

# DonProof TG

Reinforced TPO waterproofing membrane



## Description

DonProof TG is a synthetic waterproofing membrane produced from thermoplastic olefin and polypropylene with glass fibre reinforcing mat. DonProof TG is manufactured from two different contrasting layers combined to produce a single layer membrane with high mechanical properties and weather resistance.

## Applications

DonProof TG is welded together to produce a continuous waterproofing membrane for many applications including:

- ▲ Lining of artificial lakes, ponds and tanks.
- ▲ Basements and underground structures.
- ▲ Areas exposed to weathering including roofs, gardens and landscapes.

## Advantages

- ▲ High dimensional stability.
- ▲ Two layers with contrasting colour to detect any failure.
- ▲ High UV resistance.
- ▲ Excellent resistance to puncture and root.
- ▲ Long life expectancy with high performance.
- ▲ Available in a grade for contact with potable water.

## Method of Use

DonProof TG must be installed by experienced and qualified personnel.

## Surface Preparation

Surface must be clean, sound and dry. Remove any poorly attached materials or contaminations. Cover or remove any sharp elements which could damage the membrane.

## Application

Use a manual or an automatic hot air welding machine with a pressure roller to join the overlapping membrane sheets together. The width of the weld must be at least 40 mm.

Adjust the temperature and machine speed of the air welding machine according to the ambient conditions.

To ensure all the welding is done correctly, all seams must be tested with screw driver or steel needle after the joint has cooled.

Weak welds must be repaired immediately with a welding tool.

A range of factory made accessories and junction pieces are available including corner detailing, termination bars and membrane adhesive.

## Packaging

DonProof TG is available in 1.2, 1.5, 1.8 and 2.0 mm thick with roll dimensions of 2.10 x 25 m or 1.50 x 30 m.

## Storage

DonProof TG rolls must be stored horizontally and in parallel in their original packaging, away from direct sunlight in cool and dry conditions.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

## Cautions

It is recommended to be in a well-ventilated area when welding DonProof TG membrane.

For further information refer to the Material Safety Data Sheet.

## More from Don Construction Products

A wide range of construction chemical products are manufactured by DCP which include:

- ▲ Concrete admixtures.
- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

# DonProof TG

| Technical Properties:                                    | DonProof TG 120  | DonProof TG 150                               | DonProof TG 180        | DonProof TG 200        |
|--|--|---|------------------------|------------------------|
| Thickness:<br>EN 1849-2                                  | 1.2 mm   | 1.5 mm  | 1.8 mm                 | 2.0 mm                 |
| Colour:  | Standard top colour is grey. Available in different colours upon requested |   |                        |                        |
| Density:<br>EN 1849-2                                    | 1.10 kg/m <sup>2</sup>   | 1.37 kg/m <sup>2</sup>                        | 1.64 kg/m <sup>2</sup> | 1.82 kg/m <sup>2</sup> |
| Elongation:<br>(tensile strength)<br>EN 12311-2          |  |   |                        |                        |
| Longitudinal   | 700% (600 N/50mm)  | 700% (650 N/50mm)                             | 700% (750 N/50mm)      | 700% (800 N/50mm)      |
| Transversal  | 700% (550 N/50mm)  | 700% (600 N/50mm)                             | 700% (750 N/50mm)      | 700% (800 N/50mm)      |
| Tear resistance:<br>EN 12310-1                           |  |   |                        |                        |
| Longitudinal   | 390 N  | 450 N   | 500 N                  | 600 N                  |
| Transversal  | 290N   | 400 N   | 450 N                  | 550 N                  |
| Puncture resistance:<br>Static indentation<br>EN 12730-B |  |   | ≥ 25 kg                |                        |
| Dynamic indentation<br>EN 12691-B                        |  |   | ≥ 1000 mm              |                        |
| Watertightness:<br>(60 kPa) EN 1928                      |  |   | Nil                    |                        |
| Cold flexibility:<br>EN 495-5                            |  |   | ≤ -40°C                |                        |
| Dimensional<br>stability:<br>EN 1107-2                   |  |   | ≤ 0.1%                 |                        |
| Hail resistance:<br>EN 13583                             |  |   | ≥ 26m/s                |                        |
| Joint tensile strength:<br>EN 12317-2                    |  | Pass (specimen fails outside the bonded area) |                        |                        |
| Joint peel strength:<br>EN 12316-2                       |  |   | ≥ 58 N/cm              |                        |
| Resistance to<br>artificial UV<br>EN 1224 for 5000 h     |  | No surface damage or significant changes      |                        |                        |
| Water vapour<br>permeability:<br>EN 1931                 |  |   | 50,000 μ               |                        |
| Fire rating:<br>EN 13501-1                               |  |   | Class E                |                        |

**Note:**

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