



E3 Wood[®]

Eco Wood - WPC

ALTERNATIVE FOR WOOD



WHY WPC

Rare trees in tropical rainforests require several decades to reach full maturity. More than 30 years ago, observing the destruction caused by mankind in the Amazon and other rain forests wood has been a standard building, Door Frames & Shutters, Windows, Fences, Decking, Pergola, Railings, Cladding, Furniture & Interior Material for Centuries, However, with the raise of global warming and deforestation, wood alternatives are increasing in popularities and use.





0821-4271719



#556 NEW KANTHARAJ URS ROAD
KUMPUNAGAR MYSORE-570023





MYS@E3WOOD.COM
KEY19MD@GMAIL.COM



+91 9886777651
+91 9886777665
+91 9980913316

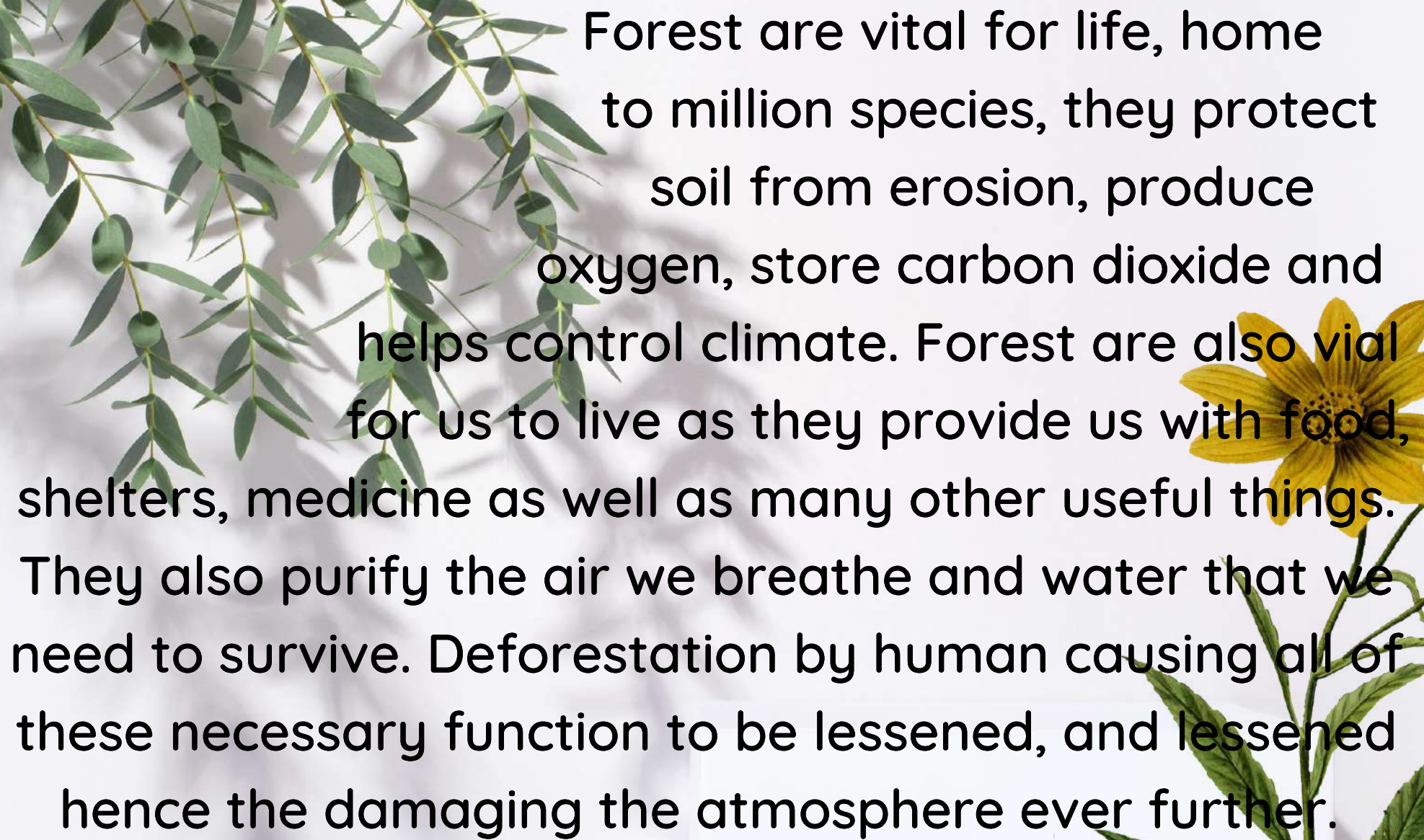




Our Mission is to Provide
Complete & Effective Solutions in
order to protect the Environment
and also contribute to the efforts
of controlling Global Warming,
we Strive to develop, new
innovative green products
(ALTERNATIVE FOR WOOD)
for today's future.



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Forest are vital for life, home to million species, they protect soil from erosion, produce oxygen, store carbon dioxide and helps control climate. Forest are also vial for us to live as they provide us with food, shelters, medicine as well as many other useful things. They also purify the air we breathe and water that we need to survive. Deforestation by human causing all of these necessary function to be lessened, and lessened hence the damaging the atmosphere ever further.



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Forest plays a huge role in the carbon cycle on our planet. When Forest are cut down , Not only does carbon absorption cease , but also the carbon stored in the trees is released into the atmosphere as CO₂ if the wood is burned or even if it is left to rot after the deforestation process. Smaller Crops Example plants and agriculture crops also draw in carbon dioxide and release oxygen, however forests store up to 100 times more carbon than agriculture fields of the same area.



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Deforestation is an important factor in global climate change. Climate change is because of a buildup of carbon dioxide in our atmosphere and if we carry on cutting down the main tool we have to diminish this CO2 Build up. It is estimated that more than 1.5 billion tons of carbon dioxide are released to the atmosphere due to deforestation, mainly the cutting and burning of forest, every year. Over 30 million acres of forests and woodlands are lost every year due to deforestation.

Carbon dioxide (CO2) emissions from human activities are now higher than at any point in our history. In fact, recent data reveals that global CO2 emissions were 150 times higher in 2011 than they were in 1850



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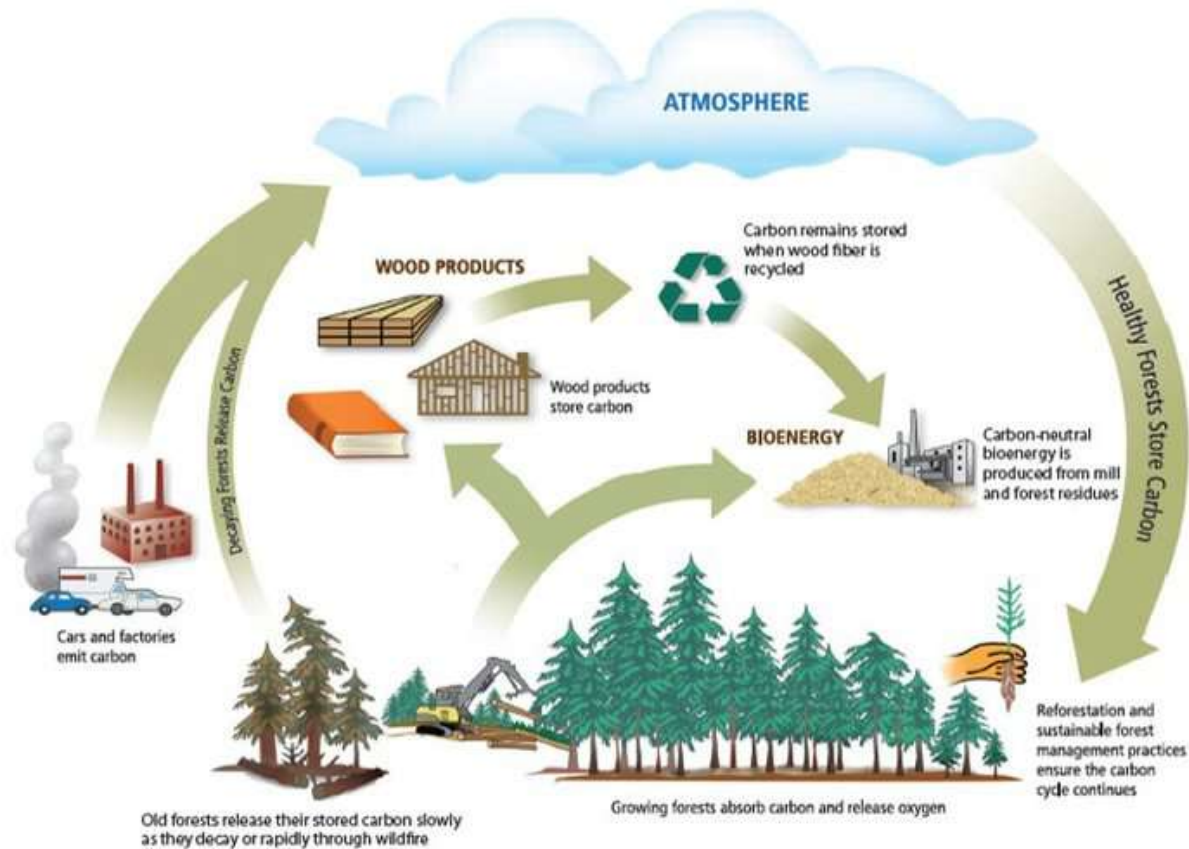
Stabilizing the global climate is the greatest challenge of the 21st century. Temperatures have exceeded global annual averages for 38 consecutive years. The impacts are being felt all around the world. Extreme weather events are becoming more frequent and severe.

Heat waves and drought plague many countries, destroying agriculture, increasing the risk of wildfires and endangering lives. Rising sea level threatens coastal communities and infrastructure by amplifying flooding and storm surge. The global economy, people's health, and development and employment opportunities depend on the availability of natural resources and healthy ecosystems.



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Sustainable Forestry Carbon Cycle



About us.

E3 Wood is Mysore based company is manufacturing wood polymer composite products. E3 Wood –WPC is GreenPro certified products by IGBC- Indian Green Building Council. As we aware of need of alternative material for natural resources to avoid deforestation and avoid Global warming by using alternative material.

Fact: Rare trees in tropical rainforests require several decades to reach full maturity. More than 30 years ago, observing the destruction caused by mankind in the Amazon and other rain forests,



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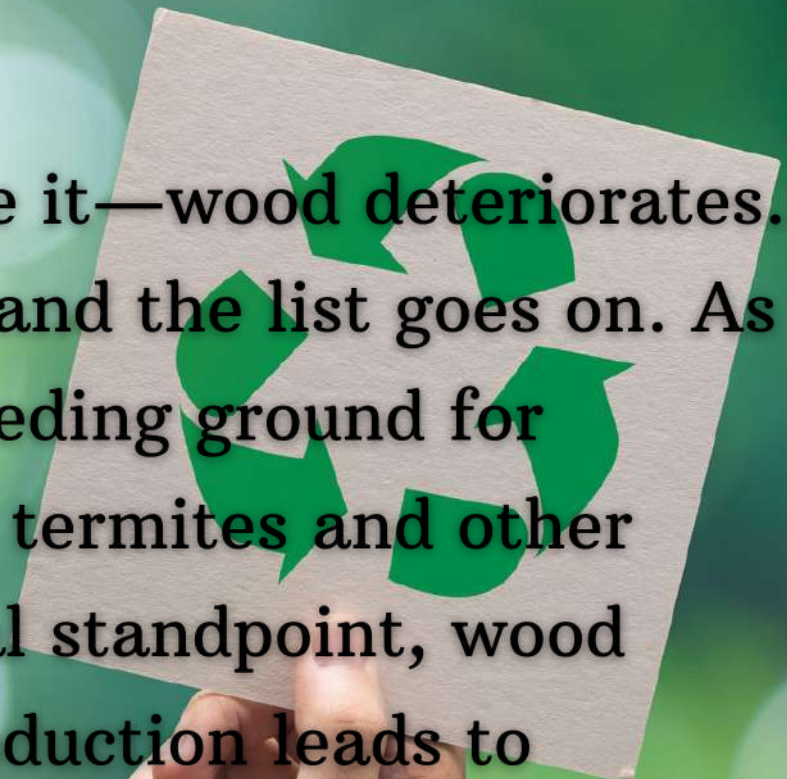
• **Innovation:** Wood has been a standard building material for centuries. However, with the rise of global warming and deforestation, wood- alternatives are increasing in popularity and use. Thanks to modern technology, we have been able to create a product that will decrease the need for wood materials



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WPC can Recyclable: Let's face it—wood deteriorates. It cracks, it rots, it splinters, and the list goes on. As an organic material, it is a breeding ground for bacteria and a hearty meal for termites and other insects. From an environmental standpoint, wood cannot be recycled, and its production leads to deforestation.



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WHAT IS WPC (WOOD POLYMER COMPOSITE) E3 WOOD

WPC – Wood Polymer composites is a composite material of Waste Wood or agriculture waste material (saw dust , rice husk , Bomboo waste ,coconut husk, maze waste ,coffee husk ,cotton husk, etc...) and recycled polymer waste or virgin material as a binder and functional additives.



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Characteristics



Moisture resistance

Water resistant

Termite resistance

Resistance to Rot

Corrosion resistant

Weather resistant

Sound absorbing (Acoustic) property

Acid Resistant

Good Screw Retension Outstanding Performance in Energy Saving

Does Not Crack and Split

Good Thermal Insulation

Highly Durable

Low Maintenance



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Applications

Interior - Exterior

Door Frame / Shutters

Window Frame / Shutters

Wall panel

False Ceiling

Picket Fence / Railing

Decking / Pathway Tiles

Planter Box / Louvers

Office partition

Pergola

Furnitures



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A Green Energy revolutionary product has been developed with Vision of Recycling, Reuse and Reduces use of Natural wood. Now Our Responsibility & Promote alternative materials for Wood (Wood alternative) to Protect Earth, Forest & Environment

**Global warming can be control by
Avoid Cutting Tree.**



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WPC Characteristics Comparison Over Wood

CHARACTERISTICS

WPC

WOOD

Moisture Resistance

Moisture Water Resistance

Water absorptive

Rot Resistance

Resist to Rot

Rot except special treating

Split Resistance

Does not Crack

Cracked by weathering

Distortion Resistance

No Contraction Expansion
(Minimal)

Distorting effected by
change of moisture & Temp

UV Resistance

High grade UV resistance

Easily effected by UV

Fading Resistance

Color resistance, less fade

Easily it will fade

Outdoor adaptability

Great

Only few of treated-wood

Painting

No need – If need can
paint or polish

Need paint periodically

Durable/Longevity

>20 years depends on the
application – Exterior

<3 years - Exterior

Various Configuration

Make any shape & Size

Complex

Environment Effect

Recyclable 100% / Eco
friendly

Cannot recycle

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Confederation of Indian Industry

CII-Green Products and Services Council

hereby certifies that

E3 Wood – WPC

(GPE3E119001)

*Manufactured by E3 Extrusion Inc. at Mysore, Karnataka meets
the requirements of GreenPro Ecolabel and qualifies as Green Product.*

*This certification is valid till **December 2022***

Jamshyd N Godrej
Chairman, CII-Godrej GBC

ParasuRaman R
Chairman, CII-Green Products & Services Council

K S Venkatagiri
Executive Director, CII-Godrej GBC

Supporting Council and programmes



Certificates



Eco-friendly

Recyclable

Green Wood

E3 Wood

Technical Data sheet

Properties	Test Method	Unit	value
Density	ASTM D792	gm/cc	1.22 – 1.29
Tensile Strength	ASTM D790	Mpa	22
Flexural Strength	ASTM D790	Mpa	39
Flexural Modulus	ASTM D790	Mpa	3900
Water absorption	ASTM D570	%	0.7 – 0.9
Flammability-HB	UL 94-1996 Rev9/2006	Mm/min	24
Compression Strength	ASTM D143	Mpa	32
Unnotched Izod Impact strength	ASTM D 256	Kj/m2	3.4
Heat Distortion Temperature	ASTM D648	Degree cen	100 - 105
Hardness	ASTM D2240-05	D scale	82-85

Data herein is typical and not to be construed as specifications. Unless otherwise specified, all data listed is brown color materials. Pigments can affect properties. E3 Extrusion Inc makes no guarantee of data and assume no obligation or liability in connection with any use of this information

ganesh@e3wood.com

www.e3wood.com

Test Report



BUREAU VERITAS

Ref: BV/PL-SPL/BL/7933/2017
Test Order dated: 8.3.17

Date: 23.3.2017

M/s E3 Extrusion Inc.
415, 11th Cross, 4th Phase
Peenya Industrial Area
Bangalore 560 058

TEST REPORT ON E3 WOOD SAMPLE

Source of sample : Sample supplied by the customer
Customer Reference : Letter No. CA-104/2017 dated 8.3.17
UIN : 17007363
Project* : Not furnished
Sample description* : E3 Wood - WPC (Door Frame)
Model* : E3W08 - Door Frame
Period of test : 20.3.17 to 23.3.17
Condition of sample : Satisfactory
Test Method : ASTM D1037

Sl. No.	Test Conducted	Test Results
1	Moisture Content (%)	0.8
2	Compressive Strength (kg/cm ²)	201
3	Swelling @ 2 hr. (%)	0.26
4	Screw Holding (N)	1560

* As furnished by the customer.

Notes: 1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.

for **BUREAU VERITAS (INDIA) PRIVATE LIMITED**
Construction Services Laboratory

Chandru
24/3/17

BUREAU VERITAS (INDIA) PVT. LTD.
Construction Services Laboratory
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Tamil Nadu, Bangalore-560 077

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Tamil Nadu, Bangalore-560 077

Regd. Off: Marathahalli, 6th, 2nd
K. Marathahalli, 6th, 2nd
K. Marathahalli, 6th, 2nd
K. Marathahalli, 6th, 2nd
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K. Marathahalli, 6th, 2nd
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Save Tree Save Environment

काष्ठ कम्पोजिट जाँच एवं मूल्यांकन केन्द्र
 Center for Testing And Evaluation of Wood Composites
 भारतीय प्लाईवुड उद्योग अनुसंधान और प्रशिक्षण संस्थान
 INDIAN PLYWOOD INDUSTRIES RESEARCH AND TRAINING INSTITUTE
 (आरक्षण विभाग, पर्यावरण एवं वन विभाग का स्वायत्त निकाय)
 (Autonomous Body of the Ministry of Environment & Forests, Government of India)
 प्लॉट नं० ४, 2273, तुमकूर रोड, बंगलूर - 560 022
 B.No. 2273, HMT Link Road, Off Tumkur Road, Yeshwanthpur, Bangalore - 560 022
 Ph. No. 080-30534000-04-21, Fax. No. 080-28396361
 Email : samplecell@ipiri.gov.in, Website : www.ipiri.gov.in

Page 2 of 2

क्र. 33/2013/Ho-6869/2015-Bangalore Date: 23.03.2016


TEST REPORT

Wood Plastic Composite (WPC)-E3 Wood sample received from M/s. E3 Extrusion Inc., 11th Cross, 4th Phase, Prema Industrial Area, Bangalore - 560058, was tested for Termite resistance. The test result is as follows:

Your letter No. Nil dated Nil (received on 25.08.2016)

Sample	Termite Test	Remarks
Wood Plastic Composite (WPC)-E3 Wood	WPC samples were exposed in graveyard for termite resistance test for a period of six months duration as per IS-4833:1993, (03.09.2015 - 03.03.2016)	Samples showing resistance to termite attack.

The test results are relevant only to the sample received for testing.


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 BANGALORE



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ULR-TC65982000008112F
 Test Report No.RPT/H(M)/20/001122
 Dated 2020-07-27

Material List (As Identified By Laboratory)

Material No.	Component	Material	Color	Remark
A	E3 WOOD - WPC	WOOD/POLYMER	BROWN	

Result Conclusion

Test	Composite Sampling (Material No.)	Conclusion	Remarks
Volatle Organic Compounds	A	Refer Result	

1.0 Volatile Organic Compounds

Test Method: Analysed in Headspace GC-MS

	A (mg/kg)	Limit Max.
Benzene	Not Detected	
Cyclohexane	Not Detected	
Dichloromethane	Not Detected	
Trichloroethylene	Not Detected	
Tetrachloroethylene	Not Detected	
1,1,2,2-Tetrachloroethane	Not Detected	
Phenol	Not Detected	
Methyl phenols	Not Detected	
o,m,p-Xylene	Not Detected	
Styrene	Not Detected	
Toulene	Not Detected	
Di methyl Formamide	Not Detected	
Vinyl chloride	Not Detected	
Tetra Hydro Furan	Not Detected	
Pentachloroethane	Not Detected	
Carbon tetrachloride	Not Detected	
Trichloromethane	Not Detected	

Limit of Quantification: 5 mg/kg

- END OF TEST REPORT -

Laboratory:
 TUV SUD South Asia Pvt. Ltd.
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 Ranipet,
 Tamil Nadu-632513.

Phone :+91 4172 300500
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 Url : www.tuv-sud.in/offices
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ULR-TC65982000008112F
 Test Report No.RPT/H(M)/20/001122
 Dated 2020-07-27

Purpose of Examination / Conclusion

Test	Results
Volatle Organic Compounds	Refer Result

Authorised By

C. Arun
 (Authorised Signatory)

Please contact :
 For any technical issues : R.Mahalakshmi at Mahalakshmi.R@tuv-sud.in
 For any complaint : Rajasekar.M at Rajasekar.M@tuv-sud.in.

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ULR-TC65982000008112F
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ULR-TC65982000008112F
Test Report No.RPT/H(M)/20/001122
Dated 2020-07-27

Applicant : E3 Extrusion Inc
No 23 F.Rane Madras road,
Hebbal industrial area ,
Mysore,Karnataka-570018
India

Attention : Mr. Ganeshh.M,
Test Sample : Received on 2020-07-21 11:35 am
Test Period : 2020-07-21 to 2020-07-27
Sample Description : Sample A-E3 WOOD - WPC

Part Name : WPC
Buyer Name : E3 EXTRUISON INC
Additional Info. : MATERIAL DETAILS : WOD POLYMER COMPOSITE
Supplier Name : E3 EXTRUISON INC

Note : The submitted Samples were not drawn by laboratory.
Unless otherwise agreed upon, PASS or FAIL verdicts are given based on the measured values without any considerations of measurement uncertainties.
Every test method has a measurement uncertainty which has been evaluated by the laboratory and are available on request. By taking measurement
uncertainties into account it might happen that measured values can neither be assessed as PASS nor as FAIL.

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ULR-TC65982000007428F
 Test Report No.RPT/H(RO)/20/001039
 Dated 2020-07-18

2.0 Flame Retardants

(Test Method : IEC 62321-6-2015, Equipment Used: GC-MS)

	A (mg/kg)	Limit Max.
PBBs-MONOBROMOBIPHENYL	Not Detected	-
PBBs-DIBROMOBIPHENYL	Not Detected	-
PBBs-TRIBROMOBIPHENYL	Not Detected	-
PBBs-TETRABROMOBIPHENYL	Not Detected	-
PBBs-PENTABROMOBIPHENYL	Not Detected	-
PBBs-HEXABROMOBIPHENYL	Not Detected	-
PBBs-HEPTABROMOBIPHENYL	Not Detected	-
PBBs-OCTABROMOBIPHENYL	Not Detected	-
PBBs-NONABROMOBIPHENYL	Not Detected	-
PBBs-DECABROMOBIPHENYL	Not Detected	-
Sum of PBBs	-	1000 mg/kg
PBDEs-MONOBROMODIPHENYL ETHER	Not Detected	-
PBDEs-DIBROMODIPHENYL ETHER	Not Detected	-
PBDEs-TRIBROMODIPHENYL ETHER	Not Detected	-
PBDEs-TETRABROMODIPHENYL ETHER	Not Detected	-
PBDEs-PENTABROMODIPHENYL ETHER	Not Detected	-
PBDEs-HEXABROMODIPHENYL ETHER	Not Detected	-
PBDEs-HEPTABROMODIPHENYL ETHER	Not Detected	-
PBDEs-OCTABROMODIPHENYL ETHER	Not Detected	-
PBDEs-NONABROMODIPHENYL ETHER	Not Detected	-
PBDEs-DECABROMODIPHENYL ETHER	Not Detected	-
Sum of PBDEs	-	1000 mg/kg

Limit of Quantification: 2.0 mg/kg

3.0 Heavy Metal

(Test Method : Based on IEC 62321-5-2015 for Pb & Cd, IEC 62321-4-2015 for Hg & IEC 62321-7-2015 for Hexavalent Chromium (Cr VI), Equipment Used: ICP-OES)

	A (mg/kg)	Limit of Quantification (mg/kg)	Limit Max.
Total Cadmium(Cd)	Not Detected	2.0	100 mg/kg
Lead (Pb)	7.9	2.0	1000 mg/kg
Hexavalent Chromium(Cr VI)	Not Detected	3.0	1000 mg/kg
Mercury (Hg)	Not Detected	2.0	1000 mg/kg

- END OF TEST REPORT -

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ULR-TC65982000007428F
 Test Report No.RPT/H(RO)/20/001039
 Dated 2020-07-18

Tests Subject Description:

SAMPLE NO.	CODE NO.	MATERIAL DESCRIPTION	PHOTOGRAPH	RESULT
A	-	E3 WOOD -WPC (WOOD POLYMER COMPOSITE)		PASS

Test Result

1.0 Phthalates

(Test Method : Based on CPSC-CH-C1001.09.4 : 2018, Equipment Used: GC-MS)

Analytes	CAS No.	A (mg/kg)	Limit Max.
Benzyl Butyl Phthalate (BBP)	85-68-7	Not Detected	1000 mg/kg
Bis-(2-Ethyl Hexyl) Phthalate (DEHP)	117-81-7	Not Detected	1000 mg/kg
Di-butyl Phthalate(DBP)	84-74-2	Not Detected	1000 mg/kg
Di-iso-butyl Phthalate(DIBP)	84-69-5	Not Detected	1000 mg/kg

Limit of Quantification: 100 mg/kg

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ULR-TC65982000007428F
Test Report No.RPT/H(RO)/20/001039
Dated 2020-07-18

Applicant : E3 Extrusion Inc
: E3 Extrusion Inc, No 23 F
Rane Madras road, Hebbal industrial area ,
Mysore,Karnataka-570018
India

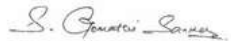
Attention : Mr. Ganeshh.M,
Tested Sample : Received on 2020-07-10 4:49 pm
Test Period : 2020-07-14 to 2020-07-18
Sample Description : Sample A-E3 WOOD -WPC

Part Name : WPC
Buyer Name : E3 EXTRUISON INC
Additional Info. : MATERIAL DETAILS: WOOD POLYMER COMPOSITE
Supplier Name : E3 EXTRUISON INC
Objectives Of Examination : To Test for RoHS2 Directive 2011/65/EU (Recasting 2002/95/EC)
Annex II Limitation and its valid amending Directives including
(EU)2015/863, based on Applicant's requisition.

Note : The submitted Samples were not drawn by laboratory.

Unless otherwise agreed upon, PASS or FAIL verdicts are given based on the measured values without any considerations of measurement uncertainties. Every test method has a measurement uncertainty which has been evaluated by the laboratory and are available on request. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as PASS nor as FAIL.

Conclusion : Refer Results



S. Gomathi Sankar
Report Reviewer

Authorised By



C. Arun
Authorized Signatory

Please contact :

For any technical issues : R Mahalakshmi at Mahalakshmi.R@tuv-sud.in

For any complaint : Rajasekar M at Rajasekar.M@tuv-sud.in

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TUV®
Page 1 of 3



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Project Pictures



Project Pictures



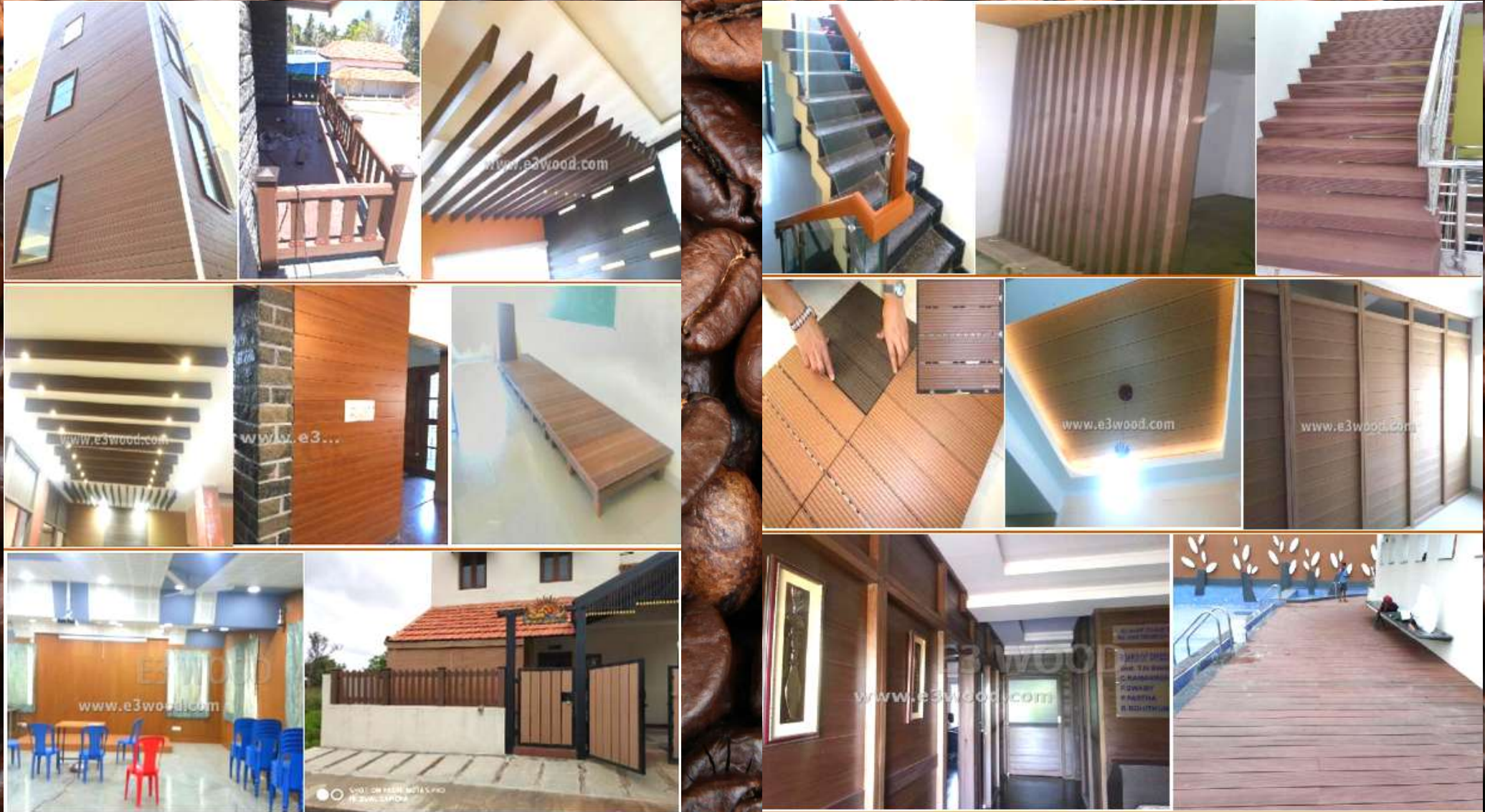
Project Pictures



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Model



E3W01A

**12mm x 225mm solid used for gate cladding,
S fences etc.**



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Model



E3W03



5 x 5 section used for railings, pergola, Pillars
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Model



E3W04

**27mm x 150mm used for Decking, Elevation
cladding, Gate panel, & Furnitures**



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Model



E3W05A Solid

**20mm x 100mm Used for Picket fence, Railings,
Gate Cladding etc.**



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Model



E3W06



**2/4 section for pergola, Railings,
Kitchen Partation**

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Model



E3W07

5/3 section Door Frame



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Model



E3W08

4/2 section Door Frame & Window Frame

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Model



E3W08A



2/4 section Center patti Used for Window Partition, & hand railings.

Model



E3W09

12mm x 150mm Used for Cladding, False ceiling, Office Partation wall Etc.

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Model



E3W10

9/3 sec Temple Vascal Door frames for
main door



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Model



E3W11



**WPC Click tiles for exterior flooring, Pathway,
Garden area, Sitouts etc.**

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Model



E3W12



100mm x 32mm Big Window Shutter Frame



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Model



E3W13

75mm x 32mm Window shutter frame section



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Model



E3W14

40mm x 70mm Bathroom Door frame Sec

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Model



E3W15

50mm x 50mm section Tube for railings

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Model



E3W16

2.25 x 4.5 section frame used for Door frames

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Model



E3W17

12mm x 75mm panel for cladding

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Model



E3W18 Fluted Wall Cladding panel

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Model



WPC Board

**28mm 0.55 Density WPC Boards for Bathroom
Door Shutters**

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Model



SPC Flooring

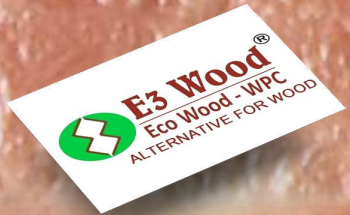


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Model



PE Foam Sheet



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Model

GRP 30mm Solid & Semi Solid Door Shutters

CONTEMPORARY

Doors that makes a bold statement but at the same time be simple and uncluttered, without curves or decoration.

Smooth, clean, geometric shapes with wooden grains.



DESIGNER SERIES

The Designer Series range gives you the opportunity to tailor a look for your lifestyle, so you can be bold and make a statement with the use of a door which will complement and blend in with the remaining materials for your home.



DESIGNER SERIES

Designer Series Doors and Entrances reflect Forenge's finest craftsmanship and each project is custom engineered to meet even the most demanding design specifications.

The doors available with designer patterns of wood grain background and metal strips impregnation.



CONTEMPORARY

Fundamentally, a contemporary style is defined by simplicity, subtle sophistication, deliberate use of texture, and clean lines.

The luxury products coupled with a great outlook to elevate the total appeal of your home and there by enhance the self esteem of an individual who owns this door.

The Doors are available with different wooden colours and textures.



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Conclusion

A Green Energy revolutionary product has been developed with a vision of recycle, reuse & reduce use of wood

Now our responsibility & promote an alternative materials for wood (Wood alternative) to protect an Earth, Tree, Green, Carbon Foot Print, Control Global warming & Environment.

Developed various wood Polymer Composites (WPC) in an Innovative way Tested and few domestic projects were done successfully and few of them are ongoing.



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E3 Wood[®]
Eco Wood - WPC
ALTERNATIVE FOR WOOD

Thank You