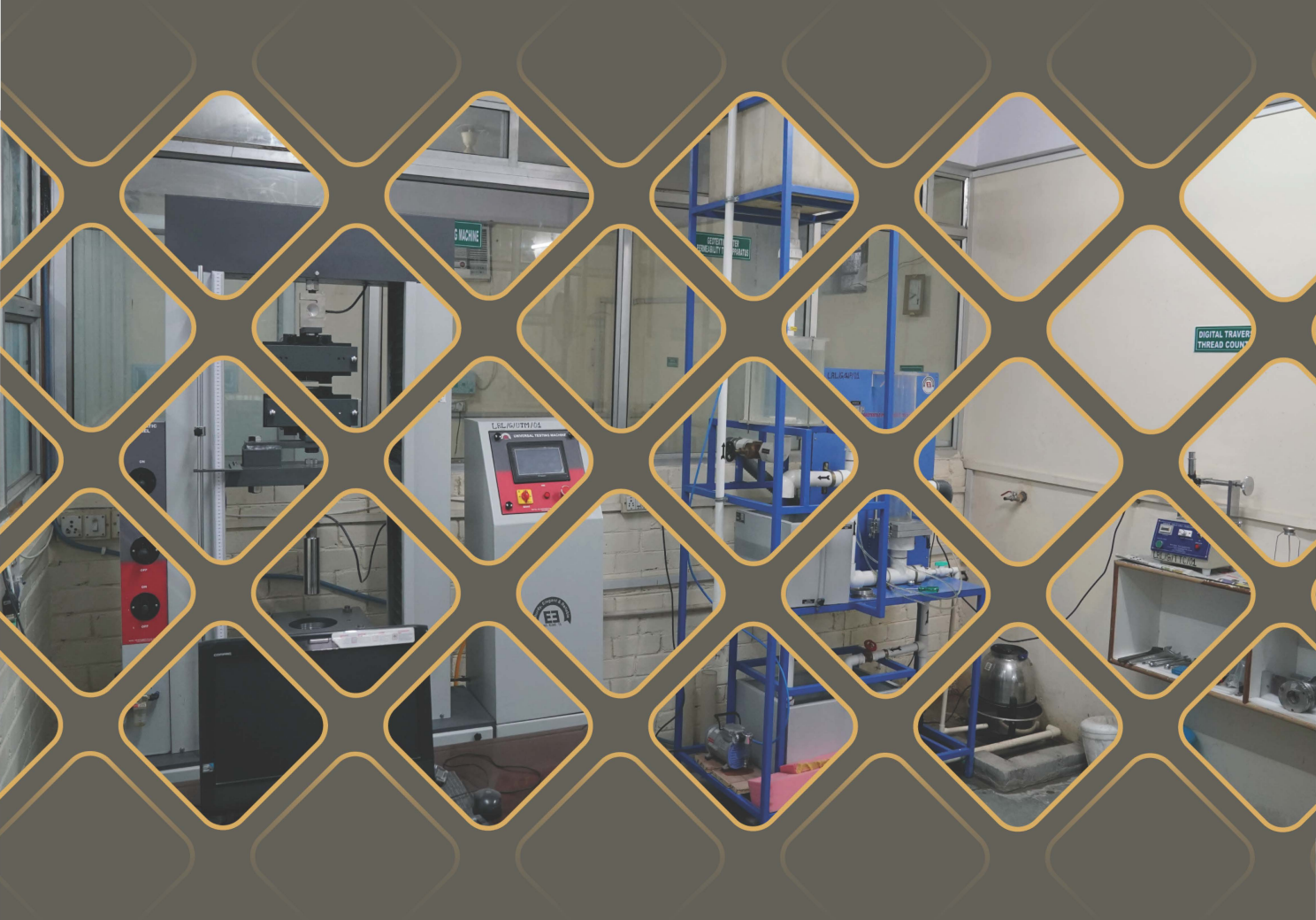


Geosynthetics And Textile Testing

“Global Performance with Local Presence”



NABL Accredited Laboratory as Per
ISO/IEC: 17025 & 17043

Landmark Material Testing And Research Laboratory Pvt. Ltd. (LRL) A super specialized NABL accredited laboratory of international repute working in the field of Mechanical testing of Textile materials and Geosynthetics. LRL, one of the First of its kind in country, has acquired extensive capacity of Specialized testing, Research & Development and Product Upgradation of Geosynthetics and Textile materials. Our dedicated technical teams supplemented with well developed infrastructure committed to deliver highest standards of quality testing and customer satisfaction.

The test of geosynthetics are classified in two major groups:

- a. Geosynthetics materials
- b. Soil-Geosynthetic interaction parameters

Geosynthetics Materials

Geotextile (Woven & non Woven)

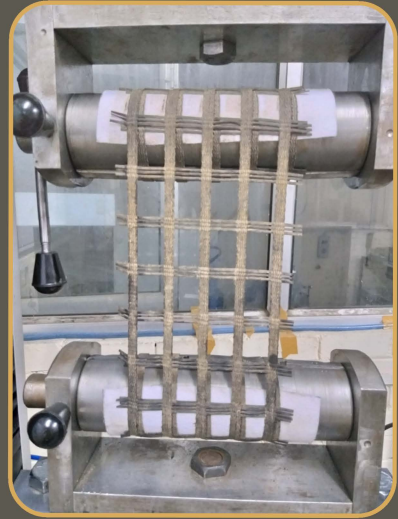
- 1. Mass per Unit Area (IS 14716/ ASTM D 5261)
- 2. Nominal Thickness (ASTM D 5199)
- 3. Wide Width Tensile Strength and Elongation (IS 13162 (Part 5)/ ASTM D 4595)
- 4. Static Puncture Strength (CBR Push Through) (ASTM D 6241/ ISO 12236)
- 5. Apparent Opening Size (ASTM D 4751/ IS 14294)
- 6. Grab Breaking Load & Elongation (ASTM D 4632)
- 7. Dynamic Perforated Test (Cone Drop Test) (IS 13162 (Part 4)/ ISO 13433)
- 8. Trapezoid Tearing Strength (ASTM D 4533)
- 9. Water Permeability by Permittivity (IS 14324 /ASTM D 4491M/ ISO 11058)
- 10. Index Puncture Resistance (ASTM D4833)
- 11. Tensile Test for Joints/Seam for wide -width strip method (ISO 10321)
- 12. Seam Efficiency (ISO 10321)
- 13. Bursting Strength by Ball Burst (ASTM D 3787)
- 14. Bursting Strength Test (IS 1966(Part 1)/ ASTM D 3786)



Geotextile

Geogrid

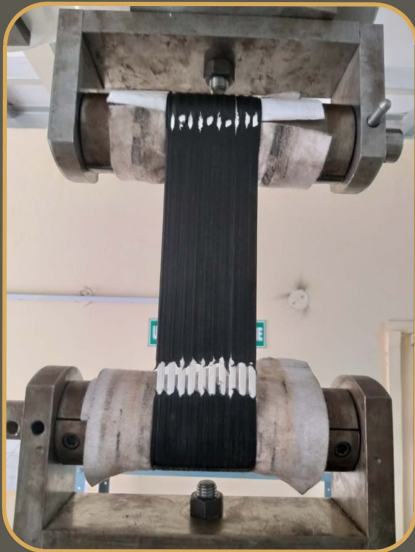
1. Tensile Strength & Elongation (ASTM D 6637 /ISO 10319)
2. Thickness (Rib & Junction) (ASTM D 5199)
3. Mass Per Unit Area (ASTM D 5261)
4. Aperture Size



Geogrid

Geotrap/Paraweb

1. Tensile Strength & Elongation (ISO 10319)
2. Nominal Thickness (ASTM D 5199)



Geotrap



Geomembrane

Geomembrane

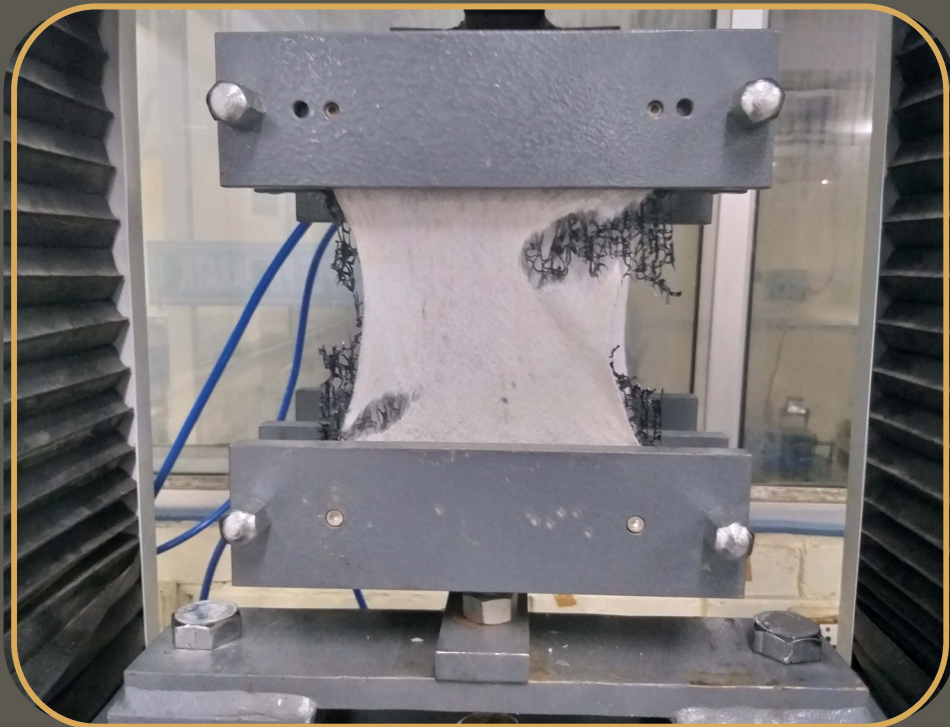
1. 2% Secant Modulus (ASTM D 5323)
2. Density & Specific Gravity of Plastic and Related Products (ASTM D 792)
3. Tensile Strength of Geomembrane and Elongation (ASTM D 6693)
4. Tensile Properties & Elongation (ASTM D 638)
5. Melt Flow Index Test (ASTM D 1238)
6. Index Puncture Resistance (ASTM D4833)
7. Mass Per Unit Area (ASTM D 5261)
8. Carbon Black Content (ASTM D 4218)

Geocoir

1. Mass Per Unit Area (ASTM D 5261)
2. Tensile Strength & Elongation (ISO 10319)
3. Nominal Thickness (ASTM D 5199)
4. Water Permeability by Permittivity (IS 14324 /ASTM D 4491M /ISO 11058)
5. Light Penetration (ASTM D 6567)

Geocomposite

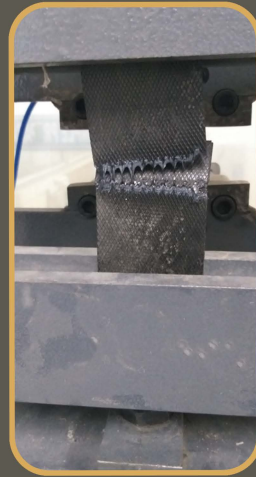
1. Mass per Unit Area (IS 14716/ ASTM D 5261)
2. Nominal Thickness (ASTM D 5199)
3. Wide Width Tensile Strength and Elongation (IS 13162 (Part 5)/ ASTM D 4595)
4. Static Puncture Strength (CBR Push Through) (ASTM D 6241/ ISO 12236)
5. Apparent Opening Size (ASTM D 4751 /IS 14294)
6. Water Permeability by Permittivity (IS 14324 /ASTM D 4491M /ISO 11058)
7. In Plane Flow (ASTM D 4716/ ISO 12958)



Geocomposite

Geocell

1. Peel Strength (ISO 13426 part 1)
2. Black carbon Content (ASTM D 4218)
3. Thickness at Cell Wall (ASTM D 5199)
4. Density (ASTM D 792)



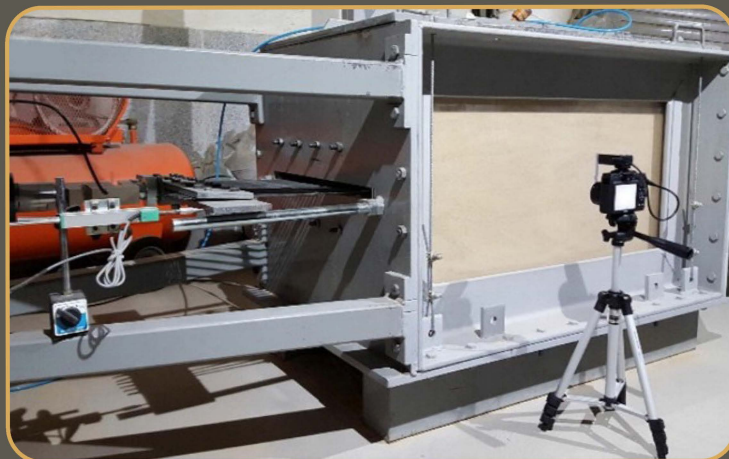
Geocell

Paving Fabrics

1. Asphalt Retention of Paving Fabric (ASTM D 6140)

Soil-Geosynthetic Interaction Parameters

1. Interface Friction Testing (ASTM D 5321)
2. Connection/ Pullout Testing (ASTM D 6706)
3. Installation Damage Testing (ASTM D 5818)
4. Clogging Potential (ASTM D 5101)
5. Road Base and Asphalt Reinforcement



Pullout Friction

Textile Materials

Wools

1. Tensile Strength of Wool Felt (IS 1719)



Wrap Reel

Yarn

1. Determination of Twist in Yarn (ISO 17202/ IS 832 (Part 1 & 2))
2. Linear Density of Yarn Spun (IS 1315)
3. Linear Strength (IS 1671)
4. Single Thread Strength & Elongation (IS 1670)



Horizontal Flammability

Fabrics

1. Breaking Strength & Elongation (IS 7016 (Part 2))
2. Mass per Unit Area (IS 7016 (Part 1))
3. Tear Strength (IS 7016 (Part 3))
4. Breaking Force & Elongation by Grab Method (ASTM D 5034)
5. Breaking Force & Elongation by Strip Method (ASTM D 5035 /IS 1969 (Part 1))
6. Bursting Strength by Diaphragm Bursting Test Method (IS 1966(Part 1) /ASTM D 3786)
7. Flammability and Flame Resistance (IS 11871)
8. Horizontal Flammability (IS 15061)
9. Length and Width (ASTM D 3773)
10. Oil Repellency (ISO 14419)
11. Thickness (ASTM D 1777)
12. Thread per unit Length (IS 1963)
13. Water Repellency by Spray Test (IS 390)
14. Water Repellency by Cone Test (IS 7941)
15. Weight per Square Meter and Linear Meter (ASTM D 3776)
16. Thread Per Unit Length (ASTM D 3775)

Head Office

G1/200, RIICO Industrial Area
Mansarovar, Jaipur – 302020
Ph.:0141-4022067, Mob.:9414297329; 9509414231
E-mail: lrljpr@gmail.com
www.lrlabs.com, www.lrlab.com

Our Associates

New Delhi

207-208 Local Shopping Complex
(Lal Market), H-Block, Vikaspuri,
New Delhi – 110018
Mob.: 09313752011

Noida (U.P.)

B-501 Opposite Fortune Hotel ,
Sector-19, Noida, Uttar Pradesh
Ph.: 09810543540

Haldwani (U.K.)

Tikonia Road, Haldwani
Dist. Nainital
Mob.: 09837036111

Bhopal (M.P.)

Shri Jin Consulting Engineers
E-4/408, Arera Colony, Behind 10 No.
Market, Bhopal, Madhya Pradesh
462016
Mob.: 09680829888

Hooghly (W.B.)

BPC Village, Khusiganj,
Hooghly, West Bengal, Pin: 712410
Mob.: 09434043965



LANDMARK

Material Testing And Research Laboratory Pvt. Ltd.