

June 2023

ETERPAN® Rigid Underlay (RWU)

ETERPAN® RWU is a medium density, non-combustible fibre cement sheet that is used for rigid wall underlays. It is suitable as a rigid wall underlay in accordance with the requirements of NZBC E2/AS1.

Benefits of ETERPAN® RWU

- Strong and rigid
- Easy to install
- Water resistant
- Fire retardant
- High dimensional stability
- Can be left exposed for up to 90 days
- Acoustic performance

1. Product properties

ETERPAN® RWU sheets contains:

- Portland cement
- Mineral fillers
- Reinforcing fibres
- Additives

2. Production process

ETERPAN® RWU sheets are manufactured using Flow On technology.

ETERPAN® RWU has superior water, frost and delamination resistance.

3. Dimensions and tolerances

Dimensions

| FCS Code | Description |
|-----------------|--|
| EP 61224U | ETERPAN® 6mm x 1200mm x 2400mm un-sanded square edge |
| EP 61230U | ETERPAN® 6mm x 1200mm x 3000mm un-sanded square edge |
| EP 91224U | ETERPAN® 9mm x 1200mm x 2400mm un-sanded square edge |
| EP91227U | ETERPAN® 9mm x 1200mm x 2700mm un-sanded square edge |
| EP 91230US | ETERPAN® 9mm x 1200mm x 3000mm un-sanded square edge |

| Tolerances | |
|-----------------------------------|------------------------|
| Thickness | +/- 0.5mm |
| Length & width | +/- 1.5mm |
| Squareness | +/- 1mm / m |
| Density | 1300 kg/m ³ |
| Resistance to continuous freezing | -30 degrees celsius |
| Ignition | 0 |
| Surface spread of flame | 0 |

4. Colour

ETERPAN® RWU is grey in colour.

5. Testing

ETERPAN® RWU sheets are classified Type A under the requirements of AS 2908.2-1992 Cellulose Cement Products, Part 2 Flat sheets.

ETERPAN® RWU complies to the standard AS 2908.2 which defines standards of performance for flat sheets of cellulose-cement products.

Bending Strength

Modulus of Rupture: results gave ETERPAN® RWU a category 2 for a type A board in AS 2908.2, section 6.

Water tightness

Requirements for a type A sheet in AS 2908.2 met.

Resistance to Hot Water Soaking

After the hot water soaking the test samples did not show any visible cracks, structural alteration, or delamination as required in AS 2908.2 for type A.

Resistance to Heat & Rain

After the heat & rain exposure, the test samples did not show any visible cracks, structural alteration, or delamination as required in AS 2908.2 for type A.

Resistance to Freeze & Thaw

After freeze & thaw exposure, the test samples did not show any visible cracks, structural alteration, or delamination as required in AS 2908.2 for type A.

6. Code of Compliance

ETERPAN® RWU is producer guaranteed against physical or mechanical deterioration for 50 years. And satisfies the five year and fifteen year durability criteria required by NZBC performance B2,3 (c) and (d).

ETERPAN® RWU is a non-hazardous product according to NZBC Performance F2.

Durability

When as a non-structural part of the building envelope ETERPAN® RWU meets the NZBC durability requirement of 15 years according to clause B2.3.1(b).

7. Working Instructions

Stationary saw: slow rotation with tungsten carbide-tipped blade or fast rotation with a fluted diamond cutting blade.

Hand circular saw (with rail), slow rotation with tungsten carbide-tipped blade or fast rotation with a fluted diamond cutting blade.

Jigsaw with tungsten carbide-tipped tooth cutting blade

Edge finish Use a fine emery cloth or sanding block • Edges to be sealed as part of the specified architectural finish. No other requirements for edge sealing.

Drilling carbide tipped twist drill. For round apertures: cup drill or circular cutter, carbide-tipped

The sheet should be supported around the hole to be drilled (e.g. by a wooden surface). Cutting and drilling must take place in a dry environment. All residual dust must be removed immediately from the sheet with a dry towel to avoid permanent stains.

Fixing

For rigid underlay applications, the specifications of the nails as well as fixing patterns depend on the application. The minimum distance to the edge of the sheet is 15 mm and 150 and 50 mm to the edges at the corner of the sheets.

8. Health and safety aspects

While the sheets are being processed, dust will be released which may irritate airways and eyes. It is recommended that a minimum P2 dust mask and safety goggles be worn. Appropriate dust extraction or proper ventilation should be used depending on the room in which the work is being carried out or the equipment being used. Long-term exposure to dust may be harmful to health.



9. Handling

The sheets are packed on pallets. They must be kept dry. The sheets must be horizontally stacked on a flat surface. The sheets must always be sufficiently supported so that they do not sag. The sheets must be stored in a dry ventilated space.

If the sheets do become wet in the packing, all packaging must be removed and the sheets must be wiped dry and placed in a way that they can dry completely. A sheet must always be lifted from a stack by two people and then be carried on edge.

10. Warranty

All ETERPAN® RWU comes with a 15 year warranty, supplied upon completion of the project in accordance with the completed Quality Assurance sheet.