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SUSTAINABILITY LEADERS RECOGNITION INITIATIVE 2022 UNDISTRICT FURNITURE







SINGAPORE August 2023



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Hospitality F&B Residential Offices Features Arts





HOSOTOTION CONTRACTOR



Hospitality The Moo Project

01/04



Terra Nesting Table

0

0

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Dempsey Sofa

0

0



Hospitality Edmond Hotel, Rosh Pina

02/04

Lykas Side Table



Hospitality 03/04 Mondrian Duxton Singapore

Reclaimed & charred wood reception counter































F&B Gotti Restaurant

State of State

01/04

recent



Nymeria Grey Pouf

Equarius Hotel Singapore

02/04

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F&B





F&B

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Dempsey Cookhouse and Bar



F&B Atout





F&B Atout





F&B Atout

NGISII IEF



F&B Atout









Offices Ithink Consulting

01/03

Henderson Coffee Table



Yeo Leong and Peh LLC

Offices

02/03

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Max Office Table





Offices ViewQwest

03/03

/IE





Internet Made Better



Offices ViewQwest





Offices ViewQwest

03/03

GIGABYTE

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Offices ViewQwest



Offices ViewQwest







Offices ViewQwest















Events Airshow 2024













Events Airshow 2024









Events Airshow 2024







Burning Rice Fields

Landfill Wastes



The Problem













RAW MATERIALS CRUSHED INTO DENSED PELLETS



CREATE RAW MATERIALS

RECYCLED MATERIALS COLLECTED FROM THE TABLE



The Solution



MANUFACTURE PRODUCTS



CREATED FROM RECYCLED MATERIALS





CONSUMER USES THE PRODUCTS

> **USED PRODUCTS** FROM THE CONSUMER



COLLECT







GREEN

For burning rice fields

Collect rice husks and create alternatives products for building materials



The Solution


GREEN

For landfill wastes

Collect soda cans, aluminum foils and polymers and create an alternative for MDF, Particle Boards and Plyboards.



The Solution



GREEN

For deforestation

Collect teak woods and convert the wood into a wood flooring



The Solution

















Rice Husk Board

Material Specification and Applications

SPECIFICATION:

It is a sustainable eco-friendly panel product for interiors, exterior and joinery applications. It is a zero wood panel product created with high content of natural fibres derived from Agri-residues like rice husk and straw over 100PHR. It is a superior alternative to tropical wood and wood-based panel products in many ways. It is termite proof, waterproof, flame retardant, smoke suppressant (passes Class 1 / A in ASTM E84 test) and resistant to electrical short circuits. It has efficient sound absorption / acoustic properties and work as a sound barrier due to its internal homogeneous structure. It is easy to thermoform and to mould in any shape and design - just like solid surface and provide opportunities to the architects and designers to bring imaginations from drawing board to reality. It is a zero emissions product - free from hazardous formaldehyde and other VOC emissions. Its natural wood like appearance allows it to print, paint, stain, varnish, overlay veneer/laminate, CNC rout, etc. High content of natural fibres gives better physical and mechanical properties like screw holding and strength when compare to other peer products.

Sustainability GreenPro certified

Certifications ROHS, ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 certified

APPLICATION:

It can be used for exterior / interior furnishing and joinery applications. It can be used for Cabinets, wardrobes, paneling, terrace furniture, garden furniture, exterior paneling, facades, fencing, partitions, ceiling, roofing, gates, sea side homes etc..

- Housing, luxury ships/yacht,
- Sea or river side housing and furnitures
- Pool or river side furnitures.

The product is 100% recyclable and is GreenPro certified.

| Rice Husk Board is a GreenPro c projects with | ertified product and adds mer n Green Rating |
|---|---|
| Module Compliance | Maximum Points with Rice Board |
| Materials with recycled | $\star \star \star$ |
| Wood based material with FSC certification and/or rapidly renewable | $\star \star \star$ |
| Local Materials | $\star \star \star$ |
| Use of certified Green Building materials | \star |
| Composite wood with no urea formaldehyde | \star |







Floor Decking















Rice Husk Board









Doors









Facade, Roofing and Fencing



















Panelling and Partitions







Thermoform and CNC Routing















Comparative study of rice husk board with others

| DENSITY | |
|----------------------------|-------|
| RAW MATERIALS | |
| TERMITE PROOF | |
| WATER PROOF | |
| FLAME RESISTANT | |
| SCREW HOLDING | |
| CONVENTIONAL TOOLS | |
| OVERLAY LAMINATE/VENEER | |
| OUTDOOR AND INDOOR APPLIC | ATION |
| SHRINKING AND SWELLING | |
| WEATHER AND AGEING RESISAN | Γ |
| ECO-FRIENDLY | |







| RICE HUSK BOARD | PLYWOOD | MDF |
|---------------------------------------|---|--------------------------------|
| 700-800 | 650-750 | 600-700 |
| Natural fibers and Thermoplastics | Medium/Softwood, Formaldehyde, Urea/Phenol | Medium/Softwoc Formaldehyde |
| ~ | × | × |
| ✓ | For some time | × |
| ✓ | × | × |
| Above par | Above par | Below par |
| ✓ | \checkmark | ~ |
| ✓ | \checkmark | ~ |
| Both indoor & outdoor | Indoor | Only indoor |
| × | ~ | ~ |
| ✓ | × | × |
| ✓ | × | × |













Tests carried out on the samples

By the National Test House, Central Institute of Plastic Engineering & Technology (CIPET), Indian Plywood Industries Research & Training Institute (IPIRTI), Spectro Labs and SGS Labs.

| TEST | METHOD | UNIT | RESULT | TEST | METHOD | UNIT | R |
|---|-----------|--------|---------|--------------------------------|-----------|--------|----|
| DENSITY | ASTM D792 | Kg/CBM | 800.349 | TENSILE STRENGTH | ASTM D638 | MPa | |
| WATER ABSORPTION AFTER 2 HRS | IS : 2380 | % | 0.02 | COMPRESSION STRENGTH | ASTM D792 | Kg/CBM | 80 |
| WATER ABSORPTION | IS · 2380 | % | 0.12 | ELONGATION @ BREAK | IS : 2380 | % | |
| AFTER 24 HRS | | ,,, | | | IS : 2380 | % | |
| AFTER 2 HRS | IS : 2380 | % | 0.06 | | | | |
| MODULUS OF RUPTURE - | 10 • 0200 | 07 | 0.07 | MPA | IS:2380 | % | |
| AVERAGE | 13 : 2380 | 70 | 0.06 | SOFTENING | 0020 • 21 | 07 | |
| MODULUS OF RUPTURE - | IS : 2380 | % | 0.06 | TEMPERATURE @ 1 KG | 13.2300 | /0 | |
| MINIMUM INDIVIDUAL | | | | VOC EMISSIONS | IS:2380 | % | |
| MODULUS OF ELASTICITY - AVERAGE | IS : 2380 | % | 0.06 | TEST FOR TERMITE RESISTANCE | IS : 2380 | % | |
| MODULUS OF ELASTICITY - MINIMUM INDIVIDUAL | IS : 2380 | % | 0.06 | TEST FOR FUNGAL RESISTANCE | IS : 2380 | % | |
| SCREW WITHDRAWAL - FACE | IS : 2380 | % | 0.06 | TEST FOR BORER RESISTANCE | IS : 2380 | % | |
| SCREW WITHDRAWAL - EDGE | IS : 2380 | % | 0.06 | | | | |















Tests carried out on the samples

SOUND ABSORTION COEFFICIENT AS PER IS 10420:1982 AND

FREQUENCY (Hz)

By the National Test House, Central Institute of Plastic Engineering & Technology (CIPET), Indian Plywood Industries Research & Training Institute (IPIRTI), Spectro Labs and SGS Labs.

| TRANSMISSION LOSS AS PER ISO 10534-2:1998 | | | | | |
|---|----------------------------|--------------------------------|--|--|--|
| EQUENCY (Hz) | SOUND ABSORPTION CO-EFF | TRANSMISSION LOSS (dB/ 1.0) | | | |
| 125 | 0.02 | 26.19 | | | |
| 250 | 0.03 | 22.53 | | | |
| 500 | 0.04 | 32.85 | | | |
| 1000 | 0.06 | 40.20 | | | |
| 1500 | 0.06 | 44.50 | | | |
| 2000 | 0.05 | 47.33 | | | |
| 2500 | 0.05 | 45.61 | | | |
| 3000 | 0.06 | 47.83 | | | |
| 3500 | 0.08 | 46.6 | | | |
| 4000 | 0.10 | 47.56 | | | |
| Sound Transmissi | on Class (Average of Tro | anmission Loss) : 40.12 | | | |

| TEST | METHOD | LIMIT | RES |
|--------------------------|-----------------|-----------------------|------------|
| FLAMMABILITY | UL94 | 26.19 | V0 Rc |
| FLAME SPREAD INDEX | ASTM E84 : 2020 | 0 -25 Class 1 or a | 6 CLASS |
| SMOKE DEVELOPED INDEX | 0.04 | 32.85 | 10 |

UL94, is a flammability standard released by the Underwriters Laboratories of the United States of America. The standard determines the material's tendency to either extinguish or spread the flame once the specimen is ignited. Rice husk board rated V0 - burning stops within 10 seconds, similar to class 1/A







Certifications











GreenPro

क्रणिक PIRT

काष्ठ कम्पोज़िट जाँच एवं मूल्यांकन केन्द्र Center for Testing And Evaluation of Wood Composites भारतीय प्लाईवुड उद्योग अनुसंधान एवं प्रशिक्षण संस्थान INDIAN PLYWOOD INDUSTRIES RESEARCH & TRAINING INSTITUTE (भारत सरकार, पर्यावरण, वन एवं जलवाय परिवर्तन मंत्रालय का खायत संस्थान) (Autonomous Body of the Ministry of Environment, Forests & Climate Change, Govt, of India) चोस्ट बैंग. सं. 2273, तुमकुर रोड, बेंगसूर - 560 022

CENTER

Post Bag No. 2273, Tumkur Road, Bangalore-560 022. 現代代 / General: +91-80-2839 4231/32/33, 3053 4000-4001: 単明 / Fax: +91-80-3053 4008: 沢 / Grams: IPI代TI e-mail : samplecell@ipirti.gov.in, Websites : http://www.ipirti.gov.in; http://www.bamboocomposites.com



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गरग/General: +91-80-2839 4231/32/33, 3053 4000-4001, फैफा/Fax: +91-80-3053 4008; 81/ (Grams : IPIHT) e-mail : samplecell@ipirti.gov.in, Websites : http://www.ipirti.gov.in; http://www.bamboocomposites.com



TC65951800000320F

#/No. JD/ IPPL/5890/Phy-320F/2019/Chennai

TEST REPORT

Ref: Your email dated 24,12,2019

Natural fibre composite board samples were received from Samples were tested for Sound Absorption Co-efficient as per IS:10420-1982 & Transmission Loss as per ISO 10534-2:1998. The test results are as follows:

| Frequency Hz | Acoustic Property | | |
|-----------------|----------------------------------|-------------------------------|--|
| | Sound Absorption Co-efficient | Transmission Loss (dB/1.0) | |
| 125 | 0.02 | 26.19 | |
| 250 | 0.03 | 22.53 | |
| 500 | 0.04 | 32.85 | |
| 1000 | 0,06 | 40.2 | |
| 1500 | 0.06 | 44.5 | |
| 2000 | 0.05 | 47.33 | |
| 2500 | 0.05 | 45.61 | |
| 3000 | 0.06 | 47.83 | |
| 3500 | 0.08 | 46.6 | |
| 4000 | 0.10 | 47.56 | |

Note: The test results are relevant only to the material received for testing.

Sound Absorption Test Report Page 2

Sound Absorption Test Report Page 1









Certifications



| 1 | WIE - W / PART - B | |
|------------|--|----|
| | अनुवृत्त स्वनार्थ / SUPPLEMENTARY INFORMATION | IS |
| 10 | सीपतिन wedenlind हेतू संस्थी / a) Reference to sampling procedure | 50 |
| an) D) | कर करने हेरे दिन्द गय सहायक दस्तलेक न्हां प्रत्य परिणाम Supporting documents for the measurement taken and result derived | A |
| (T) (C) | shafter work argitrit में निभागित के अनुसार परिकार दीति से कोई परिकारि Deviation from the test method as prescribed in relevant work instructions, if any | No |

CIPET Test Report Page 1







CIPET : INSTITUTE OF PLASTICS TECHNOLOGY (Ministry of Chamicals & Fersilizers, Govi, of India). Guindy, Chennal - 600 032 Tel: 91-44-2225 4701-8 Fux: 01 - 44 - 22254707 E-mail: chemias@cipet.gov.in Webate: www.cipet.gov.in

Nos. Part A.B.C & D

09.05.2019

impling not done by this lab

) given in Part C

deviation from the standard t of

| सिपेट : इंस्टिट्यूट ऑफ प्लास्टिक्स टेक्नोलॉय |
|--|
| (terr of alles dates, see also) |
| 9840, 4-1 - 600 032. |
| 781 : 91-44-2225 #701-8 · 4FH : 81-44-22254707 |
| 5-Rt chenneligiopet.gov/in dieter envelopet.gov/in |
| |

रिपोर्ट सं / REPORT NO. : 60320

09.05.2019 fterm / Date :



OP

1

CONTRACT OF REAL

परीक्षण रिपोर्ट

TEST REPORT

Test Duration: 12.04.2019 to 09.05.2019

| SI. No. | Property | Standard | Unit | Results Obtained |
|------------|--|----------------|-------------------|------------------|
| t. | Tensile Strength Test Speed: 50mm/min | ASTM D-638 | MPa | 7.6 |
| 2. | Elongation @ break | ASTM D-638 | % | 2.0 |
| 3. | Flexural Strength | ASTM D-790 | MPa | 13.6 |
| 4. | Charpy Impact Strength (Unniotched) | ASTM D-6110 | kJ/m² | 6.25 |
| 5. | Compressive Strength | ASTM D-695 | MPa | 40.2 |
| 6. | Flammability | UL 94 | 342 | V ₂ |
| 7 | Heat Deflection Temperature @ 0.45 MPa | ASTM D-648 | °C | 64.45 |
| 8 | Vicat Softening Temperature @ 1 kg load | ASTM D-1525 | °C | 72.5 |
| 9 | Density | ASTM D-792 | kg/m ³ | 800.349 |
| 0. | Water Absorption For 24 hours | ASTM D-570 | 36 | 0.78 |



Contd....

CIPET : INSTITUTE OF PLASTICS TECHNOLOGY

來可 / SL No.

(Ministry of Chomicals & Fortilizers, Govt. of India)

Tel: 91-44-2225-4701-6 Fax: 91-44-22254707

E-mail: chennal@opet.gov/n Websile : www.opet.gov/n

Gundy, Chennai - 660.032.

20742



CIPET Test Report Page 2



ЧP TEST RESULTS

Date:

Sample Details : 2. Natural Fibre Composite Board Sample Size : 300MM X 300MM X 12mm Thick - 2 Nos Size (1No. With nailing & 1No. With Screwing)

60320

| SI. No. | Property | Standard | Unit | Results Obtained |
|------------|---------------------|----------------|--------|-------------------------|
| 11. | Shore 'D' Hardness | ASTM D-2240 | 375 | 49.2 |
| 12. | Surface resistivity | ASTM D-257 | emito | 5.44 X 10 ¹⁴ |
| 13. | Volume resistivity | ASTM D-257 | ohm-am | 2.55 X 10 ¹⁸ |

| | PART - D |
|------|---|
| REMA | RKS - Nil |
| 1. | The results related only to the items tested as supplied by the party. |
| 2. | The test certificate shall not be reproduced in full except without the write laboratory. |

CIPET Test Report Page 3







Certifications



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Post Bag No. 2273, Tumkur Road, Bangalore-560 022

गमरल/General: +91-80-2839 4231/32/33, 3053 4000-4001; फैलर/Fax: +91-80-3053 4008; ला//Grams : IPIRTI e-mail : samplecell@ipirti.gov.in, Websites : http://www.jpirti.gov.in, http://www.bamboocomposites.com Dage Lof 2

| संस थ/10, | | |
|---|---------------------------------------|---|
| | | |
| | | |
| | | |
| विष महोशय, | | |
| Dear Sir, | 221 | and the second design of |
| | parent: | |
| | Sub: | Test report for Natural Prore composite boards |
| | HOL: | Arrest units |
| | BCU | (Samples received on 13.12.2019) |
| ștur suite u Please refer | a wr titel i to the ab | है। sove letter. अवश्रीव, |
| quar guine u Please refer | a un ticú i to the ab | Fi sove letter. Pours faithfully. |
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Test Report for termite, borer, fungus Page 1 Test Report for termite, borer, fungus Page 2









Date: 26.06.2020

100 10000 72000

N & PRANNEY CONTRACT

cha 2111 landal lisat



TC659519000000317F, 318F & 319F

Page 2 of 2

TUNn. JD/PH&SPL5890/Bio-317F-319T/2019/Chennal

TEST REPORT

Date: 26.06.2020

Three Nos, of Natural Fibre Composite Board Samples received from were tested for Termite resistance test, Fungal Resistance test and Borer Resistance test. The test results are as follows:

Ref: Your letter dated 12.12.2019

| Sample | Termite resistance test | Result |
|---|---|---|
| Natural Fibre Composite Board Samples 1' × 1' × 18mm | Samples were subjected to Termite resistance test for the period 17.12.2019 to 17.06.2020 (6 months duration) at per IS:4833 Samples were subjected to Fungal resistance test for the period 17.12.2019 to 17.03.2020 (3 months duration) as per IS:4873 | No sign of Termite attack was observed on the samples. No sign of fungal attack was observed on the samples. |
| | Samples were subjected to Horer resistance sest for the period 17.12.2019 to 17.06.2020 (6 months duration) as per 15:4873 | No sign of Borer attack was observed on the simples. |





GreenPro Certification





Multi Layered Plastic Recycled Boards

The non-biodegradable output which contains plastics, polymers, aluminium foils and multilayered plastics and other non-recyclable components as well is sterilized and recycled into recycled boards.

These boards are a direct replacement to particle board, MDF and plyboards. Thus, saving the environment from the huge damage being done by cutting tress to make furniture.

These boards are converted into beautiful furniture items by local carpenters and artisans creating scores of jobs and supporting livelihood. We not only prevent dumping of plastics but also help the environment by preventing the trees from being cut.

























We at ipse Green find solutions for sorting the toughest form of **municipal solid waste** - fresh mixed waste and recycling it. With our technology we can segregate wet and dry waste to over 90% efficiency thus ensuring that the wet waste can then be composted or sent into biogas.

The dry waste mostly comprises of plastics which are non-recyclable like multi-layered plastics. We recycle it into recycled sheets called Multi Layered Plastic Recycled Boards. Our integrated solution ensures over 90% waste is diverted from the landfills and converted into value creating true circular economy.









Segregation Technology

(Component 1).

The dry waste including plastics and paper is extracted. High value plastics and paper is sold to recycling industries while the low value and multi-layered plastics are recycled (Component 2) into building and infrastructure material.

incinerated.



Mixed MSW Brought



At the Integrated waste management facility where Municipal Solid Waste is brought for recovering the recyclables and valuables

The organics if any may be sent to composting or biogas plants for processing. Inerts like diapers and sanitary napkins should be







ipsa ipsum





Output





MULTILAYERED PLASTIC RECYCLED BOARDS Like Plywood Without Wood

Multi Layered Plastic Recycled Boards





PLASTIC LUMBERS Like Timber Without Wood















Features

KEY FEATURES:











Environment Friendly





Re-Reclyclable



SUPERIOR FEATURES:

| Eco-Friendly | PROPERTIES | PLYWOOD | MULTI LAYERED PLAS RECYCLED BOARD |
|----------------------------|-------------------|--------------------|--------------------------------------|
| | OILING | Required | Not Required |
| Better Density | SCRATCH RESISTANT | No | Yes |
| | DRYING | Delicate Handling | Rough Handling |
| Higher Repetition | SEALANT | Required Over Cuts | Not Required |
| Nail Holding Capability | DRYING | Must | Not Required |

Like Plywood Boards but made from low-value, multi-layered plastics and non-recycle blue plastics

















Applications Building Material Multi Layered Plastic Recycled Boards can k



Multi Layered Plastic Recycled Boards can be used Building Material for Vertical, Horizontal and circular shuttering.













Applications Building Material Multi Layered Plastic Recycled Boards can k



Multi Layered Plastic Recycled Boards can be used Building Material for Vertical, Horizontal and circular shuttering.











Green **Plastic Lumber**

Plastic Lumber Applications Pallets - Can Take more than 2 Tons Weight















Green **Plastic Lumber**

Sustainable Door Casing





Planter Boxes







Green **Plastic Lumber**

Use Cases

01 DECKING

Crafted from recycled multilayered plastics (MLP), the decking features a combination of various thicknesses, with dimensions of 100x20 for the top deck and 40x40 for the platform. An alternative option involves utilizing boards as the platform itself.

02 LOUVERS

Comprising 40x40 lumbers, the louvers can be enhanced with a wooden finish achieved through either lamination or matte finish paints.

03 WALL CLADDING PANELS

Utilizing our boards, the wall cladding panels are meticulously designed with a wood finish using lamination, adding a touch of sophistication to the overall aesthetic.

04 BOOKRACK OR MAGAZINE STAND

Constructed from our 12mm boards, these racks incorporate dedicated space for brochures and flyers, providing both functionality and a sustainable touch.

05 SUSTAINABLE FURNITURE (TEAPOY TABLE)

The design for sustainable furniture, specifically a teapoy, is envisioned using a combination of our boards and lumbers, ensuring an eco-friendly and visually appealing piece.

06 POTHOLDERS

Acknowledging the positive impact of greenery on decision-making, our sustainable pots are ingeniously incorporated as potholders, contributing to both aesthetics and a greener ambiance.











Tetra Pak Waste Boards

Comparative study with others

| | ŀ |
|---|----|
| DENSITY | 1 |
| COMPRESSIVE STRENGTH (ACROSS GRAINS) | 1 |
| COMPRESSIVE STRENGTH (ALONG GRAINS) | 3 |
| TENSILE STRENGTH | 1 |
| FLEXURAL STRENGTH | 2 |
| IMPACT TEST NO. OF BLOWS | |
| WATER ABSORPTION | |
| MOISTURE CONTENT | |
| 4 HRS BOILING AND 4 HRS AIR DRY | No |
| 72 HRS BOILING | |
| SCREW HOLDING STRENGTH | |
| NAIL HOLDING STRENGTH | |
| DRILLING AND SCREWING | |
| HEATING 100-105 °C | |

| IEAVY DUTY | LIGHT | MDF | PLYWOOD | WOOD PL/ COMPO |
|--------------|-----------------|----------------------------|--------------|-------------------|
| .06 gm/cm3 | 0.87 gm/cm3 | 0.75 gm/cm3 | 0.75 gm/cm3 | 1.85 gm/ |
| 9.99 N/mm2 | 18.77 N/mm2 | 10.00 N/mm2 | 15.30 N/mm2 | 35.43 N/r |
| 9.12 N/mm2 | 36.92 N/mm2 | 36.64 N/mm2 | 32.28 N/mm2 | 35.43 N/r |
| 9.41 N/mm2 | 33.71 N/mm2 | 18.00 N/mm2 | 24.80 N/mm2 | 35.43 N/r |
| 2.73 N/mm2 | 31.73 N/mm2 | 15.78 N/mm2 | 24.80 N/mm2 | 23.48 N/r |
| | | - | - | - |
| 0.13 - 0.25% | 6.74% | 22 - 24% | 8 - 25% | 4% |
| 0.5% | 0.80% | 8% | 15% | 4.73% |
| Delamination | No Delamination | Slight Water Absorption | Delamination | Distortio |
| No Swelling | No Swelling | Swelling | Delamination | Distortio |
| 139 Kg | 139 Kg | 82 Kg | - | - |
| 18.0 Kg | 18.0 Kg | 2.0 Kg | - | - |
| Easy | Easy | Easy | Easy | Easy |
| No Change | No Change | Burn | Burn | Burn |
| | | | | |









Multilayered Plastic Flooring - 60*60cm Floor Tile

Low value plastics, multi-layered plastics and non-recyclable plastics are recycled into sheets that can then be cut to make value products. This solves the problem of urban waste management by minimising the amount of Single Use Plastics(SUP) and Multi Layer Plastic (MLP) that's being sent to the landfills and increases the amount of recyclables recovered from the wastes. By upcycling the SUP and MLP, we avoid the air pollution caused by their inceneration. The recycled boards are termite, water proof and are durable with high strength and can be used in a wide variety of applications.















Recycled Teak Flooring

ipse reclaim teak flooring is a custom-design reclaimed teak company, manufacturing high-quality, recycled, 100% teak flooring and decking.

Our mission is to offer the most environmentally responsible, beautiful, durable, and authentic hardwood material on the market. This teak is reclaimed by hand from old doors and windows of houses which are demolished.

Why we do it?

Too many woodlands are diminished as the result of deforestation, and one factor of that is improper systems of recycling. We aim to provide high-quality Teak hardwood floors without any damage to the environment.

By properly utilizing Recycled 100% Teak salvaged from production works as a zero-waste process. This means no trees are cut down as a result of their work.







Cement Tiles Design Options









Cement Tiles Design Options











Cement Tiles

Fixing and Polishing Instructions

- 1. Tiles should be fixed within a week of arrival on site. In case this is not possible, tiles should be stored in a covered area, or covered with plastic or tarpaulin. These are cement rich tiles and therefore some crazing is inevitable. When tiles are left in the sun for extended periods the crazing will accentuate.
- 2. Slight variation in shade of tiles from batch to batch may exist, due to variation in cements and pigments. In case your tiles have a colour stripe marking on the edge, tiles of the same colour stripe should be laid at the centre and tiles of other colour stripe should be laid on the periphery of the floor.
- 3. The base on which the tiles are to be fixed should be level.
- 4. Always buy the grouting mixture only from us along with the tiles. Use grouting mix within 30 days of despatch. Close bags / containers tightly between use.
- 5. Laying should normally start from the centre of the room going outward to the periphery. Laying out tiles in the desired pattern before fixing in mortar is advisable to avoid errors.
- 6. Fix tiles on an average 2cm to 3.5cm bed mortar with ratio not leaner that 7:1 (sand: cement) with a neat cement slurry on top. For better results we recommend a slurry of white cement for white cement based i.e. light colour tiles.
- 7. The next morning after laying, and not later, the joints are to be filled with a slurry of the grouting mixture. Joints should be properly cleaned with a blade before filling the same. Ensure that each part of the joint is filled with the colour which matches that part of the tile, and press it into the joint. Ensure water is sprinkled on the tiles for at least 3 days to enable cement to set.



The appearance and life of your floor depends not only on the excellent quality of our tiles, but also on the quality of fixing and polishing. We suggest that you do this through a contractor recommended by us. In case you already have your own contractor, we give below information which, if followed properly, will ensure a smooth, attractive floor.

- 8. The next morning after laying, and not later, the joints are to be filled with a slurry of the grouting mixture. Joints should be properly cleaned with a blade before filling the same. Ensure that each part of the joint is filled with the colour which matches that part of the tile, and press it into the joint.
- 9. A difference in thickness of 3 mm between tiles is normal and well within ISI parameters. The mason must adjust bed mortar to ensure that there is negligible variation in the level of laid tiles. Hasty and uneven laying will result in heavy cutting at the polishing stage and consequent damage to the design, corners, edges etc.
- 10. The tiles should be polished with an Italian polishing machine a week after laying. The first coat of polishing is the most important one. It is the cutting / levelling coat and should be done using No.1 polishing stone (Suri Polex Synthetic stone). Do not use No. 0 stone.
- 11. After 1st coat of polishing tiny pinholes will occur, which should be thoroughly grouted using our grout-mix to match the colour on the tiles. Grouting is to be left for 2 days and cured with water before the tiles are subjected to the second coat of polishing using No.2 stone, followed by Nos. 3, 4, 5 and EX i.e very fine stone (Suri Polex Synthetic stones). Ensure floor is washed with water between each polishing.
- 12. Protect the floor from staining, damage, etc as a result of other agencies working on site. Wet wood shaving, oil and varnish stains cannot be removed. Use Plaster of Paris or plastic covering if there is a time gap between fixing and polishing. To avoid scratches, all furniture, ladders etc should be lifted, or dragged on a thick cloth.
- 13. You may require the same tile in future. Preferably keep extra tiles, and definitely keep a sample for re-ordering.











Cement Tiles

Cleaning and Maintenance Instruction for Tiles

The floor will become - and remain - a thing of beauty if the following instructions are carried out right from the time the tiles are fixed.

- No gritty substances, grease, putty, oil paint, dirty water, chemical solutions, etc. should be allowed to fall on the floor.
- No carpentry, plumbing or masonry work should be done on the floor, stains from wet wood shavings or polish are very difficult / impossible to remove. Protect the floor with a thick plastic if polishing / melamining your furniture. No heavy articles should be dropped of dragged across the floor. If such work has to be carried out, the floor must be protected by placing wooden planks or heavy and clean gunnysacks over it. Once the floor is damaged on account of rough treatment, you will suffer unnecessary extra expenses for getting the floor re-polished or repaired. Even then, it may not be possible to remove the damage completely.
- A newly laid and polished cement-tile floor will develop a dull, greyish appearance. This is caused by "efflorescence" or a greyish film on the surface of the tiles due to the soluble alkalis in the cement / chunam bedding in which the tiles are fixed. Efflorescence will not ultimately effect the quality or the beauty of the floor. It will disappear after some months when all the salts have come to the surface and been washed off by daily cleaning. This normally takes about 3 to 6 months. Thereafter the floor will show a beautiful sheen and improve with use and age, if properly maintained.



- To bring out the sheen or polish of the floor, the following simple method should be followed, right from the day the polishing of the tiles or in-situ terrazzo has been completed.
- 1. The floor should be swept, to remove all loose dust and dirt.
- 2. To half a bucket of clean water, add about 2 tablespoons of kerosene or a mild liquid soap cleaner like Godrej Grease Cutter, preferably daily.
- 3. Dip a course, thick piece of cloth into the solution, squeeze out the excess liquid from the cloth, and then scrub the floor and dado (if any) hard and thoroughly. It is most important to prepare a new solution as and when the old one has become dirty. Each room should be cleaned with a fresh bucket of water / Solution.
- 4. Take a dry cloth and again rub the floor hard and dry. Cleaning should be done correctly and daily for the first 2 to 3 months or longer, after the floor is polished, till the efflorescence disappears. Thereafter swabbing of the floor should preferably be done daily or at least 2 to 3 times a week. Tiled or in-situ wall areas should be treated the same way.

WARNING ! NEVER USE ANY KIND OF ACID, ALKALI, DETERGENT, HOUSHOLD CLEANING OR SCOURING POWDERS, POLISHING OR **ABRASIVE STONES, SCOURING SOAPS, ETC. FOR CLEANING YOUR** TILES FLOOR OR REMOVING STAINS FROM IT. DO NOT USE ANY WAX OR PHENYL ON THE FLOOR.









Green Pattern Tiles



Technical Specifications

Product Name Heritage and Plain Designer Tiles

Technical Data Composition (Topping Layer) White cement, Grey cement pigment fillers, dolomite

Topping Layer 12mm

Backing Layer 11mm

Standard size 20cm x 20cm

Thickness 22mm-23cm









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Green **Mosaic Tiles**

Technical Specifications

Product Name Self Colour Mosaic Tiles (Confirming to IS 1237)

Technical Data Composition (Topping Layer) White cement, Grey cement pigment, chips, dolomite powder

Wet Transverse Strength Above 3N/mm2

Abrasion Resistance Below 3.00mm

Water Absorption **Below 10%**

Standard size 25cm x 25cm, 30cm x 30cm, 40cm x 40cm

Thickness 25mm









Green **Stilan Non Slip Tiles**



Technical Specifications

Product Name Stilan Heavy Duty Non slip tiles (Confirming to IS 13801-1993)

Technical Data Composition (Topping Layer) Cement, Filler, Abrasion resistance grain pigment.

Backing Grey cement, Stone Grit/Dust

Types Non-Slip Designs

Standard size 25cm x 25cm x 2.5cm to 3cm, 30cm x 30cm x 2.7cm to 3cm

Topping Layer 6mm - 8mm (Is Spec 5mm - 6mm)

Wet Transverse Strength Above 3N/mm2

Abrasion Resistance General Purpose Max 3.5mm

Abrasion Resistance Heavy Duty Max 2mm

Impact Resistance Good










Green

Pavers

| | 1. MECHANICAL TESTING 1. BUILDING MATERIAL – PAVING BLOCKS | | | | | | | | |
|--------------|--|--------|--------|--------|---------|----------|--|--|--|
| WATER ABSORP | WATER ABSORPTION OF PAVING BLOCK | | | | | | | | |
| SR. | TEST PARTICULARS | 1 | 2 | 3 | AVERAGE | TEST ME | | | |
| 1 | SATURATED SURFACE DRY WT (Ww) (GM) | 1755.9 | 1786.9 | 1410.9 | | | | | |
| 2 | CONSTANT OVEN DRY WT. (Wd) (gm) | 1749.6 | 1783.0 | 1405.3 | | | | | |
| 3 | WATER ABSORPTION (%) | 0.36 | 0.22 | 0.40 | 0.33 | IS 15658 | | | |

| COMP | COMPRESSIVE STRENGTH OF PAVING BLOCK | | | | | | |
|------|--------------------------------------|--|--|--|--|--|--|
| 0.0 | | | | | | | |

| SR. | TEST PARTICULARS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | AVERAGE | TEST / |
|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|---------|--------|
| 1 | ID MARK | | | | | | | | | | |
| 2 | THICKNESS (MM) | 70 | 52 | 65 | 60 | 61 | 60 | 63 | 53 | | |
| 3 | PLAN AREA OF PAVING BLOCK (SQ MM) | 25194 | 25224 | 25284 | 25134 | 25224 | 25254 | 25209 | 24612 | | |
| 4 | MAX LOAD (kN) | 1759 | 1879 | 1964 | 1883 | 1806 | 1907 | 1830 | 1837 | | |
| 5 | APPARENT COMPRESSIVE STRENGTH (N/SQ MM) | 69.82 | 74.49 | 77.68 | 74.92 | 71.60 | 75.51 | 72.59 | 74.64 | | |
| 6 | CORRECTION FACTOR | 1.09 | 0.96 | 1.075 | 1 | 1.063 | 1 | 1.069 | 0.96 | | |
| 7 | CORRECTED COMPRESSIVE STRENGTH (N /SQ MM) | 76.1 | 71.5 | 83.5 | 74.9 | 76.1 | 75.5 | 77.6 | 71.7 | 75.9 | IS 156 |

| SPECIFICATION LIMITS AS PER IS 15658 : 2006 | | | | | | | | |
|---|--|-------------------|-------------------|------------------|---------------------|------------|--|--|
| SR. | TESTS | M-30 | M-35 | M-40 | M-50 | M-S | | |
| 1 | INDIVIDUAL MIN. COMP. STRENTH IN N/MM2 | 25.50 | 29.75 | 34.00 | 42.50 | 46. | | |
| 2 | AVG. 28 DAYS COMP. STRENGTH IN N / MM2 | >=30 + 0.825 X SD | >=35 + 0.825 X SD | >=40 + 0.825 X S |) >=50 + 0.825 X SD | >=55 + 0.8 | | |

OBSERVATION TABLE & TEST RESULTS













Green

Recycled Pet Yarn Flooring

RECYCLED PET-Yarn is a synthetic material made from recycled plastic bottles, making it an environmentally friendly alternative. The material withstands water, sunlight and dirt in an extraordinary way, hence a PET yarn rug is an excellent choice for both in- and outdoor use.

Wipe off spills and stains using a damp cloth, and if necessary some foamed hand detergent. Frequent vacuum cleaning is recommended. Avoid powerful power heads and stiff bristle brushes as this might damage the rug. If the rug is placed outdoors for longer periods of rain it needs to dry up properly in between uses. The fibers in the rug can eventually deteriorate if the rug can't dry up.Carpet shedding and pilling is normal and can easily be removed by using a fabric shaver or carefully cut away with scissors. Use a rug underlay to protect your rug and your floor. This also serves as a slip protection.

THE NATURE OF HAND MADE ITEMS: Handmade products will always have minor differences when we compare them as they are not made by machines. The "perfection" found in machine woven rugs is not something we are aiming for in our rugs as we value the hand of the artisan. All our rugs are hand woven one at a time, and it is therefore very rare to create identical items. Each piece will be unique and the product will always have minor variation keeping the same theme constant in artistic manner. Smaller variations in color, shading, texture and shape are inherent in a handmade item.. And remember - this is really what makes your rug truly one-of-a-kind!















Farmer's Board

KEY FEATURES:



100% Green Carbon Negative



WHERE AND WHY TO USE:

- Acoustic Insulation
- Ceiling
- Load Bearing Partition
- Furniture
- Mezzanine Flooring















ADVANTAGES

Acoustics 30% better than PET

Thermal comfort 10% Reduced energy load

Indoor Air Quality ZERO VOC







Comparative study of farmer's board with others

| PROPERTIES |
|----------------------------|
| PANEL THICKNESS |
| MOISTURE ABSORPTION (2HRS) |
| SCREW HOLDING STRENGTH |
| FINISH |
| VOC EMISSION |
| TERMITE RESISTANCE |
| CNC WORK POSSIBLE |



| HDF | PLYBOARD | FARMERS'S BC | |
|-------------------------------------|--|---|--|
| 2 mm, 18 mm 12 mm, 18 mm | | 12 mm, 18 m | |
| 10% | 5-12% | 8.5% | |
| 20-25 Kgs | 30-40 Kgs | 50 Kgs | |
| Paint, Laminate, Pre- Lamination | Pre-Lamination not Possible | Paint, Laminate Lamination | |
| Class B | Class A | A+ Catego | |
| No Yes | | Yes | |
| Yes Yes | | Yes | |
| | HDF 12 mm, 18 mm 10% 20-25 Kgs Paint, Laminate, Pre- Lamination Class B Yes | HDFPLYBOARD12 mm, 18 mm12 mm, 18 mm10%5-12%20-25 Kgs30-40 Kgs20-25 Kgs30-40 KgsPaint, Laminate, Pre- LaminationPre-Lamination not PossibleClass BClass AYesYesYesNo | |









Application: Load Bearing Wall



Screw holding strength Up to 50 kgs 50mm VOC emission Honeycomb Category A+ Core Finishes 11mm Acoustic **Farmer's Board Raw Finish** 2mm Waste Wool with 2mm Waste Wool Felt Backing Laminate/ Prelam/ Veneer 11mm Acoustic **Farmer's Board** with 2mm Waste Wool 2mm Waste Wool **Felt Backing Paint Finish**















Application: Wall Paneling





Composite Acoustic Paneling

17mm OSL with 2mm Waste Wool Felt Backing

Installed on 50mm Standard GI Frame

0.85 - 0.9 NRC

Size of Sheet - 8'x4' | T & G Joint









Application: Wall Paneling



Perforated Acoustic Paneling

11mm with 2mm Waste Wool Felt Backing

Installed on 50mm Standard GI Frame

Finishes - Raw, Laminate, Prelam, Paint

0.72 - 0.8 NRC

Size of Sheet - 8' x 4'







Application: Wall Paneling





Perforated Acoustic Paneling

25-30mm board installed on the existing brick wall or drywall

Waste wool colors - Grey or Off-white

0.61 - 0.85 NRC

Sheet Size - 2'x2', 2'x4', 8'x4'









Application: Ceiling



Screw holding strength 2'x2', 2'x4', Custom

Thickness 8mm, 11mm

Finish Raw, Prelam (OSL), Paint

Туре Plain, Perforated

Edge Square, Regular

Felt Backing Polyester Fleece, 2mm thick Magra felt

Sound Absorption 0.45 - 0.9 NRC















Application: Ceiling











Application: Ceiling











Comparative analysis - Ceiling Tiles - Acoustic & Non Acoustic

| PROPERTIES | FARMER'S BOARD PLAIN TILE | FARMER'S BOARD PERFORATED TILE | MINERAL FIBER TILES | GYPSUM PLAIN TILES | METAL PERFORATED TILES | DANOLINE TILES (GYPSUM PERFORATED) | CALO |
|-------------------------|------------------------------|-----------------------------------|------------------------|-----------------------|------------------------------|--|--------------------------------|
| EDGE DETAILS | Square/Tegular | Square/Tegular | Square/Tegular | Square | NA | Square/Tegular | Square, |
| THICKNESS | 8mm, 11mm | 8mm, 11mm | 12-16mm | 9.5mm, 12.5mm | 25mm | 12.5mm | 6mm, |
| SIZE | 2'x2', 2'x4' | 2'x2', 2'x4' | 2'x2', 2'x4' | 2'x2', 2'x4' | 2'x2', 2'x4' | 2'x2', 2'x4' | 2'x2', |
| DENSITY | 750 - 900 kg/cu.m. | 750 kg/cu.m. | 350 kg/cu.m. | 450 kg/cu.m. | NA | 735 - 800 kg/ cu.m. | 900 kg |
| THERMAL CONDUCTIVITY | 0.0195 W/m-k | 0.0195 W/m-k | 0.052 - 0.065 W/m-k | 0.16 W/m-k | NA | NA | 0.15 V |
| SOUND ABSORPTION | 0.45-0.5 NRC | 0.72-0.9 NRC | 0.5-0.6 NRC | NA | 0.55-0.75 NRC | 0.55-0.8 NRC | Plain - (Perfor 0.7-0.8 |











Application: Furnitures











Application: Furnitures











Application: Furnitures











Application: Furnitures







SUSTAINABLE PROJECTS RENEWABLE MATERIALS

CORPORATE GIFTS







CORPORATE GIFTS

01/06



10 x 10 x 0.6 CM







CORPORATE GIFTS Post-it Holder

10 x 10 x 6 CM

MATERIAL









corporate GIFTS Name Card

6 x 4 x 2.4 CM

MATERIAL







CORPORATE GIFTS

04/06

Multipurpose Stationary Holder

24 x 13 x 6 CM







CORPORATE GIFTS 05/06 **Rectangular Tray**

27 x 12 x 3 CM









CORPORATE GIFTS 06/06

Documents Tray

34 x 24 x 3 CM







Phone with Casing



CORPORATE GIFTS Phone Holder

 $10 \times 8 \times 2.4$ CM







CORPORATE GIFTS Pen Holder

10 x 10 x 10 CM

MATERIAL







CORPORATE GIFTS P.E.T Based Uniforms

MATERIAL





corporate GIFTS Sustainable Caps

MATERIAL





CORPORATE GIFTS Sustainable Safety Vest

MATERIAL





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E-waste Table Beverage Cans P.E.T. Bottle Sarkanda Grass Weaving Reclaimed Wood Off-cuts Trash Desk Set Coaster of Trashboard Cement Tiles Arm's Chair with Beige Boro Keong Saik Nesting Čoffee Table MOP Inlay Leather Off-cut Screen MLP Tray Nymeria Coffee Table Single Paver Planter St. Tropez Cone T-light St. Tropez Wood Wine Cooler with Stand E-waste Desk Off-cuts of wood Bone Inlay Tile Cow Dung Paper Rice Husk Tray Paper Trays Tote Bag with Jute Linen Fabric Alicia Dining Chair Small Peranakan Side Table

FEATURED SUSTAINABLE PRODUCTS



What sustainable luxury design in furniture looks like at ipse ipsa ipsum?











COLLECT WASTE P.E.T BOTTLE



MATERIALS INDEX

COLLECT & CLEAN DISCARDED ANIMAL BONES











MATERIALS INDEX





RECLAIMED RAILWAY TRACKS/ DOORS AND WINDOWS







SUSTAINABILITY 02/24 Coke Can Work Table

PROCESS



Step 1 Collect waste beverage cans



Step 2 Crush into dense pellets



Step 3 Melt the cans in a furnace



Step 4 **Poured into a desired sand cast**



Step 5 **The upcycled product is ready**







SUSTAINABILITY Mandai Chair









SUSTAINABILITY 05/24 Henderson Desk



Henderson Desk with Modesty Panel

Some South and include the many provident the South and in the south and the south and the south and the south





SUSTAINABILITY Trash Desk Set






Coaster of Trashboard







09/24

Arm's Chair in Beige Boro





10/24

Keong Saik Nesting Coffee Table MOP Inlay







Leather Off-cut Screen

SUSTAINABILITY







2.4.4 The same of the second se







SUSTAINABILITY E-Waste Desk







19/24

Bone Inlay Tile



Cow Dung Paper Envelope

SUSTAINABILITY











Rice Husk Tray















Alicia Dining Chair







24/24

Small Peranakan Side Table







AWGIGS





Awards 01/02 SRA Retail Award



SRA SINGAPON R@TAILER ASSOCIATIO

FRIDAY II NOVEMBER I 6PM TO 10PM SANDS GRAND BALLROOM, LS



Empower Business | Build Connections | Transform Retail

SRA RETAIL AWARDS GALA DINNER 2022

GUEST OF HONOUR: MS LOW YEN LING

MINISTER OF STATE, MINISTRY OF TRADE AND INDUSTRY, MINISTRY OF CULTURE, COMMUNITY AND YOUTH

000



Empower Business | Build Connections | Transform Retail





Awards SFIC Award

02/02



41st Annual Dinner & Dance

sfic

AND BEYOND 25TH NOV 2022

Guest-of-Honour: Ms Sim Ann

Senic _____ ter of State, Ministry of Foreign Affairs and Ministry of National Development & SFIC Patron





Awards 02/02 **SOL Awards 2023**

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Sam & Sara Holdings Pte. Ltd.

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Sol Awards 2023 **SILVER WINNER**

Singapore USg





Awards 02/02 SOL Awards 2023

Bronze Experiential Excellence

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onouring Industry Achievers Excellence

ards Ceremony & Ga^L November 2023



sed by: SfiC

Ki





Awards 02/02 SRA Awards 2023

Retail Leader of the Year Finalist





SINGAPORE R@TAILERS ASSOCIATION

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SRA RETAIL AWARDS GALA DINNER 2023





Awards 02/02 SRA Awards 2023

Best Retail Sustainability Initiative







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