

**INTRODUCTION**

- Strata Geosystems (India) Pvt. Ltd. ([www.strataindia.com](http://www.strataindia.com)), established in 2004, is a joint venture with Strata Systems Inc., U.S.A. ([www.geogrid.com](http://www.geogrid.com)).
- Strata Systems Inc., U.S.A. has been manufacturing StrataGrid since the last 15 years and is recognized as one of the largest producers of geogrids in the world.
- Strata India began manufacturing geogrids at its plant in Daman in early 2009 with full technical expertise and support from its JV partners in U.S.A. In line with Strata’s commitment to quality, it received an ISO certification for its plant.
- Besides manufacturing, Strata India provides end-to-end geosynthetic solutions for reinforced soil walls, soil stabilization, ground improvement, river training & coastal protection, railway track-bed stabilization and engineered landfills.
- Strata’s committed team of experienced and dedicated civil engineers, supervisors and technicians ensure timely and infallible installation.

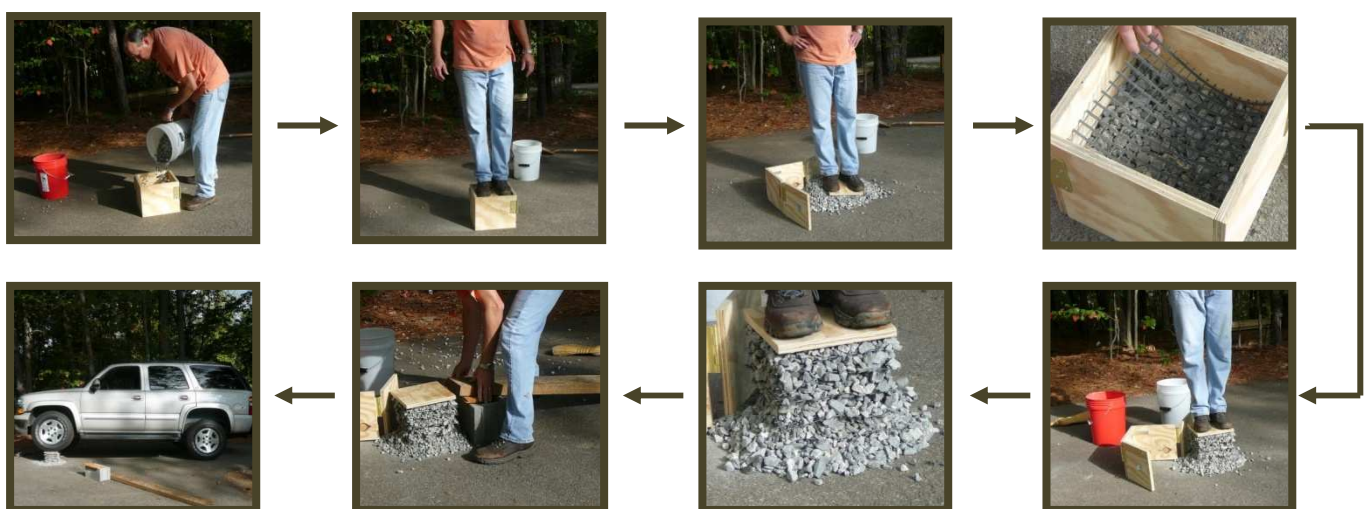


**Factory at Daman**

***Company Mission***

Strata’s mission is to make available an assortment of high quality geosynthetic products and applications to India’s Civil Engineering and Construction Industry. It always strives to deliver better customer experience in installation & customer care.

***Concept of Reinforcement using StrataGrid***



## StrataGrid

### Features

- StrataGrid is the original precision knitted geogrid.
- StrataGrid is manufactured using super-high tenacity PET fibres having high molecular weight and low CEG number.
- StrataGrid's coating process exposes the polyester fiber to much lower heat than any other coated geogrid, thereby minimizing fiber degradation.
- A proprietary UV stabilized saturation coating provides enhanced chemical and mechanical benefits.
- The Strata process ensures superior quality, consistency and dimensional stability.
- StrataGrid offers superior junction integrity and higher soil interaction compared to any other polyester grid.
- StrataGrid has been tested at renowned laboratories such as TRI (USA), BTRA (Mumbai), I.I.T. (Bombay), BICS (UK).



### ***Not all Geosynthetics are created equal***

The dilemma facing most design engineers is that all geosynthetic reinforcements are NOT created equal. The long-term properties of a reinforcement material are polymer and product dependent. It is important for the design engineer to specify a minimum certifiable requirement for the polymer itself and ensure that the material has been properly tested in accordance with international standards.

StrataGrid requires that the polyester (PET) fibres possess a molecular weight greater than 25,000 g/mol tested as per GRI: GG8 and a Carboxyl End Group number less than 30 tested as per GRI: GG7.

Strata is proud to announce that StrataGrid has become the highest selling Geogrid in India.

### ***StrataGrid product line consists of:***

- 11 styles of uni-axial grids with strengths ranging from 30 kN/m to 300 kN/m
- 5 styles of bi-axial grids with strengths ranging from 15x15 kN/m to 100x100 kN/m

### ***Applications***

- |   |                           |
|---|---------------------------|
| • Segmental Retaining Walls             | • Landslide Repair        |
| • Panel Faced Retaining Walls           | • Reinforced Foundations  |
| • Reinforced Steep Slopes               | • Track Bed Stabilization |
| • Reinforced Embankments Over Soft Soil | • Landfill Embankment     |

**StrataWeb**

- StrataWeb Geocell (an ISO 9001 : 2000 certified product) is a lightweight, expandable confinement system that creates an economical, eco-friendly foundation or an erosion barrier.
- Strata supplies leading edge solutions to any soil stabilization problem and sets standards in quality, expertise, and service while never losing sight of our commitment to environmental-friendly building practices by providing innovative as well as cost-effective products and solutions.
- Made from high density polyethylene (HDPE), these honeycombed cells filled with locally available infill materials provide a solution for erosion control, load support and earth retention projects.
- Our technology and industry applications include:
  - ❖ **Paved Highways and Unpaved Roads** – Paved National & State Highways, unpaved access roads, haul and service roads, structural pavement reinforcement and road rehabilitation, green shoulders, road widening
  - ❖ **Railway infrastructure** – Sub-ballast confinement for new and maintenance of old tracks
  - ❖ **Mining & Logging** - Haul roads, slope protection, earth retention, site rehabilitation
  - ❖ **Gas, Oil & Energy** - access and service roads, pipeline and tank protection, tank pad foundations, wind farms, terminals and depots
  - ❖ **Utilities & Telecommunications** - electrical, cellular and repeater stations, tower and pylon support
  - ❖ **Ports & Shipping** – Roads on soft soil, access roads, container yards and platforms



**Features**

GENERAL	LOAD SUPPORT	SLOPE PROTECTION
<p><b>Main Features</b></p> <ul style="list-style-type: none"> <li>• Fast &amp; speedy installation</li> <li>• All-weather installation</li> <li>• Minimal labor involvement</li> <li>• Reduces project time and costs</li> <li>• Uses low quality, local or recycled infill</li> </ul> <p><b>Sustainable Solution</b></p> <ul style="list-style-type: none"> <li>• Environmentally and economically sustainable</li> <li>• Reduces carbon footprint</li> <li>• Preserves quarry resources</li> </ul>	<p><b>Cost Effective</b></p> <ul style="list-style-type: none"> <li>• Increases subgrade strength by several factors</li> <li>• Increases bearing capacity by 10 – 13 times</li> <li>• Reduces infill needs upto 50%</li> <li>• Withstands heavy dynamic and cyclical road/rail traffic</li> </ul> <p><b>Durability</b></p> <ul style="list-style-type: none"> <li>• Dimensionally stable</li> <li>• Has a Design life of 50 years under static and cyclic loading</li> </ul>	<p><b>Most Effective Soil and Slope Protection System</b></p> <ul style="list-style-type: none"> <li>• Prevents soil erosion</li> <li>• 3D cell-soil-plant interlock</li> <li>• Vegetated or hard infill / surface</li> </ul> <p><b>Superior Site Ecology</b></p> <ul style="list-style-type: none"> <li>• Perforations enable passage of water, nutrients and soil organisms</li> <li>• Interlocking root growth stabilizes soil mass</li> <li>• Enhances landscape restoration</li> <li>• Gives natural aesthetics</li> </ul>

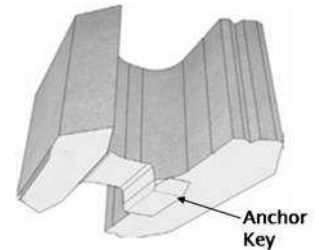
SYSTEMS

**StrataBlock**

StrataBlock reinforced soil wall is a composite system consisting of StrataBlock units in combination with a mass of reinforced soil stabilised by horizontal layers of StrataGrid.



StrataBlock wall units have a built-in batter and are self-aligning. They are cast in-situ with an inter-locking system with the help of an anchor built into each unit. Stone Columns formed between the blocks are an integral part of



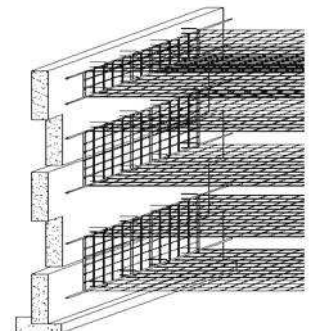
StrataBlock wall adding support and stability to the wall. StrataBlock offers ease of operation due to identical segmental units and can tolerate higher differential settlements. It provides 100% soil coverage of grid reinforcement at every layer and is the most economical fascia option amongst all.

**StrataWall**

StrataWall is a T shaped concrete panel faced reinforced soil wall system. StrataGrid is connected to



the concrete panels using a positive mechanical connection of galvanized steel loops and a PVC covered galvanized steel rod. StrataWall is a near vertical reinforced soil wall which may be constructed as a single monolith or in steps. The facing being large precast slabs of around 3



sq.mts. can be rendered with aesthetically pleasing surfaces. StrataWall is a cost effective alternative to comparable steel soil reinforcement. It provides 90% soil coverage of grid reinforcement at every layer.

**StrataGreen**

StrataGreen, an environment-friendly green-faced solution, can substantially increase the usable land



for change-of-grade applications. StrataGreen can lead to many interesting benefits such as creating usable space at the top or toe of the slope and eliminating the cost of concrete facing elements. StrataGreen offers the



land developer the flexibility to create stable structures that blend with the natural contours and the green landscape. StrataGreen can therefore be constructed steeper than the soil's natural angle of repose.

INDICATIVE CLIENTELE

1. **Location:** NH8 Surat – Bharuch  
**Client:** IRB Infrastructure Developers Ltd.
2. **Location:** NH3 Dhule – Pimpalgaon  
**Client:** Soma Enterprises Ltd.
3. **Location:** NH58 Meerut, U.P.  
**Client:** Gayatri Projects Limited
4. **Location:** NH67 Thanjavur - Trichy  
**Client:** Madhucon Projects Ltd.
5. **Location:** NH7 Madurai – Kanyakumari  
**Client:** IRCON
6. **Location:** NH6 Durg – Maharashtra Border  
**Client:** IRB Ashoka Buildcon Limited
7. **Location:** NH7 Seoni, M.P.  
**Client:** Meenakshi Infrastructure
8. **Location:** NH31C Bongaigaon, Assam  
**Client:** Gayatri Projects Limited
9. **Location:** NH45B Madurai – Tuticorin  
**Client:** Madhucon Projects Ltd.
10. **Location:** ORR, Hyderabad  
**Client:** GVR Infra
11. **Location:** Hi Tec City, Hyderabad  
**Client:** IJM India
12. **Location:** Krisp IT Park  
**Client:** VSL
13. **Location:** Gill Chowk, Ludhiana  
**Client:** Deepak Buildcon Infrastructure
14. **Location:** MR-10, Indore  
**Client:** PATH India Ltd.
15. **Location:** Dongargarh, Chhattisgarh  
**Client:** S. P. Singla Constructions
16. **Location:** Kalyan Station  
**Client:** Konark Infrastructure

