GRIHA Product Catalogue
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Sustainable buildings and construction: The approach
Life cycle of buildings

- Construction
- Buildings
- Operation
- Maintenance and retrofit
- Demolition

Sustainable Buildings and construction: understanding intensity of energy/resource use

Building energy and resource consumption

- Construction (10-20% of energy consumption)
- Building operation (80-90% of energy consumption)

Building cost components:

- Materials
- Construction equipments
- Labour
- Finance
- Enabling expenses
- Admin expenses
- Profits

Electricity end uses - resid. bridge:

- Cooling (10%)
- Heating (15.66%)
- Lighting (15.91%)
- Space heating (13.87%)
- Cooking (14.98%)
- Others (14.66%)

Diagram showing energy distribution.
Material consumption: cement, steel and burnt bricks are key building materials

End of life resources

Composition of construction and demolition waste

- Soil/Sand, Gravel 36%
- Bitumen 23%
- Metals 5%
- Masonry/Brick 31%
- Concrete 2%
- Wood 2%
If we do not adopt sustainable processes: what happens?

Buildings

Saving on limestone mining through use of improved cement

Demand on limestone depending on type of cement in low-demand scenario

GRIHA: Some key drivers to rethink design approach

Promoting sustainable consumption and production through reduction in material use (alternative materials, reduce structural weight, alternate construction techniques, use of local materials, use of industrial waste such as flyash), promoting recycling and reuse

Minimize demand, use efficient materials and systems, use of controls

Mandatory usage of renewable energy sources

Reduce embodied energy for construction
POST TENSIONED SLABS being cast in situ

Source: GRIHA Registered Project

[Image of construction site]

[Image of a hilltop building]
Need?

- To ease the GRIHA process for clients: they will have an easy directory to look up and one component of documentation is removed.

- To consolidate data on building materials

- To reduce documentation for GRIHA rating system
Advantages

- Product approved by ADaRSH for use in GRIHA and associated rating systems
- All information and technical parameters cross-checked by GRIHA to reduce information gaps

Search by Criterion or Product Typology
## Integration with GRIHA documentation website

### Compliances (files to be attached)

| 15.2.1. | ☐ Fly ash use in RC: Minimum 15% replacement of ordinary Portland cement with fly ash by weight. Provide supporting document from the manufacturer of the cement specifying the fly ash content. | [GRIHA Product Catalogue](#) Lookup GRIHA Product Catalog [GRIHA Product Catalogue](#) |

| 15.2.2. | ☐ For use of fly ash in building blocks of load bearing and non-load bearing walls: Minimum 100% load bearing and non-load bearing walls. Provide supporting document from the manufacturer of the blocks used in infill wall system (mention Product code from the GRIHA manufacturer brochure) | [GRIHA Product Catalogue](#) Lookup GRIHA Product Catalog [GRIHA Product Catalogue](#) |

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## Process for registration of products in the GRIHA Product Catalogue

1. **Download the GRIHA Product Catalogue Registration form and Product Specific questionnaire**
2. **Duly fill both the forms** (remember to insert your digital signatures in the registration form)
3. **Prepare all the documents as listed in the two forms** (soft copies)
4. **Email the completed forms along with necessary documents (soft copies only) to ADaRSH**
5. **ADaRSH evaluates the documentation**
The following products are being accepted under GRIHA product Catalogue at the moment

- Internal door and window frames
- Walling – blocks/bricks
- Cement
- Composite wood products for internal application
- Concrete admixtures
- Controls
- External Glazing
- Flooring tiles
- Glass for internal applications
- Grass Pavers
- Gypsum for internal partitions/panelling/false ceiling
- Insulation
- Landscape irrigation systems
- Low-flow fixtures for water conservation
- Mineral fibre tiles – for internal partitions/panelling/false ceiling
- Paints and Coatings – interior as well as exterior
- Stone – for flooring
- Products for internal partitions/panelling/false ceiling/in-built furniture
Examples of products which have been incorporated thus far

Wienerberger India Private Limited
Bengaluru
Contact Person
Mr. Kundan B Dige
Address
88/4 Richmond Road, Bangalore 560025
Contact Number(s)
080 41491602 – 7 / 99009102272
FAX
080 40918441
Email-Id(s)
Kundan.Dige@wienerberger.in

2 product(s)

- Porotherm HP - 150 Thermobrick
  Criteria Applicable:
  GRIHA: 14, 15, 16, 29
  SVAGRIHA: 5, 11
  Product Typology:
  Walling blocks

- Porotherm HP - 200 Thermobrick
  Criteria Applicable:
  GRIHA: 14, 15, 16, 29
  SVAGRIHA: 5, 11
  Product Typology:
  Walling blocks

www.wienerberger.in
Kansai Nerolac Paints Ltd

Mumbai
Contact Person
Yatnesh Pandey
Address
Nerolac House, Ganpatrao Kadam Marg, Lower Parel, Mumbai-400013
Contact Number(s)
022-40602744 / 986756489
Email-ID(s)
YATNESH.PANDEY@nerolac.com

2 product(s)

Impression EcoClean
Criteria Applicable:
GRIHA: 26
SVAGRIHA: 12
Product Typology:
Low-VOC interior paints

Impressions 24 carat
Criteria Applicable:
GRIHA: 26
SVAGRIHA: 12
Product Typology:
Low-VOC interior paints

AGV Feniastation Pvt Ltd

Himachal Pradesh
Address
VILLAGE RAMPUR, WATER, BEHIND KALA AMB, INDUSTRIAL AREA P.O., KALA AMB, Distt. Sirmour – 173030 (HP)
Contact Number(s)
9313000931
Email-ID(s)
agvmarketing@gmail.com

3 product(s)

AGV - 1150 S/D, 1050 S/D, 1137 SW/DW, 2083 SW/DW
Criteria Applicable:
GRIHA: 17
SVAGRIHA: 12
Product Typology:
Doors & window panels and frames

AGV - 1150 S/D, 1050 S/D, 1137 SW/DW, 2083 SW/DW
Criteria Applicable:
GRIHA: 17
SVAGRIHA: 12
Product Typology:
Doors & window panels and frames

AGV - 2100 S/D, 2065, 2101, 4083 SW/DW
Criteria Applicable:
GRIHA: 17
SVAGRIHA: 12
Product Typology:
Doors & window panels and frames

www.agvfen.com