



THE RE-SYSTEMS GROUP

**LLDPE Turbo Sheet 0.5mm Reinforced with 200 GSM Geotextile
Protection Sheet GEL-TECH SYSTEM
Anti-Root Membrane**

Division: 07260, 03300

1.0 PRODUCT NAME

**LLDPE Turbo Sheet 0.5 mm
Class A Protection Sheet/Vapor Retarder
ASTM E 1745 Class A**

2.0 MANUFACTURER REPRESENTATION

All Aspects Insulation Materials
P.O.Box: 39613, Sharjah, UAE

Technical Assistance

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3.0 PRODUCT DESCRIPTION

LLDPE 0.5mm Reinforced Composite Turbo Sheet is a high performance slab vapor retarder and waterproofing protection sheet developed for GEL-TECH composite waterproofing systems GT-350 and GT-500. It is also used to control radon, methane, sulphates and other soil contaminants. It has high resistance to root perforations and can be used in areas where anti root properties are required.

3.1 COMPOSITION

LLDPE 0.5mm reinforced composite Turbo Sheet is made with only high-grade virgin polyolefin resins. The manufacturing process for **LLDPE 0.5mm reinforced composite Turbo Sheet** is a first melt, three layer, co-extruded system combining 2 layers of U.V stabilized polyethylene, a high strength cord grid with a non-woven, post consumer recycled geo-textile backing laminated into the HDPE.

LLDPE 0.5mm reinforced composite Turbo sheet weighs approximately 135 lbs per roll.

4.0 TECHNICAL DATA

Applicable Standards

American Society for Testing & Materials (ASTM)

- ASTM E 1745** Standard Specification for Water Vapor Retarders used in Contact with Soil or Granular Fill Under Concrete Slabs.
- ASTM E 154** Standard Test Methods for Water Vapor Retarders used in Contact with Earth Under Concrete Slabs, on Walls, or as a Ground cover.
- ASTM D 1709** Standard Test Methods for Impact Resistance of Plastic Films by the Free Falling Dart Method.
- ASTM E 96** Standard Test Method for Water Vapor Transmission of Materials.
- ASTM D 882** Standard Test Method for Tensile Properties of Thin Plastic Sheeting.
- ASTM E 1643** Standard Practice for installation of Water Vapor Retarders used in Contact with Earth or Granular Fill Under Concrete Slabs.

Table 1: Physical Properties of LLDPE Turbo sheet 0.5mm reinforced Protection Sheet/Vapor Retarder

Classification	ASTM E 1745	A
Water Vapor Permeance	ASTM E 96	.0185 perms
Tensile Strength	ASTM E 154-93 (ASTM D 882)	190 lbf
Puncture Resistance	ASTM D-4833	> 100 lbf
Dart Impact Strength	ASTM D 1709	1.75 lb

5.0 INSTALLATION

LLDPE 0.5mm reinforced composite Turbo sheet is applied over Turbo-Seal in horizontal and vertical applications as a protection barrier. Press **LLDPE 0.5mm reinforced composite Turbo Sheet** into applied Turbo-Seal, overlapping seams a minimum of 6 inches and seal with Turbo Seaming Tape or heat weld. All penetrations must be sealed with a dual layer of Turbo-Seal and **LLDPE 0.5mm reinforced composite Turbo sheet** and sealed with Turbo Seaming Tape or heat weld.

LLDPE 0.5mm reinforced composite Turbo sheet can also be used as a Class A vapor barrier. Install over tamped earth, sand or aggregate base by unrolling and completely covering area to receive building slab or specified area. Overlap all seams a minimum of 6 inches and seal with Turbo Seaming Tape or heat weld. All penetrations must be sealed with **LLDPE 0.5mm reinforced composite Turbo sheet** and Turbo Seaming Tape per manufacturer's recommendations.

6.0 AVAILABILITY & COST

LLDPE 0.5mm reinforced composite Turbo sheet is available nationally through our network of building supply companies. Contact our corporate office for a distributor in your area.

7.0 WARRANTY

We warrant and guarantee our specifications as published. RE-Systems Group, USA published test results are based upon accepted industry practices as well as the test methods called for and listed on our test documents. We believe, to the best of our knowledge, that our published results are accurate, reliable and represent our vapor retarder membrane. RE-Systems Group, USA cannot control site conditions and improper installation practices. Therefore, no warranty, expressed or implied, is given, including those of merchantability, fitness for a particular purpose or any other matter with respect to the product unless specified as part of RE-Systems Group.

8.0 MAINTENANCE

No maintenance is required.

9.0 TECHNICAL SERVICES

Technical services for all of our products may be obtained by contacting our corporate office.

10.0 FILING SYSTEMS

Product brochures are available from RE-Systems Group, USA distributors, sales representatives, the manufacturer and on our website.

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