



## Designated according to The Construction Products (Amendment etc.) (EU Exit) Regulations 2020 (as amended 2022)

| UK Technical Assessment                                                                                                                                            | UKTA-0836-23/7000 of 11/04/2024                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Technical Assessment Body issuing the UK Technical Assessment:                                                                                                     | British Board of Agrément                                                              |
| Trade name of the construction product:                                                                                                                            | PRB THERMOLOOK EMI                                                                     |
| Product family to which the construction product belongs:                                                                                                          | Product Area Code 04 – External Wall insulation composite system.                      |
| Manufacturer:                                                                                                                                                      | PRB S.A.<br>Rue de la Tour – CS 10018<br>85150 LES ACHARDS<br>France                   |
| Manufacturing plant(s):                                                                                                                                            | PRB S.A.<br>Rue de la Tour – CS 10018<br>85150 LES ACHARDS<br>France                   |
| This UK Technical Assessment contains:                                                                                                                             | 20 pages, including 3 Annexes which form an integral part of this assessment           |
| This UK Technical Assessment is issued in accordance with The Construction Products (Amendment etc.) (EU Exit) Regulations 2020 (as amended 2022) on the basis of: | UKAD 040083-00-0404<br><i>External wall insulation composite system with rendering</i> |

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## 1. Technical description of the product

The External Wall Insulating System “PRB THERMOLOOK EMI”, subject to this UK Technical Assessment (hereinafter UKTA) and called EWIS in the following text, is a kit designed and installed in accordance with the Manufacturer’s instructions, deposited with the British Board of Agrément. The EWIS comprises the components listed in the following table, which are factory-produced by the Manufacturer or a supplier. The EWIS is made up on site from these components.

The EWIS also includes ancillary materials which shall be used in accordance with the Manufacturer’s instructions.

The EWIS is described according to its method of fixing, as per UKAD 040083-00-0404.

Method of fixing: Bonded EWIS (purely bonded or bonded with supplementary anchors)

| Components                                 | Trade name                                                                                                       | Description                                                                   | Coverage (kg.m <sup>-2</sup> ) | Thickness (mm) |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|----------------|
| Insulation product                         | ISOVIT ICB                                                                                                       | Standard expanded polystyrene (EPS) boards, see Annex 1                       | -                              | 20 to 300      |
| Adhesive                                   | PRB THERMICOL                                                                                                    | Grey cementitious powder requiring addition of 24 to 26% w/w. water           | 2.3 to 2.6 [powder]            | -              |
|                                            | PRB FONDISOL F                                                                                                   | Grey or white cementitious powder requiring addition of 19 to 22% w/w. water. | 2.3 to 2.6 [powder]            | -              |
| Anchors (supplementary mechanical fixings) | -                                                                                                                | Plastic anchors, see Annex 2                                                  | -                              | -              |
| Ancillary materials                        | Description in accordance with clause 1.3.13 of UKAD 040083-00-0404<br>Remains the Manufacturer’s responsibility |                                                                               |                                |                |

Method of fixing: Mechanically fixed EWIS with anchors and supplementary adhesive

| Components                                 | Trade name                                                                                                       | Description                                                                   | Coverage (kg.m <sup>-2</sup> ) | Thickness (mm) |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|----------------|
| Insulation product                         | ISOVIT ICB                                                                                                       | Standard expanded polystyrene (EPS) boards, see Annex 1                       | -                              | 60 to 300      |
| Adhesive                                   | PRB THERMICOL                                                                                                    | Grey cementitious powder requiring addition of 24 to 26% w/w. water           | 2.3 to 2.6 [powder]            | -              |
|                                            | PRB FONDISOL F                                                                                                   | Grey or white cementitious powder requiring addition of 19 to 22% w/w. water. | 2.3 to 2.6 [powder]            | -              |
| Anchors (supplementary mechanical fixings) | -                                                                                                                | Plastic anchors, see Annex 2                                                  | -                              | -              |
| Ancillary materials                        | Description in accordance with clause 1.3.13 of UKAD 040083-00-0404<br>Remains the Manufacturer’s responsibility |                                                                               |                                |                |

Every other method of fixing:

| Components                                                | Trade name              | Description                                                                                                                                                                                                                                                               | Coverage (kg.m <sup>-2</sup> ) | Thickness (mm)                        |
|-----------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------------|
| Insulation product                                        | ISOVIT ICB              | Standard expanded polystyrene (EPS) boards, see Annex 1                                                                                                                                                                                                                   | -                              | 20 to 300                             |
| Adhesive                                                  | PRB THERMICOL           | Grey cementitious powder requiring addition of 24 to 26% w/w. water                                                                                                                                                                                                       | 2.3 to 2.6 [powder]            | -                                     |
|                                                           | PRB FONDISOL F          | Grey or white cementitious powder requiring addition of 19 to 22% w/w. water.                                                                                                                                                                                             | 2.3 to 2.6 [powder]            | -                                     |
| Base coat – above DPC                                     | PRB FONDISOL F          | Powder requiring addition of about 24 to 26 % w/w. water, consisting of grey or white cement, natural hydraulic lime, mineral pigments, calcium carbonate and silica and additives.                                                                                       | About 4.5 [powder]             | Mean: 3.5 [dry]<br>Minimum: 3.0 [dry] |
| Base coat – below DPC                                     | PRB FONDICHOC           | Yellow pigmented powder requiring addition of about 24 to 26 % w/wt. water, consisting of grey cement, natural hydraulic lime, mineral pigments, calcium carbonate and silica as particles and specific additives. To be applied in three layers.                         | About 6.0 [powder]             | Mean: 4.5 [dry]<br>Minimum: 4.0 [dry] |
| Glass fibre meshes                                        | -                       | Glass fibre meshes (standard and reinforced), see Annex 3                                                                                                                                                                                                                 | -                              | -                                     |
| Key coats                                                 | PRB CRÉPIFOND G         | Ready-to-use pigmented mandatory primers for the finishing coats:<br>- PRB CRÉPOXANE F FR / M FR<br>- PRB CRÉPIMUR F FR / M FR / G FR<br>- PRB CRÉPIRIB F FR / G FR<br>- PRB CREPIMUR SOUPLE M FR / G FR<br>- PRB MARBRO MURO<br>- PRB CRÉPISIX M FR<br>- PRB CRÉPILIS FR | 0.20 to 0.30                   | -                                     |
|                                                           | PRB CRÉPIFOND MINÉRAL G | Ready-to-use pigmented optional primer for the finishing coats PRB CRÉPITAL and PRB CRÉPIXATE.                                                                                                                                                                            | 0.20 to 0.30                   | -                                     |
| Finishing coats:<br>Ready-to-use pastes – siloxane binder | PRB CRÉPOXANE F FR      | Particle size 1.0 mm                                                                                                                                                                                                                                                      | 2.0 to 2.2                     | Regulated by particle size            |
|                                                           | PRB CRÉPOXANE M FR      | Particle size 1.5 mm                                                                                                                                                                                                                                                      | 2.2 to 2.8                     |                                       |

|                                                                                                                                                            |                          |                                                                                                |                                                                                                 |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------|
| Finishing coats:<br>Ready-to-use pastes – acrylic binder                                                                                                   | PRB CRÉPIMUR F FR        | Particle size 1.0 mm                                                                           | 2.0 to 2.2                                                                                      | Regulated by particle size |
|                                                                                                                                                            | PRB CRÉPIMUR M           | Particle size 1.5 mm                                                                           | 2.2 to 2.8                                                                                      |                            |
|                                                                                                                                                            | PRB CRÉPIMUR G FR        | Particle size 3.0 mm                                                                           | 3.3 to 3.7                                                                                      |                            |
|                                                                                                                                                            | PRB CRÉPIRIB F FR        | Particle size 2.0 mm                                                                           | 2.0 to 2.6                                                                                      |                            |
|                                                                                                                                                            | PRB CRÉPIRIB G FR        | Particle size 3.0 mm                                                                           | 2.8 to 3.5                                                                                      |                            |
|                                                                                                                                                            | PRB CRÉPIMUR SOUPLE M FR | Particle size 1.5 mm                                                                           | 2.2 to 2.8                                                                                      |                            |
|                                                                                                                                                            | PRB CRÉPIMUR SOUPLE G FR | Particle size 3.0 mm                                                                           | 3.3 to 3.7                                                                                      |                            |
|                                                                                                                                                            | PRB MARBRO MURO          | Particle size 1.6 – 2.5 mm                                                                     | 4.0 to 4.3                                                                                      |                            |
| Finishing coat:<br>Ready-to-use pastes – acrylsiloxane binder                                                                                              | PRB CRÉPISIX M FR        | Particle size 1.5 mm                                                                           | 2.4 to 2.8                                                                                      | Regulated by particle size |
| Finishing coat:<br>Ready-to-use pastes – silicate binder                                                                                                   | PRB CRÉPIXATE F          | Particle size 1.0 mm                                                                           | 2.0 to 2.3                                                                                      |                            |
|                                                                                                                                                            | PRB CRÉPIXATE M          | Particle size 1.5 mm                                                                           | 2.4 to 2.8                                                                                      |                            |
| Finishing coat comprising of two coats of ready-to-use pastes – acrylic binder                                                                             | PRB CRÉPILIS SC FR       | Particle size 0.7 mm                                                                           | 1.1 to 1.5                                                                                      | Regulated by particle size |
|                                                                                                                                                            | PRB CRÉPILIS F FR        | Particle size 0.2 mm                                                                           | 0.6 to 1.0                                                                                      |                            |
| Finishing coat                                                                                                                                             | PRB CRÉPITAL             | Hydrated lime powder requiring the addition of about 26% w/w water<br><br>Particle size 1.5 mm | 2.0 to 2.4 [powder]                                                                             | Regulated by particle size |
| Finishing coat:<br>Cementitious powder requiring the addition of about 24% w/w water (PRB FONDISOL F or PRB FONDICHOC) associated with the following paint | PRB COLOR ACRYLFLEX FR   | Ready-to-use pigmented liquid - acrylic binder) which may be diluted with 10% w/w. water       | 0.8 to 1.5 [powder]<br><br>1st layer: diluted by 10% 0.2 to 0.25<br><br>2nd layer: 0.25 to 0.35 | About 1.0                  |

|                                                                                                                                                         |                                                                                                                  |                                                 |                                                                     |                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------|----------------------------|
| Finishing coat:<br>Cementitious powder requiring addition of about 24% w/w. water (PRB FONDISOL F or PRB FONDICHOC) associated with the following paint | PRB COLOR SILOFLEX FR                                                                                            | Ready-to-use pigmented liquid - siloxane binder | 0.9 to 1.5 [powder]<br><br>1st layer: 0.375<br><br>2nd layer: 0.375 | About 1.0                  |
| Finishing coats:<br>Cementitious powders requiring addition of 23% to 26% w/w. water                                                                    | PRB THERMOLOOK GF (particle size 1.8 to 2.0 mm)                                                                  | Rough or partly smoothed:                       | 8.0 to 9.0 [powder]                                                 | 5.0 to 7.0                 |
|                                                                                                                                                         | PRB THERMOLOOK GM (particle size 3.15 mm)                                                                        | Scraped:                                        | 11.0 to 15.0 [powder]                                               | 7.0 to 10.0                |
| Finishing coat composed of two coats of cement and lime-based powder requiring addition of 24% wt. water                                                | PRB CRÉPICH AUX SC (particles size 0.7 mm)                                                                       |                                                 | 1.0 to 1.6 [powder]                                                 | Regulated by particle size |
|                                                                                                                                                         | PRB CRÉPICH AUX F (particles size 0.4 mm)                                                                        |                                                 | 0.5 to 0.8 [powder]                                                 |                            |
| Ancillary materials                                                                                                                                     | Description in accordance with clause 1.3.13 of UKAD 040083-00-0404<br>Remains the Manufacturer's responsibility |                                                 |                                                                     |                            |

The components are protected from moisture during transport and storage by means of appropriate packaging unless other measures are foreseen by the Manufacturer for this purpose.

## 2. Specification of the intended use(s) in accordance with the applicable UK Assessment Document (hereinafter UKAD)

This EWIS is intended to be used as thermal insulation of masonry (bricks, blocks, stone, etc.) or concrete (cast on site or as prefabricated panels) external walls.

The EWIS can be installed on new or existing (retrofit) vertical walls. It can also be installed on horizontal or inclined surfaces which are not exposed to precipitation.

The EWIS is made of non-load bearing construction elements. It does not contribute directly to the stability of the walls on which it is installed, but it can contribute to durability by providing enhanced protection from the effect of weathering.

The EWIS is not intended to ensure the airtightness of the walls.

The provisions made in this UKTA are based on an assumed working life of at least 25 years, provided that the construction works are subject to appropriate design, execution, maintenance, and repair. The indications given as to the working life cannot be interpreted as a guarantee given by the Manufacturer or the Technical Assessment Body but should only be regarded as a means for choosing the appropriate products in relation to the expected economically reasonable working life of the works.

Design, execution, maintenance, and repair of the construction works shall consider principles given in UKAD 040083-00-0404 and shall be done in accordance with national instructions.

### 3. Performance of the product and references to the methods used for its assessment

#### 3.1 Mechanical resistance and stability (BWR 1)

Not relevant.

#### 3.2 Safety in case of fire (BWR 2)

Reaction to fire (UKAD 040083-00-0404 – clause 2.2.1.1)

| Configuration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Declared organic content <sup>(1)</sup>                                                     | Declared flame retardant content <sup>(1)</sup>                                      | Class according to EN 13501-1 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------|
| Supplementary adhesives:<br>- PRB THERMICOL<br>- PRB FONDISOL F (grey or white)<br><br>Insulation product:<br>- EPS boards, reaction to fire Class E<br>- Thickness ≤300 mm<br>- Density ≤19.1 kg.m <sup>-3</sup><br><br>Base coat:<br>- PRB FONDISOL F (grey or white)<br>- PRB FONDICHOC<br><br>Meshes:<br>- 04-161 B<br>- 0161-CA<br><br>Key coat:<br>- PRB CRÉPIFOND G<br><br>Finishing coats:<br>- PRB CRÉPIRIB F FR, G FR<br>- PRB CRÉPIMUR M FR<br>- PRB CRÉPIMUR SOUPLE G FR, M FR<br>- PRB COLOR ACRYFLEX FR<br>- PRB COLOR SILOFLEX FR | Base coat:<br>2.6 to 5.0%<br><br>Key coat:<br>11.8%<br><br>Finishing coats:<br>6.6 to 23.5% | Base coat:<br>0.0%<br><br>Key coat:<br>0.0%<br><br>Finishing coats:<br>18.0 to 20.0% | B-s1, d0                      |
| Supplementary adhesives:<br>- PRB THERMICOL<br>- PRB FONDISOL F (grey or white)<br><br>Insulation product:<br>- EPS boards, reaction to fire Class E<br>- Thickness ≤300 mm<br>- Density ≤20 kg.m <sup>-3</sup><br><br>Base coat:<br>- PRB FONDISOL F (grey or white)<br>- PRB FONDICHOC<br><br>Meshes:<br>- R 131 A 101 C+<br>- R 131 A 102 C+<br>- SSA-1363 F+<br>- 04-161 B<br>- 0161-CA<br>- 0161RA20<br>- 03-1 C+<br><br>Key coat:<br>- PRB CRÉPIFOND MINÉRAL G                                                                             | Base coat:<br>2.6 to 5.0%<br><br>Key coat:<br>3.5%<br><br>Finishing coats:<br>3.5 to 4.5%   | Base coat:<br>0.0 %<br><br>Key coat:<br>0.0 %<br><br>Finishing coats:<br>0.0 %       | B-s1, d0                      |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                            |                                                                                |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------|
| Finishing coats:<br>- PRB CRÉPIXATE F<br>- PRB CRÉPITAL                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                            |                                                                                |          |
| Supplementary adhesives:<br>- PRB THERMICOL<br>- PRB FONDISOL F (grey or white)<br><br>Insulation product:<br>- EPS boards, reaction to fire Class E<br>- Thickness $\leq 300$ mm<br>- Density $\leq 19.1$ kg.m <sup>-3</sup><br><br>Base coat:<br>- PRB FONDISOL F (grey or white)<br>- PRB FONDICHOC<br><br>Meshes:<br>- 04-161 B<br>- 0161-CA<br><br>Key coat<br>- PRB CRÉPIFOND G<br><br>Finishing coats:<br>- PRB CRÉPOXANE F FR, M FR<br>- PRB CRÉPIMUR G FR, F FR<br>- PRB CRÉPILIS FR<br>- PRB CRÉPISIX FR | Base coat:<br>2.6 to 5.0%<br><br>Key coat:<br>11.8 %<br><br>Finishing coat:<br>6.6 to 7.6% | Base coat:<br>0.0 %<br><br>Key coat:<br>0.0 %<br><br>Finishing coat:<br>18.0 % | B-s2, d0 |
| Supplementary adhesives:<br>- PRB THERMICOL<br>- PRB FONDISOL F (grey or white)<br><br>Insulation product:<br>- EPS boards, reaction to fire Class E<br>- Thickness $\leq 300$ mm<br>- Density $\leq 20$ kg.m <sup>-3</sup><br><br>Base coat:<br>- PRB FONDISOL F (grey or white)<br>- PRB FONDICHOC<br><br>Meshes:<br>- R 131 A 101 C+<br>- R 131 A 102 C+<br>- SSA-1363 F+<br>- 04-161 B<br>- 0161-CA<br>- 0161RA20<br>- 03-1 C+<br><br>Finishing coats:<br>- PRB THERMALOOK GF, GM<br>- PRB CRÉPICH AUX         | Base coat:<br>2.6 to 5.0%<br><br>Finishing coats:<br>2.5 to 3.5%                           | Base coat:<br>0.0 %<br><br>Finishing coats:<br>0.0 %                           | B-s1, d0 |
| Supplementary adhesives:<br>- PRB THERMICOL<br>- PRB FONDISOL F (grey or white)<br><br>Insulation product:<br>- EPS boards, reaction to fire Class E<br>- Thickness $\leq 300$ mm<br>- Density $\leq 18$ kg.m <sup>-3</sup><br><br>Base coat:<br>- PRB FONDISOL F (grey or white)                                                                                                                                                                                                                                  | Base coat:<br>2.6 to 5.0%<br><br>Key coat:<br>3.5%<br><br>Finishing coat:<br>4.5%          | Base coat:<br>0.0 %<br><br>Key coat:<br>0.0 %<br><br>Finishing coats:<br>0.0 % | B-s2, d0 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                     |                                                                                |                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------|
| - PRB FONDICHOC<br><br>Meshes:<br>- R 131 A 101 C+<br>- R 131 A 102 C+<br>- SSA-1363 F+<br>- 04-161 B<br>- 0161-CA<br>- 0161RA20<br>- 03-1 C+<br><br>Key coats:<br>- PRB CRÉPIFOND MINERAL G<br><br>Finishing coats:<br>- PRB CRÉPIXATE M                                                                                                                                                                                                                                                                             |                                                                                     |                                                                                |                           |
| Supplementary adhesives:<br>- PRB THERMICOL<br>- PRB FONDISOL F (grey or white)<br><br>Insulation product:<br>- EPS boards, reaction to fire Class E<br>- Thickness $\leq 300$ mm<br>- Density $\leq 18 \text{ kg.m}^{-3}$<br><br>Base coat:<br>- PRB FONDISOL F (grey or white)<br>- PRB FONDICHOC<br><br>Meshes:<br>- R 131 A 101 C+<br>- R 131 A 102 C+<br>- SSA-1363 F+<br>- 04-161 B<br>- 0161-CA<br>- 0161RA20<br>- 03-1 C+<br><br>Key coats:<br>- PRB CRÉPIFOND G<br><br>Finishing coats:<br>- PRB MARBRO MURO | Base coat:<br>2.6 to 5.0%<br><br>Key coat:<br>11.8%<br><br>Finishing coat:<br>11.9% | Base coat:<br>0.0 %<br><br>Key coat:<br>0.0 %<br><br>Finishing coats:<br>0.0 % | E                         |
| Other configurations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                                                                                   | -                                                                              | No Performance Determined |

(1) Percentage declared by the Manufacturer, relative to the dried weight of the component as delivered.

Note: The above classifications according to EN 13501-1: 2018 will not allow the use of the systems in all applications and an additional assessment must be carried out on a case-by-case basis against the requirements of the national Building Regulations.

### 3.3 Health, hygiene, and the environment (BWR 3)

#### 3.3.1 Water absorption – capillarity test

##### 3.3.1.1 Water absorption of the base coat

- water absorption after 1 hour  $< 1 \text{ kg.m}^{-2}$
- water absorption after 24 hour  $< 0.5 \text{ kg.m}^{-2}$

The system is therefore judged to have satisfactory performance concerning water absorption, independent of the finishing coat.

##### 3.3.1.2 Water absorption of the rendering system

| Rendering system: Base coat + finishing coat indicated below                                                                       | Water absorption after 24 h<br><0.5 kg.m <sup>-2</sup> | Water absorption after 24 h<br>≥ 0.5 kg.m <sup>-2</sup> |
|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------|
| With PRB CRÉPIFOND G:<br>- PRB CRÉPOXANE F FR<br>- PRB CRÉPOXANE M FR                                                              | X                                                      |                                                         |
| With PRB CRÉPIFOND G:<br>- PRB CRÉPIMUR F FR<br>- PRB CRÉPIMUR M FR - PRB CRÉPIMUR G FR<br>- PRB CRÉPIRIB F FR – PRB CRÉPIRIB G FR | X                                                      |                                                         |
| With PRB CRÉPIFOND G:<br>- PRB CRÉPIMUR SOUPLE M FR<br>- PRB CRÉPIMUR SOUPLE G FR                                                  | X                                                      |                                                         |
| With PRB CRÉPIFOND G:<br>PRB MARBRO MURO                                                                                           |                                                        | X                                                       |
| With PRB CRÉPIFOND G:<br>PRB CRÉPISIX M FR                                                                                         | X                                                      |                                                         |
| With PRB CRÉPIFOND G:<br>- PRB CRÉPIXATE F<br>- PRB CRÉPIXATE M                                                                    |                                                        | X                                                       |
| With PRB CRÉPIFOND G:<br>PRB CRÉPILIS FR<br>(PRB CRÉPILIS SC FR + PRB CRÉPILIS F FR)                                               | X                                                      |                                                         |
| With PRB CRÉPIFOND MINÉRAL G:<br>PRB CRÉPITAL                                                                                      | X                                                      |                                                         |
| With PRB CRÉPIFOND MINÉRAL G:<br>PRB COLOR ACRYLFLEX FR                                                                            | X                                                      |                                                         |
| With PRB CRÉPIFOND MINÉRAL G:<br>PRB COLOR SILOFLEX FR                                                                             | X                                                      |                                                         |
| With PRB CRÉPIFOND MINÉRAL G:<br>PRB THERMOLOOK GF                                                                                 | X                                                      |                                                         |
| With PRB CRÉPIFOND MINÉRAL G:<br>PRB THERMOLOOK GM                                                                                 |                                                        | X                                                       |
| PRB CRÉPICHAUX (PRB CRÉPICHAUX SC + PRB CRÉPICHAUX F)                                                                              | X                                                      |                                                         |

### 3.3.2 Watertightness

#### 3.3.2.1 Hygrothermal behaviour

Heat-rain and heat-cold cycle tests were performed. The EWIS is assessed as resistant to hygrothermal cycles.

#### 3.3.2.1 Freeze / thaw behaviour

EWIS including the finishing coats PRB CRÉPIXATE and PRB MARBRO MURO: the EWIS has been assessed as freeze/thaw resistant according to simulation method.

EWIS including the finishing coat PRB THERMOLOOK GM: the EWIS has not been assessed regarding freeze-thaw behaviour.

Concerning the other finishing coats, taking into account the fact that the water absorptions (capillarity tests) are smaller than 0.5 kg/m<sup>2</sup> after 24 hours, the EWIS is assessed as freeze / thaw resistant without further testing.

### 3.3.3 Impact resistance

#### 3.3.3.1 Base coat PRB FONDISOL F

| Rendering system: Base coat + finishing coat indicated below                                           | Use categories       |                        |                                 |
|--------------------------------------------------------------------------------------------------------|----------------------|------------------------|---------------------------------|
|                                                                                                        | Single standard mesh | Double standard meshes | Reinforced mesh + standard mesh |
| With PRB CRÉPIFOND G:<br>- PRB CRÉPOXANE F FR<br>- PRB CRÉPOXANE M FR                                  | Cat III              | Cat II                 | Cat II                          |
| With PRB CRÉPIFOND G:<br>- PRB CRÉPIRIB F FR                                                           | Cat III              | Cat II                 | Cat II                          |
| With PRB CRÉPIFOND G:<br>- PRB CRÉPIRIB G FR                                                           | Cat II               | Cat II                 | Cat II                          |
| With PRB CRÉPIFOND G:<br>- PRB CRÉPIMUR F FR                                                           | Cat III              | Cat III                | Cat III                         |
| With PRB CRÉPIFOND G:<br>- PRB CRÉPIMUR M FR<br>- PRB CRÉPIMUR G FR                                    | Cat III              | Cat II                 | Cat II                          |
| With PRB CRÉPIFOND G:<br>- PRB CRÉPIMUR SOUPLE M FR<br>- PRB CRÉPIMUR SOUPLE G FR<br>- PRB MARBRO MURO | Cat I                | Cat I                  | Cat I                           |
| With PRB CRÉPIFOND G:<br>- PRB CRÉPISIX M FR                                                           | Cat III              | Cat II                 | Cat II                          |
| With PRB CRÉPIFOND G:<br>- PRB CRÉPIXATE F<br>- PRB CRÉPIXATE M                                        | Cat III              | Cat III                | Cat II                          |
| With PRB CRÉPIFOND G:<br>- PRB CRÉPILIS FR<br>(PRB CRÉPILIS SC FR + PRB CRÉPILIS F FR)                 | Cat III              | Cat II                 | Cat II                          |
| PRB CRÉPITAL                                                                                           | Cat III              | Cat III                | Cat III                         |
| PRB COLOR ACRYLFLEX FR                                                                                 | Cat II               | Cat II                 | Cat II                          |
| PRB COLOR SILOFLEX FR                                                                                  | Cat II               | Cat I                  | Cat I                           |
| PRB THERMOLOOK GF<br>PRB THERMOLOOK GM                                                                 | Cat II               | Cat II                 | Cat II                          |
| PRB CRÉPICHAUX (PRB CRÉPICHAUX SC + PRB CRÉPICHAUX F)                                                  | Cat III              | Cat III                | Cat II                          |

### 3.3.3.2 Base coat PRB FONDICHOC

| Rendering system: Base coat + finishing coat indicated below                                                       | Use categories       |                        |                                 |
|--------------------------------------------------------------------------------------------------------------------|----------------------|------------------------|---------------------------------|
|                                                                                                                    | Single standard mesh | Double standard meshes | Reinforced mesh + standard mesh |
| With PRB CRÉPIFOND G:<br>- PRB CRÉPOXANE F FR<br>- PRB CRÉPOXANE M FR                                              | -                    | Category I             |                                 |
| With PRB CRÉPIFOND G:<br>- PRB CRÉPIRIB F FR                                                                       | -                    | Category II            |                                 |
| With PRB CRÉPIFOND G:<br>- PRB CRÉPIMUR F FR<br>- PRB CRÉPIMUR M FR<br>- PRB CRÉPIMUR G FR<br>- PRB CRÉPIRIB G FR. | -                    | Category I             |                                 |
| With PRB CRÉPIFOND G:<br>PRB CRÉPISIX M FR                                                                         | -                    | Category II            |                                 |
| PRB CRÉPIXATE F<br>- PRB CRÉPIXATE M                                                                               | -                    | Category I             |                                 |
| With PRB CRÉPIFOND G:<br>PRB CRÉPILIS FR<br>(PRB CRÉPILIS SC FR + PRB CRÉPILIS F FR)                               | -                    | Category II            | Category I                      |
| PRB CRÉPITAL                                                                                                       | -                    | Category II            | Category I                      |
| PRB COLOR ACRYLFLEX FR                                                                                             | -                    | Category I             |                                 |
| PRB THERMOLOOK GF<br>PRB THERMOLOOK GM                                                                             | -                    | Category I             |                                 |

### 3.3.4 Water vapour permeability - resistance to water vapour diffusion

| Rendering system: Base coat + finishing coat indicated below                                                                             | Equivalent air thickness $s_d$ (m)                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| With PRB CRÉPIFOND G:<br>- PRB CRÉPOXANE F FR<br>- PRB CRÉPOXANE M FR                                                                    | $\leq 1.0$<br>(Test result obtained with PRB CRÉPOXANE M FR: 0.7)                                                                                                                                                                      |
| With PRB CRÉPIFOND G:<br>- PRB CRÉPIMUR F FR<br>- PRB CRÉPIMUR M FR<br>- PRB CRÉPIMUR G FR<br>- PRB CRÉPIRIB F FR<br>- PRB CRÉPIRIB G FR | $\leq 2.0$ (Test result obtained with:<br>- PRB CRÉPIMUR G FR with PRB FONDISOL F: 1.1<br>- PRB CRÉPIMUR G FR with PRB FONDICHOC: 1.6<br>- PRB CRÉPIMUR F FR with PRB FONDISOL F: 0.5<br>- PRB CRÉPIMUR M FR with PRB FONDISOL F: 0.6) |

|                                                                                   |                                                                                              |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|                                                                                   | - PRB CRÉPIRIB F FR with PRB FONDISOL F: 0.5<br>- PRB CRÉPIRIB G FR with PRB FONDISOL F: 0.7 |
| With PRB CRÉPIFOND G:<br>- PRB CRÉPIMUR SOUPLE M FR<br>- PRB CRÉPIMUR SOUPLE G FR | $\leq 2.0$<br>(Test result obtained PRB CRÉPIMUR SOUPLE G FR: 1.2)                           |
| With PRB CRÉPIFOND G:<br>PRB MARBRO MURO                                          | $\leq 1.0$<br>(Test result obtained: 0.3)                                                    |
| With PRB CRÉPIFOND G:<br>PRB CRÉPISIX M FR                                        | $\leq 1.0$<br>(Test result obtained: 0.9)                                                    |
| With PRB CRÉPIFOND MINÉRAL G:<br>- PRB CRÉPIXATE F - PRB CRÉPIXATE M              | $\leq 1.0$<br>(Test result obtained with PRB CRÉPIXATE M: 0.2)                               |
| Without PRB CRÉPIFOND MINÉRAL G:<br>- PRB CRÉPIXATE F - PRB CRÉPIXATE M           | $\leq 1.0$<br>(Test result obtained with PRB CRÉPIXATE M: 0.2)                               |
| With PRB CRÉPIFOND G:<br>PRB CRÉPILIS FR (PRB CRÉPILIS SC FR + PRB CRÉPILIS F FR) | $\leq 1.0$<br>(Test result obtained: 0.5)                                                    |
| With PRB CRÉPIFOND MINÉRAL G:<br>PRB CRÉPITAL                                     | $\leq 1.0$<br>(Test result obtained: 0.2)                                                    |
| Without PRB CRÉPIFOND MINÉRAL G:<br>PRB CRÉPITAL                                  | $\leq 1.0$<br>(Test result obtained: 0.1)                                                    |
| PRB COLOR ACRYLFLEX FR                                                            | $\leq 1.0$<br>(Test result obtained: 0.9)                                                    |
| PRB COLOR SILOFLEX FR                                                             | $\leq 1.0$<br>(Test result obtained: 0.8)                                                    |
| PRB THERMOLOOK GF                                                                 | $\leq 1.0$<br>(Test result obtained: 0.3)                                                    |
| PRB THERMOLOOK GM                                                                 | $\leq 1.0$<br>(Test result obtained: 0.2)                                                    |
| +PRB CRÉPICHAUX (PRB CRÉPICHAUX SC + PRB CRÉPICHAUX F)                            | $\leq 1.0$<br>(Test result obtained: 0.2)                                                    |

### 3.3.5 Dangerous substances

The EWIS is assigned Category S/W2, according to EOTA Technical Report No 034.

Regarding dangerous substances, there may be additional legislative requirements falling outside of the scope of this document. These requirements must be complied with as appropriate.

## 3.4 Safety and accessibility in use (BWR 4)

### 3.4.1 Bond strength

3.4.1.1 Bond strength of the base coats (PRB FONDISOL F and PRB FONDICHOC) onto insulation product.

Initial state: bond strength  $\geq 0.08$  MPa.

After ageing: bond strength  $\geq 0.08$  MPa.

After the freeze/thaw cycles: test not required

3.4.1.2 Bond strength of adhesives onto substrate and insulation product

PRB THERMICOL and PRB FONDISOL F:

|          | Bond strength (MPa / Failure pattern) |                                                     |                                                        |
|----------|---------------------------------------|-----------------------------------------------------|--------------------------------------------------------|
|          | Initial                               | After conditioning                                  |                                                        |
|          |                                       | After 48 hours immersion in water + 2 h 23°C/50% RH | After 48 hours immersion in water + 7 days 23°C/50% RH |
| Concrete | $\geq 0.25$                           | $\geq 0.08$                                         | $\geq 0.25$                                            |
| EPS      | $\geq 0.08$                           | $\geq 0.03$                                         | 0.08                                                   |

The EWIS can be installed on the substrate with application of the adhesive on the following surfaces:

|                | Tensile strength perpendicular to the faces of EPS |                |                |
|----------------|----------------------------------------------------|----------------|----------------|
|                | $\geq 100$ kPa                                     | $\geq 120$ kPa | $\geq 150$ kPa |
| PRB THERMICOL  | 30%                                                | 25%            | 20%            |
| PRB FONDISOL F | 30%                                                | 25%            | 20%            |

### 3.4.2 Fixing strength (transverse displacement)

Test not required because the EWIS fulfils the following criteria:  $E \cdot d < 50,000$  N/mm

E modulus of elasticity of the base coat without mesh (MPa)

d mean dried thickness of the base coat (mm)

### 3.4.3 Resistance to wind load of mechanically-fixed EWIS using anchors

|                                  |                                                            |              |               |               |
|----------------------------------|------------------------------------------------------------|--------------|---------------|---------------|
| Anchors                          | Plate diameter (mm)                                        | $\geq 60$    |               |               |
|                                  | Plate stiffness (kN/mm)                                    | $\geq 0.3$   |               |               |
| Insulation product               | Type                                                       | EPS boards   |               |               |
|                                  | Tensile strength perpendicular to the face (kPa)           | $\geq 120$   |               |               |
|                                  | Thickness (mm)                                             | $\geq 60$    | $\geq 80$     | $\geq 100$    |
| Maximum load (Pull-through test) | Anchors not placed at panel joints: $R_{\text{panel}}$ (N) | Minimum: 506 | Minimum: 649  | Minimum: 658  |
|                                  |                                                            | Average: 512 | Average : 657 | Average : 688 |
|                                  | Anchors placed at the panel joints: $R_{\text{joint}}$ (N) | Minimum: 429 | Minimum: 554  | Minimum: 611  |
|                                  |                                                            | Average: 455 | Average : 570 | Average : 616 |

|                                  |                                                            |              |               |               |
|----------------------------------|------------------------------------------------------------|--------------|---------------|---------------|
| Anchors                          | Plate diameter (mm)                                        | $\geq 60$    |               |               |
|                                  | Plate stiffness (kN/mm)                                    | $\geq 0.6$   |               |               |
| Insulation product               | Type                                                       | EPS boards   |               |               |
|                                  | Tensile strength perpendicular to the face (kPa)           | $\geq 120$   |               |               |
|                                  | Thickness (mm)                                             | $\geq 60$    | $\geq 80$     | $\geq 100$    |
| Maximum load (Pull-through test) | Anchors not placed at panel joints: $R_{\text{panel}}$ (N) | Minimum: 509 | Minimum: 707  | Minimum: 949  |
|                                  |                                                            | Average: 520 | Average : 720 | Average : 968 |
|                                  | Anchors placed at the panel joints: $R_{\text{joint}}$ (N) | Minimum: 433 | Minimum: 610  | Minimum: 806  |
|                                  |                                                            | Average: 464 | Average : 617 | Average : 821 |

For the use of anchors that are countersunk below the surface, the above indicated values apply for insulation thickness greater or equal to 80 mm and plate diameter equal to 60 mm.

Anchors which can be used are described in Annex 2 of this UKTA.

|                                  |                                                            |                              |                              |
|----------------------------------|------------------------------------------------------------|------------------------------|------------------------------|
| Anchors                          | Trade name                                                 | Termoz SV II ecotwist        | ThermoScrew TS U8 Gecko      |
|                                  | Helix dimensions (mm)                                      | Diameter : 66<br>Height : 27 | Diameter : 67<br>Height : 30 |
| Insulation product               | Type                                                       | EPS boards                   |                              |
|                                  | Tensile strength perpendicular to the face (kPa)           | $\geq 100$                   |                              |
|                                  | Thickness (mm)                                             | $\geq 100$                   |                              |
| Maximum load (Pull-through test) | Anchors not placed at panel joints: $R_{\text{panel}}$ (N) | Minimum: 510                 | Minimum: 633                 |
|                                  |                                                            | Average : 520                | Average : 656                |
|                                  | Anchors placed at the panel joints: $R_{\text{joint}}$ (N) | Minimum: 390                 | -                            |
|                                  |                                                            | Average : 430                | -                            |

Anchor Termoz SV II ecotwist can only be used as a countersunk application.

Anchor ThermoScrew TS U8 Gecko can only be used as a countersunk application.

The design load resistance of the EWIS fixed with anchors is determined as follows:

$$R_d = (R_{\text{panel}} \cdot n_{\text{panel}} + R_{\text{joint}} \cdot n_{\text{joint}}) / \gamma$$

$n_{\text{panel}}$  number of anchors not placed at the panel joint, per m<sup>2</sup>

$n_{\text{joint}}$  number of anchors placed at the panel joint, per m<sup>2</sup>

$\gamma$  safety factor

#### 3.4.4 Width of crack – Render Strip Tensile Test

No performance determined.

#### 3.5 Protection against noise (BWR 5)

No performance determined.

#### 3.6 Energy economy and heat retention (BWR 6)

Thermal resistance and thermal transmittance are defined in UKAD 040083-00-0404.

#### 3.7 Sustainable use of natural resources (BWR 7)

No performance assessed.

#### 3.8 Aspects of durability and serviceability

Bond strength after ageing

| Rendering system: Base coat + finishing coat indicated below                                                                             | Bond strength (MPa) |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| With PRB CRÉPIFOND G:<br>- PRB CRÉPOXANE F FR<br>- PRB CRÉPOXANE M FR                                                                    | ≥ 0.08              |
| With PRB CRÉPIFOND G:<br>- PRB CRÉPIMUR F FR<br>- PRB CRÉPIMUR M FR<br>- PRB CRÉPIMUR G FR<br>- PRB CRÉPIRIB F FR<br>- PRB CRÉPIRIB G FR |                     |
| With PRB CRÉPIFOND G:<br>- PRB CRÉPIMUR SOUPLE M FR<br>- PRB CRÉPIMUR SOUPLE G FR                                                        |                     |
| With PRB CRÉPIFOND G:<br>PRB MARBRO MURO                                                                                                 |                     |
| With PRB CRÉPIFOND G:<br>PRB CRÉPISIX M FR                                                                                               |                     |
| - PRB CRÉPIXATE F<br>- PRB CRÉPIXATE M                                                                                                   |                     |
| With PRB CRÉPIFOND G:<br>PRB CRÉPILIS FR (PRB CRÉPILIS SC FR + PRB CRÉPILIS F FR)                                                        |                     |
| PRB CRÉPITAL<br>PRB COLOR ACRYLFLEX FR                                                                                                   |                     |
| PRB COLOR SILOFLEX FR                                                                                                                    |                     |
| PRB THERMOLOOK GF                                                                                                                        |                     |
| PRB THERMOLOOK GM                                                                                                                        |                     |
| (PRB CRÉPICHAUX SC + PRB CRÉPICHAUX F)                                                                                                   |                     |

#### **4. Assessment and verification of constancy of performance (hereinafter AVCP) system applied**

##### **4.1 System of assessment and verification of constancy of performance**

According to UKAD No. 040083-00-0404 and Annex V of the Construction Products Regulation (Regulation (EU) 305/2011) as brought into UK law and amended, the system of assessment and verification of constancy of performance (AVCP) 1 applies.

#### **5. Technical details necessary for the implementation of the AVCP system, as provided for in the applicable UKAD**

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with the British Board of Agrément and made available to the UK Approved Bodies involved in the conformity attestation process.

##### **5.1. UKCA marking for the product/ system must contain the following information:**

- Identification number of the Approved Body
- Name/ registered address of the manufacturer of the product/ system
- Marking including date of Marking and the intended use as stated in the Designated technical specification
- Unique identification code of the product type
- The reference number of the Declaration of Performance
- The level or class of the performance declared
- The reference to the Designated technical specification applied
- UKTA number.

On behalf of the British Board of Agrément



Date of Issue: 11 April 2024

**Hardy Giesler**  
Chief Executive Officer



**British Board of Agrément,**  
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## Annex 1

### Insulation product for bonded EWIS or mechanically-fixed EWIS with anchors

Factory-prefabricated, uncoated boards made of expanded polystyrene (EPS) according to EN 13163 and having characteristics described in the following table. The surface of the boards is homogeneous and without “skin”. Coverage ( $\text{kg.m}^{-2}$ ) depends on both the thickness of the board and the density of the EPS.

|                                                                         |                                                                             |                              |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------|
| Reaction to Fire / EN 13501-1                                           |                                                                             | Class E                      |
| Thermal resistance / EN 13163                                           |                                                                             | Please refer to UKCA marking |
| Dimensional tolerances                                                  | Thickness / EN 823                                                          | $\pm 1.0\text{mm}$ [T2]      |
|                                                                         | Length / EN 822                                                             | $\pm 2.0\text{mm}$ [L2]      |
|                                                                         | Width / EN 822                                                              | $\pm 2.0\text{mm}$ [W2]      |
|                                                                         | Squareness / EN 824                                                         | $\pm 2\%$ [S2]               |
|                                                                         | Flatness / EN 825                                                           | $\leq 5\text{ mm}$ [P5]      |
| Dimensional stability                                                   | Under specified temperature / EN 1604: 48 h at 70°C                         | $\leq 1\%$ [DS (70,-)1]      |
|                                                                         | Under specified temperature and humidity / EN 1604: 48 h at 70°C and 90% RH | $\leq 1\%$ [DS (70,90)1]     |
|                                                                         | Under laboratory conditions / EN 1603                                       | $\pm 0.2\%$ [DS(N)2]         |
| Water absorption (partial immersion) / EN 1609 – method A               |                                                                             | $< 1\text{kg.m}^{-2}$        |
| Water vapour diffusion resistance factor ( $\mu$ ) / EN 12086           |                                                                             | 20 to 60                     |
| Tensile strength perpendicular to the faces in dry conditions / EN 1607 |                                                                             | $\geq 100\text{kPa}$         |
| Shear strength / EN 12090                                               |                                                                             | $\geq 0.02\text{ N/mm}^2$    |
| Shear modulus / EN 12090                                                |                                                                             | $\geq 1.0\text{ N/mm}^2$     |
| Dynamic stiffness / EN 29052-1                                          |                                                                             | No performance determined    |
| Air flow resistance / EN 29053                                          |                                                                             | Not relevant                 |

## Annex 2

### Anchors for insulation product

Anchors must be covered by an ETA or UKTA according to EAD/UKAD 330196-00-0604. The anchors are composed of a plastic expansion sleeve with a plate having diameter of 60 mm and a plastic or metallic nail or screw. Use categories and characteristic resistances in the substrate are given in each anchor's ETA or UKTA. Validity of the anchor's ETA or UKTA must be checked before using the anchor.

| Trade name                       | ETA reference | Mounting <sup>(1)</sup> | Plate stiffness (kN/mm) |
|----------------------------------|---------------|-------------------------|-------------------------|
| Ejotharm NTK-U                   | ETA-07/0026   | a                       | ≥ 0.3                   |
| Fischer TERMOZ CN 8              | ETA-09/0394   | a                       |                         |
| Fischer TERMOZ PN 8              | ETA-09/0171   | a                       |                         |
| Fischer Termofix CF 8            | ETA-07/0287   | a                       |                         |
| Koelner KI-10, KI-10 M           | ETA-07/0291   | a                       |                         |
| Koelner KI-10N, KI-10 NS         | ETA-07/0221   | a                       |                         |
| Spit ISO-60                      | ETA-04/0076   | a                       |                         |
| BRAVOLL <sup>(2)</sup> PTH-EX    | ETA-13/0951   | a                       | ≥ 0.6                   |
| BRAVOLL <sup>(2)</sup> PTH-S     | ETA-08/0267   | a, b                    |                         |
| BRAVOLL <sup>(2)</sup> PTH-X     | ETA-13/0951   | a                       |                         |
| Ejotharm STR-U, STR U 2G         | ETA-04/0023   | a, b                    |                         |
| Ejot H1 eco                      | ETA-11/0192   | a                       |                         |
| Ejot H3                          | ETA-14/0130   | a                       |                         |
| Ejot SDF-S plus 8 UB + Rosace TE | ETA-04/0064   | a                       |                         |
| Koelner TFIX-8M                  | ETA-07/0336   | a                       |                         |
| Koelner TFIX-8S                  | ETA-11/0144   | a                       |                         |
| Koelner TFIX-8ST                 | ETA-11/0144   | b                       |                         |
| Spit ISO S                       | ETA-13/0560   | a, b                    |                         |
| Termoz SV II ecotwist            | ETA-12/0208   | b                       | -                       |
| ThermoScrew TS U8 Gecko          | ETA-04/0030   | b                       | -                       |

(1) a= surface mounting; b= countersunk mounting

(2) Registered trademark

Additionally, any anchor covered by an ETA or UKTA in accordance with EAD/UKAD 330196-00-0604 and having the following characteristics can be used:

- plate diameter ≥ 60 mm;
- plate stiffness ≥ 0.3 kN.mm<sup>-1</sup> according to EOTA Technical Report No 026;
- load resistance of the plate ≥ 1.0 kN according to EOTA Technical Report No 026.

These characteristics, the use categories and the characteristic resistances in the substrate shall be taken from the corresponding anchor's ETA or UKTA.

## Annex 3

### Glass fibre meshes

Glass fibre meshes:

- standard meshes: with mesh size between 3 and 6 mm;
- reinforced meshes: implemented in addition to the standard mesh, to improve the impact resistance.

| Trade name                           | Mass per unit area (g.m <sup>-2</sup> ) | Residual strength after ageing (N/mm) |      | Relative residual strength after ageing (%) <sup>(1)</sup> |      |
|--------------------------------------|-----------------------------------------|---------------------------------------|------|------------------------------------------------------------|------|
|                                      |                                         | Warp                                  | Weft | Warp                                                       | Weft |
| Standard meshes                      |                                         |                                       |      |                                                            |      |
| PRB AVN (SSA-1363 F+)                | 167                                     | ≥20                                   | ≥20  | ≥50                                                        | ≥50  |
| PRB AVN (R 131 A 101 C+)             | 167                                     | ≥20                                   | ≥20  | ≥50                                                        | ≥50  |
| PRB AVF (R 131 A 102 C+)             | 161                                     | ≥20                                   | ≥20  | ≥50                                                        | ≥50  |
| PRB AVN (04-161B)                    | 156                                     | ≥20                                   | ≥20  | ≥50                                                        | ≥50  |
| PRB AVN (0161RA20)                   | 160                                     | ≥20                                   | ≥20  | ≥50                                                        | ≥50  |
| PRB AVN (0161-CA)                    | 156                                     | ≥20                                   | ≥20  | ≥50                                                        | ≥50  |
| PRB AVN (03-1 C+)                    | 160                                     | ≥20                                   | ≥20  | ≥50                                                        | ≥50  |
| Reinforced meshes                    |                                         |                                       |      |                                                            |      |
| PRB AVR (G-Weave 660L 55AB X 100 CM) | 710                                     | ≥20                                   | ≥20  | ≥40                                                        | ≥40  |
| PRB AVR (0510-A)                     | 516                                     | ≥20                                   | ≥20  | ≥40                                                        | ≥40  |
| PRB AVR (R 585 A 101)                | 696                                     | ≥20                                   | ≥20  | ≥40                                                        | ≥40  |

(1) Percentage of the strength in the as-delivered state.



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