

Specialist Tiling Supplies

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Agrément Certificate
08/4575
Product Sheet 1

SPECIALIST TILING SUPPLIES NO MORE PLY TILE BACKER BOARDS

NO MORE PLY TILE BACKER BOARDS

PRODUCT SCOPE AND SUMMARY OF CERTIFICATE

This Certificate relates to No More Ply Tile Backer Boards for use as intermediate substrates for the internal application of ceramic and natural stone tiles.

AGRÉMENT CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.



KEY FACTORS ASSESSED

Properties in relation to fire — the products do not change the fire resistance of the wall on which they are installed (see section 5).

Resistance to mechanical damage — the products will accept the normal impacts likely to occur in service (see section 6).

Durability — the products have acceptable durability and will have a service life equal to that of the structure onto which they are fixed (see section 9).

The BBA has awarded this Agrément Certificate to the company named above for the products described herein. These products 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

Simon Wroe
Head of Approvals — Materials

Greg Cooper
Chief Executive

Date of First issue: 1 August 2008

The BBA is a UKAS accredited certification body — Number 113. The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at www.bbacerts.co.uk

Readers are advised to check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA direct.

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Regulations

In the opinion of the BBA, No More Ply Tile Backer Boards, if used in accordance with the provisions of this Certificate, will meet or contribute to meeting the relevant requirements of the following Building Regulations:



The Building Regulations 2000 (as amended) (England and Wales)

Requirement:	B2(1)	Internal fire spread (linings)
Comment:		The products are unrestricted by this requirement. See sections 5.1 to 5.4 of this Certificate.
Requirement:	Requirement 7	Materials and workmanship
Comment:		The products are acceptable. See section 9 and the <i>Installation</i> part of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)(2)	Fitness and durability of materials and workmanship
Comment:		The use of the products satisfy the requirements of this Regulation. See sections 8 and 9 and the <i>Installation</i> part of this Certificate.
Regulation:	9	Building standards – construction
Standard:	2.5	Internal linings
Comment:		The products satisfy the requirements of this Standard, with reference to clauses 2.5.1 ⁽¹⁾⁽²⁾ and 2.5.2 ⁽¹⁾⁽²⁾ . See sections 5.1 to 5.4 of this Certificate.
Regulation:	12	Building standards – conversions
Comment:		All comments given for this product under Regulation 9, 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) 2000 (as amended)

Regulation:	B2	Fitness of materials and workmanship
Comment:		The products are acceptable. See section 9 and the <i>Installation</i> part of this Certificate.
Regulation:	B3(2)	Suitability of certain materials
Comment:		The products do not normally require maintenance. See section 8 of this Certificate.
Regulation:	E3(a)	Internal fire spread – linings
Comment:		The products satisfy the requirements of this Regulation. See sections 5.1 to 5.4 of this Certificate.

Construction (Design and Management) Regulations 2007

Construction (Design and Management) Regulations (Northern Ireland) 2007

Information in this Certificate may assist the client, CDM co-ordinator, designer and contractors to address their obligations under these Regulations.

See section: 2 Description (2.1, 2.2, 2.4 and 2.5).

Non-regulatory Information

NHBC Standards 2007

NHBC accepts the use of No More Ply Tile Backer Boards, when installed and used in accordance with this Certificate, in relation to *NHBC Standards*, Chapter 8.2 *Wall and ceiling finishes*, Clauses M3 *Plasterboard and dry lining* and M4 *Ceramic wall tiling*.

Zurich Building Guarantee Technical Manual 2007

In the opinion of the BBA, No More Ply Tile Backer Boards, when installed and used in accordance with this Certificate, satisfy the requirements of the *Zurich Building Guarantee Technical Manual*, Section 5 *Internal/external works, services & finishes*, Sub-section *Walls, (finishes)*.

General

This Certificate relates to No More Ply Tile Backer Boards for use as intermediate substrates for the internal application of ceramic and natural stone tiles.

Technical Specification

1 Description

1.1 No More Ply Tile Backer Boards are fibre-reinforced cement sheets available in the sizes and nominal characteristics given in Table 1.

Table 1 Nominal dimensions and characteristics

Product	No More Ply (6 mm)	No More Ply (9 mm)
Colour	Grey	Grey
Thickness (mm)	6 ($\pm 5\%$)	9 ($\pm 5\%$)
Width (m)	600	900
Length (m)	1200	1200
Max board weight (kg)	6.5	14.5
Bending strength ⁽¹⁾ (dry) (MPa)		
longitudinal	≥ 17	≥ 10
transverse	≥ 15	≥ 9

(1) Based on results of BBA tests carried out in accordance with BS EN 12467 : 2004.

1.2 The products are manufactured by a batch blending operation, followed by the Hatchek process and high-pressure steam autoclaving. Quality control is maintained over raw materials, during processing and on the final product.

1.3 Ancillary materials for use with the products include:

- No More Ply self-drilling screws – available in 25 mm and 38 mm sizes with a 7.5 mm diameter countersunk head
- No More Ply Megastrength adhesive – a one-component polyurethane adhesive for use when fixing No More Ply backer boards to timber floors, available in 310 ml tubes
- No More Ply SBR primer available in 1 litre and 5 litre packs
- waterproof ceramic tile adhesives to BS EN 12004 : 2001
- waterproof grout to BS EN 13888 : 2002.

2 Delivery and site handling

2.1 The boards are delivered on wrapped pallets holding up to 170 (6 mm thick) boards and 100 (9 mm thick) boards with a maximum pallet weight of 1200 kg. The boards can be offloaded either by mechanical handling equipment or manually removing individual boards.

2.2 The sheets should be stored flat, under cover, and on a dry, level surface ensuring that loose boards are stacked in a stable manner and not exceeding 1 m in height.

2.3 Each sheet is marked with the trade name 'No More Ply'.

2.4 The boards include crystalline silica and reference should be made to EH40/2002 *Occupational Exposure Limits*, 2002. In particular, when cutting, drilling or sanding in confined areas, dust levels should be controlled using suitable extraction equipment.

2.5 No More Ply Megastrength adhesive and No More Ply SBR Primer must be stored under dry conditions and protected from frost and high temperatures. The manufacturer's Material Safety Data Sheets should be consulted to ensure the safe use of the products.

Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on No More Ply Tile Backer Boards.

Design Considerations

3 Use

3.1 No More Ply Tile Backer Boards are satisfactory for use on walls and floors as an intermediate substrate to ceramic and natural stone tiling for internal use.

3.2 They are suitable as part of a system comprising tiles, waterproof tile adhesive and grout, to form a stable, water-resistant tile substrate in showers, bathrooms and wet areas (excluding shower floors).

3.3 Walls and sub-floors to be tiled should comply with the requirements of BS 5385-1 : 1995 and BS 5385-3 : 2007 respectively, including the provision of movement joints as appropriate. Where necessary, reference should also be made to BS 5385-4 : 1992.

4 Practicability of installation

The products can be installed by competent operatives.

5 Properties in relation to fire



5.1 The boards will not adversely change the fire resistance of the wall on which they are installed.

5.2 When tested to BS 476-6 : 1989, a sample of the 6 mm thick No More Ply backer board gave a fire propagation index (I) of 1.6 and sub-index (i_1) of 1.4.

5.3 When tested to BS 476-7 : 1997, a sample of the 6 mm thick No More Ply backer board achieved a Class 1 result.

5.4 Therefore, the product is classified as Class 0 or 'low risk' as defined in the various national Building Regulations.

6 Resistance to mechanical damage

6.1 When tested in accordance with BBA test methods, a tiled 6 mm thick board satisfied the requirements for a Category I_2 opaque vertical component as defined in Table 3.2 of MOAT No 43 : 1987.

6.2 The test results indicate that the boards can accept without damage the normal impacts likely to occur in service.

6.3 Wall-mounted fittings should be fixed through the board into the wall behind using suitable fixings. The recommendations of the manufacturer should be followed.

7 Thermal conductivity

For calculation purposes the thermal conductivity (λ value) of the 9 mm thick board should be taken as $0.41 \text{ Wm}^{-1}\text{K}^{-1}$.

8 Maintenance



As the boards are inaccessible and have suitable durability (see section 9), maintenance is not required. However, it must be ensured that damage occurring before enclosure is repaired (see section 13).

9 Durability



Provided the boards are used and installed in accordance with this Certificate and the manufacturer's instructions, and are fixed to suitable, stable and durable backgrounds, they should have a life equal to that of the structure onto which they are fixed.

Installation

10 General

10.1 No More Ply Tile Backer Boards are for installation on internal walls and over existing floors of new and existing buildings, in accordance with the provisions of this Certificate and the Certificate holder's instructions, by suitably experienced personnel.

10.2 The boards can easily be cut by scoring with a carbide-tipped knife, and snapping upwards along the score line. The 9 mm thick boards may require three or four scores before snapping.

10.3 Larger irregular shapes and curves can be cut using a jig saw. Smaller cuts, eg around pipes can be made using tile nippers.

11 Procedure

Floor installations

Wood floors

11.1 Existing wooden floors must be firmly screwed down and swept clean.

11.2 If the existing floor is uneven a bedding adhesive, may be required. The Certificate holder's advice should be sought for suitable products.

11.3 Two small beads, approximately 6 mm wide, of No More Ply Megastrength adhesive are evenly spread around the board to be fixed and the board laid in position.

11.4 The boards are then bedded down into the adhesive and screwed down using No More Ply self-drilling screws. Fixings must be set flush with the surface of the board at between 150 mm and 200 mm centres and set-back approximately 25 mm from the edges and 50 mm from corners.

11.5 A bead of No More Ply Megastrength adhesive is then be applied around the edge of the laid board. Remaining boards are fixed in the same way ensuring that joints between the boards are staggered.

Concrete floors

11.6 The floor must be swept clean and any deep hollows or protrusions repaired and/or removed to form a level surface. The Certificate holder's advice must be sought on suitable repair compounds.

11.7 To improve adhesion, the floor and both sides of the boards must be primed with No More Ply SBR primer, diluted one to three parts with water.

11.8 The floor is coated with a single-component, rapid-set bedding adhesive and the boards laid ensuring the edges are staggered. The Certificate holder's advice should be sought on suitable adhesives.

11.9 When the adhesive has set, the boards should be swept clean ready for tiling.

Wall installations

Timber stud walls

11.10 Boards may be installed horizontally or vertically, using No More Ply Megastrength adhesive on the frame members and 38 mm⁽¹⁾ long No More Ply screws. Fixings should be set flush with the surface, at between 150 mm and 200 mm centres, and set back at least 15 mm from the board edges and 50 mm back from corners.

11.11 Board perimeters and joints must be directly supported by the timber-frame members.

11.12 A wet-area sealant complying with the requirements of BS 6213 : 2000 and BS ISO 11600 : 2003 is applied at corner junctions of boards and tiles.

(1) Longer screws of the same type may be used where necessary.

Solid walls

11.13 Wall should be dry although the boards can be fixed over slightly damp surfaces.

11.14 The 6 mm thick boards may be fixed over new and old brickwork, plastered or previously tiled walls using No More Ply Megastrength adhesive or a single-component rapid-set bedding adhesive.

11.15 The wall and both sides of the boards must be primed with No More Ply SBR primer, diluted one to three parts with water.

11.16 Adhesive should be evenly dotted around the board and pressed against the wall. In some applications, plugging and screwing may be required to support the boards.

12 Tiling

12.1 The surface of the primed boards should be wiped with a damp sponge to remove residual dirt and dust.

12.2 Joints between boards should be filled with the tile adhesive.

12.3 Tiles should then be installed and grouted in accordance with the tile manufacturer's instructions, BS 5385-1 : 1995, BS 5385-3 : 2007 and BS 5385-4 : 1992 and conventional good practice.

12.4 On non-rigid floors a flexible adhesive should be used. The advice of the Certificate holder must be sought for suitable products.

13 Repair

Under normal conditions of occupancy, the boards are unlikely to suffer damage, but should it occur repairs are carried out by replacing damaged boards and re-tiling.

Technical Investigations

14 Tests

Tests were carried out to determine:

- water absorption
- resistance to soft-body impact
- effect of humidity and exposure to water
- resistance to hard-body impact
- tensile bond strength to ceramic tiles
- pull-through strength of fixings.

15 Investigations

15.1 Examination was made of existing data relating to:

- fire propagation to BS 476-6 : 1989
- thermal conductivity to BS EN 12664 : 2001.
- surface spread of flame to BS 476-7 : 1997

15.2 The manufacturing process was examined, including the methods adopted for quality control.

Bibliography

- BS 476-6 : 1989 *Fire tests on building materials and structures — Method of test for fire propagation for products*
- BS 476-7 : 1997 *Fire tests on building materials and structures — Method of test to determine the classification of the surface spread of flame of products*
- BS 5385-1 : 1995 *Wall and floor tiling — Code of practice for the design and installation of internal ceramic and natural stone wall tiling and mosaics in normal conditions*
- BS 5385-3 : 2007 *Wall and floor tiling — Design and installation of internal and external ceramic and mosaic floor tiling in normal conditions — Code of practice*
- BS 5385-4 : 1992 *Wall and floor tiling — Code of practice for tiling and mosaics in specific conditions*
- BS 6213 : 2000 *Selection of construction sealants — Guide*
- BS EN 12004 : 2001 *Adhesives for tiles — Definitions and specifications*
- BS EN 12467 : 2004 *Fibre-cement flat sheets— Product specification and test methods*
- BS EN 12664 : 2001 *Thermal performance of building materials and products — Determination of thermal resistance by means of guarded hot plate and heat flow meter methods — Dry and moist products of medium and low thermal resistance*
- BS EN 13888 : 2002 *Grouts for tiles — Definitions and specifications*
- BS EN ISO 11600 : 2003 *Building construction — Jointing products — Classification and requirements for sealants*
- MOAT No 43 : 1987 *UEAtc Directives for Impact Testing Opaque Vertical Building Components*

16 Conditions

16.1 This Certificate:

- relates only to the product/system that is named and described on the front page
- is granted only to the company, firm or person named on the front page — no other company, firm or person may hold or claim any entitlement to this Certificate
- 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
- is subject to English law.

16.2 References in this Certificate to any Act of Parliament, Statutory Instrument, Directive or Regulation of the European Union, British, European or International Standard, Code of Practice, manufacturers' instructions or similar publication, are references to such publication in the form in which it was current at the date of this Certificate.

16.3 This Certificate will remain valid for an unlimited period provided that the product/system and the manufacture and/or fabrication including all related and relevant 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.

16.4 In granting this Certificate, the BBA is not responsible for:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product/system or any other product/system
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product/system
- individual installations of the product/system, including the nature, design, methods and workmanship of or related to the installation
- the actual works in which the product/system is installed, used and maintained, including the nature, design, methods and workmanship of such works.

16.5 Any information relating to the manufacture, supply, installation, use and maintenance of this product/system which is contained or referred to in this Certificate is the minimum required to be met when the product/system is manufactured, supplied, installed, used and maintained. It does not purport in any way to restate the requirements of the Health & Safety at Work etc Act 1974, or of any other statutory, common law or other duty which may exist at the date 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. In granting this Certificate, the BBA does not accept responsibility to any person or body for any loss or damage, including personal injury, arising as a direct or indirect result of the manufacture, supply, installation, use and maintenance of this product/system.

