

# TECHNICAL DATASHEET

## GS PE RF BG S

### HDPE MEMBRANE FLEECE BACKED

**GreenShield™ PE Membrane** is a high performance, heat weldable, single side fleece backed Polyethylene (HDPE) sheet, manufactured and supplied in thickness of 1.2 mm, designed for waterproofing basements and podiums of new buildings. The membrane is designed for adhesion to RCC for easy application below rafts and reinforcements.

Based on advanced polymer chemistry, the membrane has excellent resistance to chemical acids, bases, alkalis, salts and other corrosive materials, while providing a barrier to water seepage from below ground. The sheet remains flexible over years, maintaining its integrity and continuing to provide protection.

High mechanical properties of the membrane ensure superior puncture resistance, breaking and tearing strength, while enabling excellent heat weld for fusion along the edges.



## Features & Benefits

- ◇ Supplied in pre-manufactured standard thickness. No need to worry of thickness variation at site, unlike liquid applied systems
- ◇ Outstanding puncture resistance, high breaking and tearing strength, with very high peel strength of seam joints and heat welds
- ◇ Chlorine free, plasticizer free, phthalate free. Environmentally friendly and safe for humans
- ◇ Exceptional resistance to heat, UV, Ozone, bacteria, chemical, acid corrosion
- ◇ Resistance to root penetration, suitable for green roofs
- ◇ Continuous serviceability from -30°C to 100°C - without cracking, tearing or brittleness failure

## Application Areas

- ◇ Basement Waterproofing
  - ◇ Below Raft
  - ◇ Side Walls
- ◇ RCC Podiums
- ◇ Car Parks
- ◇ Roads & Bridges
- ◇ Canals, Subways, Tunnels & Underpass
- ◇ Underground Metro Stations

## Packing, Storage & Coverage

ROLL DETAILS	Thickness (mm)	1.2	1.2	1.2
	Width (mtr)	1.2	1.6	2.0
	Length (mtr)	20	20	20
	Sq.mts (mtr <sup>2</sup> )	24	32	40
	Weight (kgs)	23	30	37
	STORAGE	Store membranes in dry and clean conditions and in their original, closed wrapping away from sources of chemical contamination, damage, ignition sources and open flame. Shelf life is beyond 5 years. Exercise caution when lifting, moving, transporting, storage and handling to avoid puncture and physical damage.		
COVERAGE	The dimensions of the membrane are calculated to cover the substrate, including seam overlaps. <b>Standard Seams:</b> 75 mm <b>Seams with mechanical anchoring:</b> 150 mm <b>Upstands:</b> additional length of 150 mm			



**GreenShield**

Heatshielding & Waterproofing Your Roof

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PROPERTY	GS PE 1.2 RF BG S
Nominal Thickness   mm; ASTM D751	1.2 ± 10%
Typical Weight   Kg/m <sup>2</sup>	0.92 ± 10%
Breaking Strength   Kg/cm <sup>2</sup> ; MD/TD; ASTM D 412	95 Min 110 Typical
Elongation at Break   %, MD/TD; ASTM D 412	60 Min 80 Typical
Tearing Strength   Kg/cm; MD/TD; ASTM D 412	75
Puncture Resistance   Kg; ASTM D751	20
Brittleness Point   °C; ASTM D 2137	-30°C
Linear Dimensional Change   %; 6hrs @ 70°C; ASTM D 1204	0.1%
Factory Seam Strength   LBF; ASTM D 751 Grab Method	66 Min 80 Typical
Weather Resistance   KJ/(m <sup>2</sup> .mm); ASTM G155	> 21,600
Water Vapour Permeance   Perms; ASTM E96, Procedure B	0.10 Max

**Note & Disclaimer:** For latest updates and additional info, please consult our website at [www.greenshield.co.in](http://www.greenshield.co.in). Testing results and/or copies of Approval Documents for above mentioned membranes are available on request.

The technical details, recommendations and other information contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is user responsibility to ensure that product is used and handled correctly and in accordance with applicable standards and recommendations and only for the intended purpose. We reserve the right to update information without prior notice to reflect ongoing research and development program. Country specific recommendations, considering local standards, practice codes, building regulations and industry guidelines, may effect installation recommendations. The supply of our products and services is subject to terms, warranties and exclusions available to you on request.