 0765 Paste Adhesive	Peel resistance of joints to BS EN 12316-2 : 2013	≥ 25 N·(50 mm)$^{-1}$	Pass
CORTEX 0860 jointed to self-adhesive polyethylene tanking membrane and edges of membrane sealed using CORTEX 0769 Paste Adhesive			Pass
CORTEX 1000 EPDM using CORTEX 0765 Paste Adhesive bonded to PVC-U	Resistance to peel from the support to MOAT 64 : 4.3.3 : 2001	≥ 25 N·(50 mm)$^{-1}$	Pass
CORTEX 500 EPDM using CORTEX 0765 Paste Adhesive bonded to			
- aluminium			Pass
- concrete			Pass
CORTEX 0860 bonded to			
- PVC-U			Pass
- aluminium			Pass
- concrete			Pass
CORTEX 0814 bonded to plywood			Pass

3.1.2 The resistance to peel from masonry, wood and plastics was assessed using test data from representative related products.

3.1.3 On the basis of data assessed, the systems will resist the passage of water, wind-driven rain and dust into the interior of a building.

3.1.4 The systems satisfy the Class 9A requirements of BS EN 12208 : 2000.

3.2 Resistance to mechanical damage

3.2.1 The result of a resistance to mechanical damage test is given in Table 4.

Table 4 Resistance to mechanical damage

Product assessed	Assessment method	Requirement	Result
CORTEX 0762	Tear off resistance of co-extruded gasket	Value achieved	113 N

3.2.2 Tensile properties, nail tear, static indentation, dynamic indentation, dimensional stability and fatigue cycling were assessed using test data from representative related products.

3.2.3 On the basis of data assessed, the systems are suitably robust and will not be damaged during installation provided that reasonable care is taken.

4 Safety and accessibility in use

Not applicable.

5 Protection against noise

Not applicable.

6 Energy economy and heat retention

Data were assessed for the following characteristics.

6.1 Conservation of fuel and power

6.1.1 The result of an airtightness testis given in Table 5.

Table 5 Airtightness

Product assessed	Assessment method	Requirement	Result
CORTEX 1000 EPDM using CORTEX 0765 Paste Adhesive	Airtightness to BS EN 1026 : 2000	600 Pa	Pass

6.1.2 The systems are air barriers and, when installed correctly, can contribute to junctions, minimising heat loss by unplanned air infiltration. The air infiltration classification according to BS EN 12207 : 2016 for suitable windows used in combination with the systems components will be Class 4. Guidance documents in this respect are found in the documents supporting the national Building Regulations.

6.1.3 When used and installed in accordance with this Certificate and the Certificate holder's instructions, the systems can contribute towards an exterior building envelope satisfying a minimum air leakage of less than 1 $m^3 \cdot hr^{-1} \cdot m^{-2}$ at 50 Pa, and also less than 0.6 air change per hour at 50 Pa for passive houses.

7 Sustainable use of natural resources

Not applicable.

8 Durability

8.1 The potential mechanisms for degradation and the known performance characteristics of the materials in the systems were assessed.

8.2 Specific test data were assessed as given in Table 6.

Table 6 Durability

Product assessed	Assessment method	Requirement	Result
CORTEX 500 EPDM jointed to self-adhesive polyethylene tanking membrane using CORTEX 0765 Paste Adhesive	Watertightness to BS EN 1928 : 2000, Method A 6 m head 24 hours Water exposure for 56 days at 23°C	No leakage	Pass
CORTEX 0860 jointed to self-adhesive polyethylene tanking membrane and edges of membrane sealed using CORTEX 0769 Paste Adhesive			Pass
CORTEX 500 EPDM jointed to self-adhesive polyethylene tanking membrane using CORTEX 0765 Paste Adhesive	Shear resistance of joints to BS EN 12317 : 2010 Water exposure for 56 days at 23°C	≥ 50 N·(50 mm)$^{-1}$	Pass
CORTEX 0860 jointed to self-adhesive polyethylene tanking membrane and edges of membrane sealed using CORTEX 0769 Paste Adhesive			Pass
CORTEX 1000 EPDM using CORTEX 0765 Paste Adhesive bonded to PVC-U	Resistance to peel from the support to MOAT 64 : 4.3.3 : 2001 Heat aged for 56 days at 80°C	≥ 25 N·(50 mm)$^{-1}$	Pass
CORTEX 0860 bonded to PVC-U	Heat aged for 56 days at 80°C		Pass
CORTEX 0814 bonded to plywood	Heat aged for 28 days at 80°C		Pass
CORTEX 500 EPDM using CORTEX 0765 Paste Adhesive bonded to - aluminium - concrete	Water exposure for 56 days at 23°C	≥ 15 N·(50 mm)$^{-1}$	 Pass Pass
CORTEX 0860 bonded to - aluminium - concrete	Water exposure for 56 days at 23°C		 Pass Pass
CORTEX 0762	Tear off resistance of co-extruded gasket Heat aged for 56 days at 80°C	Satisfactory retention of properties	Pass

8.3 for the systems' tensile properties were assessed from test data for representative related products.

8.4 Service life

Under normal service conditions, the systems will have a life at least equivalent to the frame in which they are incorporated, provided they are designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.

PROCESS ASSESSMENT

Information provided by the Certificate holder was assessed for the following factors:

9 Design, installation, workmanship and maintenance

9.1 Design

9.1.1 The design process was assessed by the BBA and the following requirements apply in order to satisfy the performance assessed in this Certificate.

9.1.2 The risk of interstitial condensation will depend on the construction and must be assessed for each project.

9.1.3 The systems will not adversely affect the risk of interstitial condensation, provided they are used in conjunction with a suitable AVCL.

9.2 Installation

9.2.1 Installation instructions provided by the Certificate holder were assessed and judged to be appropriate and adequate.

9.2.2 Installation must be carried out in accordance with this Certificate and the Certificate holder's instructions. A summary of instructions and guidance are provided in Annex A of this Certificate.

9.2.3 When using bonded components, substrates must be clean, dry and free of loose material prior to the installation of the component, to ensure an effective adhesive bond.

9.2.4 Application of the adhesives must be carried out between temperatures of 5 to 35°C.

9.2.5 On porous substrates, such as brick or concrete, the minimum width of bonded membrane surrounding the frame is 100 mm. For non-porous substrates, the recommended width is approximately 20 to 30 mm. The head detail for all substrates is a minimum 100 mm overlap onto the substrate.

9.2.6 Where it is proposed that installation on porous substrates is to take place without priming, bond testing must be carried out to ascertain whether a sufficient bond is achievable. Failure to meet the required bond strength will require that the substrate is primed.

9.2.7 Where priming is required, the total substrate area to which the membranes are to be applied is coated, ensuring a full even coverage, without excess primer. The applied primer is left until touch dry, in normal conditions approximately 10 minutes, prior to application of the adhesive or CORTEX 0860 Adhesive Backed EPDM Membrane. Coverage rates are given in Table 7.

Table 7 Primer coverage rates

Primer	Coverage rate ($m^2 \cdot l^{-1}$)
CORTEX 0785 Primer	5
CORTEX 0786 Spray Primer	10 to 13

9.2.8 Irrespective of installation method, the membranes must be tension free once installed.

9.2.9 Bonding of the membranes, other than CORTEX 0860 Adhesive Backed EPDM Membrane, is achieved by use of either an adhesive paste or contact adhesive. The Certificate holder's recommendations on compatibility of the adhesive with other building materials must be followed and in cases of doubt the Certificate holder should be consulted, such advice is outside the scope of the Certificate.

9.2.10 The paste adhesives are applied to the frame and surrounding area to which the membrane is to be bonded using an application gun and spread evenly over the substrates. The membrane is applied and rolled with a silicone or similar suitable roller to ensure the maximum bond.

9.2.11 When using the contact adhesives, the adhesive is applied by brush or roller to the frame and surrounding area to which the membrane is to be bonded, including both the substrate and the membrane bonded face. The adhesive is left until touch dry, in normal conditions approximately 10 to 15 minutes, before the membrane is pressed firmly and rolled with a silicone or similar suitable roller to ensure the maximum bond.

9.2.12 CORTEX 0860 Adhesive Backed EPDM Membrane is installed by removal of the release paper and firmly pressing down and rolled on to the substrate.

9.2.13 CORTEX 0751, 0752 and 0753 EPDM Membranes are for use with glazing units with frames. The integral butyl strips are bonded to the aluminium frame and the membranes are bonded to the surrounding substrate by the same methods as the standard membranes (see sections 9.2.11 and 9.2.12).

9.2.14 CORTEX 0761, 0762, 0763, 0764 and 0768 EPDM Membranes with integral gaskets are installed in conjunction with CORTEX 0802 EPDM Gasket Carrier and CORTEX 0815 Right-Angle Gasket Carrier or into the channel on the frame. The membranes are bonded to the surrounding substrate by the same methods as the standard membranes (see sections 9.2.11 and 9.2.12).

9.2.15 Where necessary, at or below ground level the systems must be linked to the damp-proof course/damp-proof membrane/tanking, for example at door thresholds, to ensure the watertightness of the construction. The Certificate holder can advise on requirements for specific applications, but such advice is outside of the scope this Certificate.

9.2.16 Where required, CORTEX 0901 External EPDM Corner or CORTEX 0902 Internal EPDM Corner are installed using one of the adhesives.

9.2.17 The edges of the membranes and corner units are sealed using a bead of paste adhesive. The adhesive is spread to ensure that the membranes and corner units have no open edges.

9.2.18 The external cladding is installed once the system installation is completed.

9.3 Workmanship

Practicability of installation was assessed by the BBA on the basis of the Certificate holder's information. To achieve the performance described in this Certificate, installation of the systems must be carried out by a trained, competent general builder experienced with these types of systems.

9.4 Maintenance and repair

9.4.1 As the systems are confined within the final construction and have suitable durability, maintenance is not required.

9.4.2 Any damage to the systems must be repaired as soon as possible, and before the installation of the outer facade. The membranes may be repaired by applying a patch of membrane over the damaged area. In case of doubt, advice on a suitable repair method should be sought from the Certificate holder, but such advice is outside the scope of this Certificate.

10 Manufacture

10.1 The production processes for the systems have been assessed, and provide assurance that the quality controls are satisfactory according to the following factors:

10.1.1 The manufacturer has provided documented information on the materials, processes, testing and control factors.

10.1.2 The quality control operated over batches of incoming materials has been assessed and deemed appropriate and adequate.

10.1.3 The quality control procedures and product testing to be undertaken have been assessed and deemed appropriate and adequate.

10.1.4 The process for management of non-conformities has been assessed and deemed appropriate and adequate.

10.1.5 An audit of each production location was undertaken, and it was confirmed that the production process was in accordance with the documented process, and that equipment has been properly tested and calibrated.

† 10.2 The BBA has undertaken to review the above measures on a regular basis through a surveillance process, to verify that the specifications and quality control operated by the manufacturer are being maintained.

11 Delivery and site handling

11.1 The Certificate holder stated that the membrane components are delivered to site in packaging bearing the product code, product description, product name, production date and batch number. The inner and outer packaging bears the BBA logo incorporating the number of this Certificate.

11.2 The non-membrane products are packaged as shown in Table 8. The packaging bears the product code, product description, product name, production date, batch number and the BBA logo incorporating the number of this Certificate.

Table 8 Packaging for non-membrane products

Product	Packaging	Unit type	Unit size	Number of units per pack
CORTEX 0801 Termination Bar	Box	Length of profile	18 mm x 3 mm by 3 m	25
CORTEX 0802 EPDM Gasket Carrier	—	Length of profile	3 m length	1
CORTEX 0815 Right-Angle Gasket Carrier	—	Length of profile	3 m length	1
CORTEX 0901 External EPDM Corner	Box	—	—	40
CORTEX 0902 Internal EPDM Corner	Box	—	—	40
CORTEX 0765 Paste Adhesive	Box	Cartridge	600 ml	24
CORTEX 0766 Paste Adhesive	Box	Cartridge	600 ml	24
CORTEX 0769 Paste Adhesive	Box	Cartridge	600 ml	12
CORTEX 0775 Contact Adhesive	Box	Pail	5 l	2
CORTEX 0776 Contact Adhesive	Box	Pressurised canister	6.5 l	1
CORTEX 0785 Primer	Box	Pail	4 l	1
CORTEX 0786 Spray Primer	Box	Can	500 ml	12
CORTEX 0814 Tape	Box	Roll	50 mm x 25 m	24
			60 mm x 25 m	20
			75 mm x 25 m	16
			100 mm x 25 m	12
			150 mm x 25 m	8

11.3 Delivery and site handing must be performed in accordance with the Certificate holder's instructions and this Certificate, including:

11.3.1 All components must be stored under cover on a dry, even surface.

†ANNEX A – SUPPLEMENTARY INFORMATION

Supporting information in this Annex is relevant to the systems but has not formed part of the material assessed for the Certificate.

Construction (Design and Management) Regulations 2015
Construction (Design and Management) Regulations (Northern Ireland) 2016

Information in this Certificate may assist the client, designer (including Principal Designer) and contractor (including Principal Contractor) to address their obligations under these Regulations.

CLP Regulations

The Certificate holder has taken the responsibility of classifying and labelling the components under the *GB CLP Regulation* and *CLP Regulation (EC) No 1272/2008 - classification, labelling and packaging of substances and mixtures*. Users must refer to the relevant Safety Data Sheet(s).

Additional information on installation

A.1 If porous substrates require priming, either CORTEX 0785 Primer or CORTEX 0786 Spray Primer are used. In cases of doubt the Certificate holder's advice should be sought, but such advice is outside the scope of this Certificate.

A.2 Joints and fixing points in sheathing boards can be sealed using CORTEX 0814 Tape.

A.3 The Certificate holder's recommendations on compatibility of the adhesives with other building materials must be followed. In cases of doubt the Certificate holder should be consulted but such advice is outside the scope of this Certificate.

A.4 When using the wider membranes, it may be necessary to temporarily fix the membrane until the adhesive is sufficiently cured to maintain the membrane in position.

A.5 When bonding the membrane to the frames offsite, CORTEX 0801 Termination Bar can be used to mechanically fix the membrane in place.

A.6 The upper edge of the termination bar is sealed using a bead of paste adhesive at a 45° angle. The adhesive is tooled off to ensure a watertight seal.

Bibliography

BS EN 1026 : 2000 *Windows and doors — Air permeability — Test method*

BS EN 1027 : 2000 *Windows and doors — Watertightness — Test method*

BS EN 1928 : 2000 *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roof waterproofing — Determination of watertightness*

BS EN 12207 : 2016 *Windows and doors — Air permeability — Classification*

BS EN 12208 : 2000 *Windows and doors — Watertightness — Classification*

BS EN 12316-2 : 2013 *Flexible sheets for waterproofing — Determination of peel resistance of joints — Plastic and rubber sheets for roof waterproofing*

BS EN 12317 : 2010 *Flexible sheets for waterproofing — Determination of shear resistance of joints — Plastic and rubber sheets for roof waterproofing*

BS EN 13501-1 : 2007 + 2009 *Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests*

BS EN ISO 11925-2 : 2010 *Reaction to fire tests — Ignitability of products subjected to direct impingement of flame — Single-flame source test*

MOAT 64 : 2001 *UEAtc Technical Guide for the for the Assessment of Roof Waterproofing Systems made of Reinforced APP or SBS Polymer Modified Bitumen Sheets*

Conditions of Certificate

Conditions

1 This Certificate:

- relates only to the product that is named and described on the front page
- is issued only to the company, firm, organisation or person named on the front page – no other company, firm, organisation or person may hold or claim that this Certificate has been issued to them
- is valid only within the UK
- has to be read, considered and used as a whole document – it may be misleading and will be incomplete to be selective
- is copyright of the BBA
- and any matter arising out of or in connection with it or its subject matter (including non-contractual disputes or claims) is governed by and construed in accordance with the law of England and Wales
- the courts of England and Wales shall have exclusive jurisdiction to settle any matter arising out of or in connection with this Certificate or its subject matter (including non-contractual disputes or claims).

2 Publications, documents, specifications, legislation, regulations, standards and the like referenced in this Certificate are those that were current and/or deemed relevant by the BBA at the date of issue or reissue of this Certificate.

3 This Certificate will be displayed on the BBA website, and the Certificate Holder is entitled to use the Certificate and Certificate logo, provided that the product and its manufacture and/or fabrication, including all related and relevant parts and processes thereof:

- are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA
- continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine
- are reviewed by the BBA as and when it considers appropriate.

4 The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is provided.

5 In issuing this Certificate the BBA is not responsible and is excluded from any liability to any company, firm, organisation or person, for any matters arising directly or indirectly from:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product or any other product
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product
- actual installations of the product, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product, including its manufacture, supply, installation, use, maintenance and removal
- any claims by the manufacturer relating to UKCA marking and CE marking.

6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product which is contained or referred to in this Certificate is the minimum required to be met when the product is manufactured, supplied, installed, used, maintained and removed. It does not purport in any way to restate the requirements of the Health and Safety at Work etc. Act 1974, or of any other statutory, common law or other duty which may exist at the date of issue or reissue of this Certificate; nor is conformity with such information to be taken as satisfying the requirements of the 1974 Act or of any statutory, common law or other duty of care.

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