



Mazi® Recycled Wood Plastic Composite

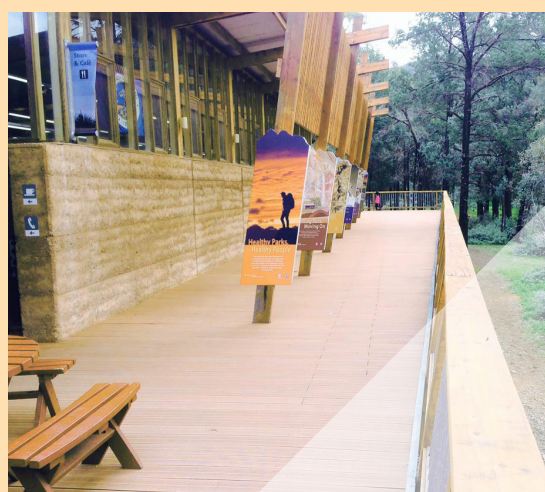




The denomination ‘wood-plastic composites’, WPC, is used to designate materials or products made of one or more natural fibres or flours and a polymer or a mixture of polymers.

Natural fibres and flours come from different vegetable sources (e.g. wood, hemp, sisal, jute, kenaf, rice) and all kinds of polymers (virgin or recycled) can be used but currently the most common ones are polypropylene (PP) and polyethylene (PE).

Mazi® Recycled Wood Plastic Composite Decking Applications



Mazi® Recycled Wood Plastic Composite Furniture Applications



Mazi® Recycled Wood Plastic Composite Profile Sizes

SIS's research and development into WPC ingredients, manufacturing processes and products is always ongoing, it is false to assume that it is just waste wood and a kind of polymer mixed together and pressed through an extrusion die or into the cavity of an injection mould.

Our innovative, state of the art WPC compounds are well advanced. We have a large investment in intellectual property associated with wood conditioning, treatment, stabilisation of various polymers as well as crucial additives and processing.

Our composite formula's brings together the best qualities of wood and plastic to create a superior alternative to wood:

- Plastic shields the wood from moisture and insect damage, preventing rotting and splintering;
- Wood protects the plastic from UV damage while providing a natural, attractive look and feel.

The result is sustainable timber alternative products that require only periodic cleaning to remain sound for many years, therefore eliminating the need for sanding, staining or painting. It will not rot or deteriorate due to harsh weather or insects and is splinter-free and has excellent traction, even when wet. It contains no toxic chemicals or preservatives. WPC resists damage from moisture and sunlight, making it the natural choice for aquatic and marine environments to name a few.

SIS's WPC products are quickly becoming the popular choice for stakeholders in projects large and small. Although they can be more expensive than traditional building materials, when looked at in a whole of life capacity it is quickly realised that WPC's are the right choice when considering environmental, cost and life-cycle maintenance issues when planning projects.

Mazi® Recycled Wood Plastic Composite Sizes

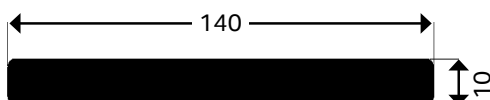
NOTE:

Any profile size can be manufactured within 300mm x 300mm.

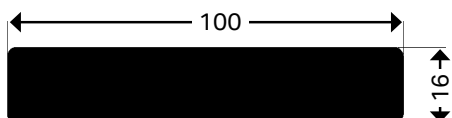
Minimum quantities apply.

Product code	Product image
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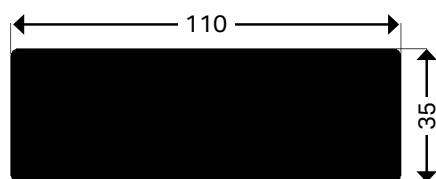
SIS-14010-WPC



SIS-10016-WPC



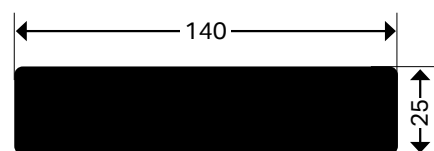
SIS-11035-WPC



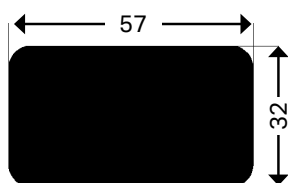
SIS-3918-WPC



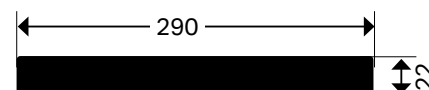
SIS-14025-WPC



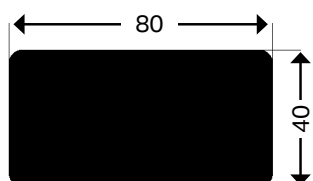
SIS-5732-WPC



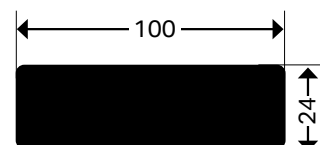
SIS-29022-WPC



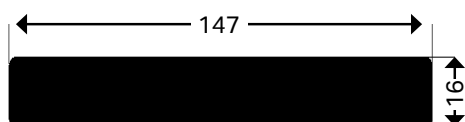
SIS-8040-WPC



SIS-10024-WPC



SIS-14716-WPC

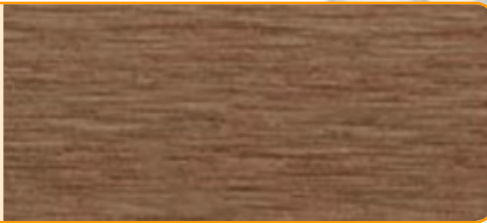


Mazi® Recycled Wood Plastic Composite Colours

Desert Red



Saddle Brown



Ash Grey



Black Graphite



Further benefits of Mazi® WPC's include:



**Contains renewable
resources**



**Does not warp,
crack or rot**



**Tailoring with
traditional wood-
tools**



**Does not attract
mould**



**Variety of iron
based, colour fast
colours**



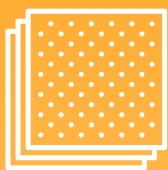
**Reduced
weathering,
zero maintenance**



**Feels like wood,
natural touch**



**Better stiffness
than non reinforced
plastic**



**Excellent
anti-slip, due
to sanding**



**Recyclable at end
of life**



**Adjustable
technical
properties**



**Hollow, solid and
complex profiles
possible**

SIS USES AND RECOMMENDS

HULK FASTENERS.



Screw material: Stainless steel



Screw dimensions: 5mm x 63mm

Screws match deck colours



Black graphite



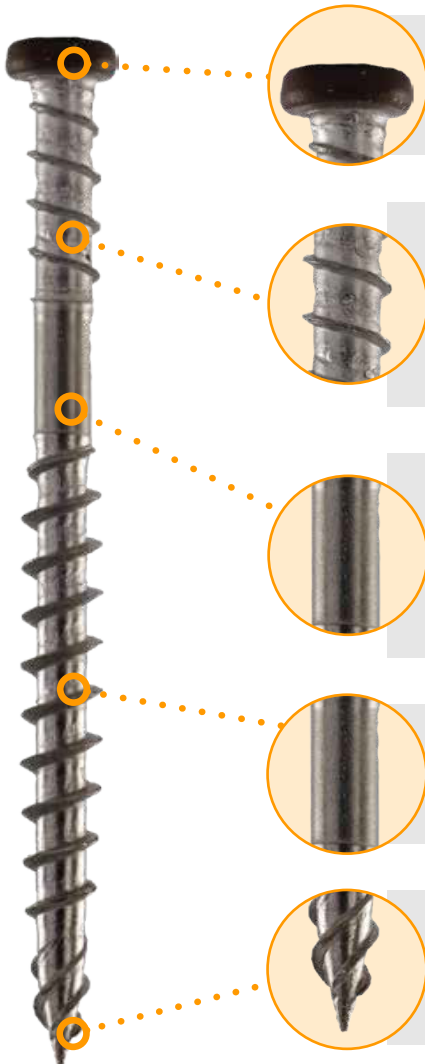
Saddle brown



Desert red



Ash grey



Head - pan or washer head

To resist screw pullout or sinking too deep into soft materials.

Reverse thread - rollet (or a wing may be used instead - see metal)

Removes excess material in cases of top fixing and enlarges the hole within the composite board, making space for expansion and contraction.

Shank - standard

The shank has no thread. This stops the composite from causing unwanted rotation in the screw, and in cases of clip screws, leaves additional space for the clip, which may allow for the gap between the boards to be reduced.

Thread - v-thread for timber

Large threads are able to cut through materials easily and resist pullout.

Tip - torpedo or type 17

Pre-drilling tips allow for the use of the screw without pre-drilling*. Torpedo is a HULK-specific tip that makes for quicker, more controlled installation.



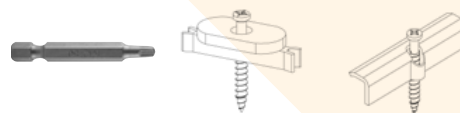
HULK multi-purpose fasteners are the best choice for any outdoor, corrosion-risk, or long term application. HULK fasteners™ use an advanced bit lock system which maximises torque transfer, assembly speed as well as the life of bits and screws. HULK fasteners™ are the best choice for deck construction.



Starter kits

5 m2 HULK Starter kit

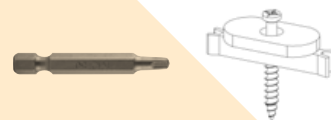
- 125 Torpedo Clip Screws
- 115 Plastic Clip
- 10 Stainless Steel Starter Clips
- 1 Drill Bit



Expansion kits

10 m2 HULK Starter kit

- 250 Torpedo Clip Screws
- 250 Plastic Clip
- 1 Drill Bit



75 Composite deck/fascia screws

75 Top fixing screws

- 75 Composite deck screws
- 1 Drill Bit



Mazi® Wood Plastic Composite (WPC) Material Safety Data Sheet (MSDS)

Non-Hazardous RECLAIMING COMPOSITE THERMOPLASTIC MATERIAL

Version No.3 Date: 10/11/2020

Statement of Hazardous Nature

This material is **NON-HAZARDOUS** according to criteria of NOHSC (WORKSAFE) AUSTRALIA

1. Identification of the substance / Preparation & the company undertaking

This MSDS covers the following products:

Product names	Description	Preliminary use	Appearance
L D Polyethylene	Plastic film	Industrial pallet wrap	White/Clear/Coloured film
L LD Polyethylene	Coloured plastic film	Agricultural film wrap	Green/Black/White film
H D Polyethylene	Plastic bottles	Soft drinks–Milk–Juices	White/Clear/Coloured mat.
Polystyrene	Packaging material	Electronic/Parts–Boxes	White/Coloured material
Sawdust	Tiny particles of wood	Timber Industries	Brown dark particles

2. Company details

Sustainable Infrastructure Systems (Aust) Pty Ltd

ABN: +61 160 899 703

Address: Level 6, 147 Pirie Street, Adelaide SA Australia 5000

Telephone: 1300 261 074

Fax: 1300 081 075

Emergency telephone: 1300 261 074 (During business hours)



Poison information centre: 13 11 26 (24hrs)

3. Hazard identification

This material is Non Hazardous according to criteria of NOHSC (WORKSAFE) AUSTRALIA

For components which are not hazardous, CAS Numbers are not stated.

4. Composition / Ingredient information / First Aid measures

Primary use: Industrial/ Building and agricultural products. Chemical Entity	CAS No.	Proportion
Co-polymer of Ethylene	26221-73.8	> 50%
Polystyrene	100-42-5	<20 %
Sawdust	N/A	<30 %

Swallowed	Rinse mouth thoroughly with water. Seek medical attention if effect persists (give nil by mouth to unconscious persons).
Eye	Wash out immediately with running water for 15 minutes, eyelids to be held open. If effect persists seek medical attention.
Skin	Wash off with plenty of warm soapy water. Do not use organic solvents. If effect persists seek medical advice.
Inhaled	Remove to fresh air, rest until recovered and keep warm. Consult Occupational Health Physician if effect persists.
Advice to Doctor	TREAT SYMPTOMATICALLY

5. Fire fighting measures

Specific hazards	NOT APPLICABLE
Fire fighting advice	Fire/Explosion Hazard: all beware of combustible gases that will be generated. Extinguishing Medium: water fog/spray, dry chemical, and carbon dioxide. ***BREATHING APPARATUS TO BE WORN IN FIRE SITUATIONS***

6. Accidental release measures

Personal protection	NOT APPLICABLE (STEL = Not assigned)
Clean up spills/Leaks	NOT APPLICABLE (Solid material)
Land Fill conditions	Suitable landfill (Recycle where possible)

7. Handling & Storage

Storage	Store in area away from ignition sources.
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8. Exposure controls / Personal protection

Exposure standards	STEL (Work Safe/ACGIH) = Not assigned
Engineering controls	Ventilation: provide appropriate exhaust ventilation at places where dusty.
Personal protection	Skin: Wear gloves Eyes: Wear safety glasses Inhalation: Wear dust protection if dust is generated.

9. Physical & Chemical properties

Chemical type	Additives in polymer matrix
Decomposition point	> 350OC
Boiling point	NOT APPLICABLE
Melting point	190 Celsius
Vapour pressure	Not Available
Specific Gravit	0.75 – 0.98 grams per cubic centimetre
Flashpoint	Not Determined
Flammability limits	Not Known
Solubility in water	NIL
Hazardous ingredients	NOT APPLICABLE

10. Stability & Reactivity

Stability	Stable
Explosion hazard	NOT APPLICABLE
Hazardous decomposition products	NOT APPLICABLE
Incompatible substances	NOT APPLICABLE

11. Toxicological Information

Acute swallowed	Obstruction may cause choking
Eye	Mechanical damage only
Skin	Not probable. Encapsulated Ingredient
Inhaled	Not relevant for solid form
Chronic	No information available for the product

12. Ecological information

No data available, but due to very low solubility of the material in water no adverse effects are expected.

13. Disposal considerations

Refer to State Land Waste Management Authority.

THESE INDUSTRIAL AND AGRICULTURAL MATERIALS ARE RECYCLABLE.
PLEASE RECYCLE.

14. Transport information

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road or rail.

Correct Shipping Name	Not Listed
U.N. Number	Not Listed
Dangerous Goods Class and Subsidiary Risk	NOT APPLICABLE
HazChem Code	Non Allocated
Poisons Schedule	NOT APPLICABLE
Packaging Group	NOT APPLICABLE

15. Regulatory information

Non Hazardous according to the criteria of NOHSC (Work safe) Australia.

Emergency telephone: 1300 261 074 (during business hours)

 **Emergency telephone (outside business hours):**
Poison information centre (24hrs) 13 11 26

Follow good working practices: handle with care, avoid ingestion, dust inhalation. Since we cannot anticipate or control the many different conditions under which this information and our product may be used, each user should review these recommendations in the specific context of the intended application and confirm that they are appropriate.

This version authorised by: Steve Macarelli (SIS)

Sustainable Infrastructure Systems (Aust) Pty Ltd

ABN: +61 160 899 703

Address: Level 6, 147 Pirie Street, Adelaide SA Australia 5000

Telephone: 1300 261 074

Fax: 1300 081 075

END OF M.S.D.S Version No.3 Date: 10/11/2020

MAZI™ Wood Polymer Composite (WPC) Product Warranty

This warranty is non-transferable and applies only to the original purchaser with proof of purchase (receipt showing purchase date). Our MAZI™ WPC products are warranted free from manufacturing defects and not to wear through under normal residential use for 25 years, and 10 years for normal commercial use from the date of purchase.

EXCLUSIONS

Defects or damages caused by any inappropriate conditions, environmental factors, care, maintenance, poor installation, are not covered under warranty. Inappropriate conditions include, but are not limited to:

1. Damage caused by improper storage, handling, or installation;
2. Flooring installed in inappropriate locations;
3. Damage resulting from moisture problems. (Moisture emissions from concrete can result in high pH and alkaline conditions that can distort the product.);
4. Damage caused by exposure to extreme heat;
5. Damage caused by fire, flood, storm, smoke, intentional abuse, etc;
6. Damage caused by animals, or furniture without appropriate protection.

Before installation, please inspect the planks carefully. Do not install if defects are found.

Minor colour variation is normal. Colour differences between sample and actual product are not considered a manufacturing defect.

THIS WRITING IS THE COMPLETE AND EXCLUSIVE STATEMENT OF THE WARRANTY, AND IS IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES.

Warranties cannot be altered by any sales representative or distributor. Sales representatives and distributors have no authority whatsoever to establish, expand, or otherwise modify warranties.

Sustainable Infrastructure Systems (Aust.) Pty Ltd limited warranty provisions are deemed to be severable, and the invalidity or unenforceability of one provision shall not affect the validity or enforceability of any other provision. **Sustainable Infrastructure Systems (Aust.) Pty Ltd** limited warranties constitute the entire agreement of the parties, and no waiver or amendment shall be valid.

HOW TO MAKE A CLAIM

All claims must be filed by the original purchaser of the flooring material, who must still be the owner of the products.

To file a claim, first contact the Certified Retailer where the purchase was made, who must submit the claim on your behalf. You will be required to provide information including but not limited to: Your name, address, contact information, date of purchase, contact information for the licenced professional installer, and the original sales invoice showing proof of purchase.

Claims must be filed within the warranty coverage period. **Sustainable Infrastructure Systems (Aust.) Pty Ltd** reserves the right to have a designated representative inspect the decking and remove samples for technical analysis. Manufacturer must be given a reasonable opportunity to inspect flooring prior to determining coverage or remedy.



Contact Us

Questions about your **Sustainable Infrastructure Systems (Aust.) Pty Ltd** purchase? Please contact us at: <https://www.sisau.com.au/contact-us>



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Australian Head Office

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