



Premium Wood Composite







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ECO-Friendly  
Products

# Greater Alternatives for Environmental Assuagement





**Seng Liy** is a committed believer in environmental sustainability. This belief acts as the main driver behind the launch of "**Gaea**". We believe that Gaea, an ancient Greek goddess, and personification of Earth, best represents our ideals and motivator to become the green building material solutions provider of choice. The Gaea brand promotes the usage of wood polymer composite in creating innovative products to protect the environment while caring for our customers' needs.

Through Gaea, Seng Liy provides quality **eco-friendly products** based on the circular economy concept of sustainable production, consumption, and recycling, delivering a zero-waste solution. Our innovative eco-friendly products include Gaea® door, wall panels, outdoor decking, wall cladding and railing series. We believe Gaea has endless possibilities in creating a lasting impact on the community by building a better and sustainable future for all.

Gaea, pronounced as "ghe-ea", which originates from ancient Greek - Gaia, the goddess of Earth, as mother of all life who represents the entire system of Planet Earth.



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# Gaea's Sustainability

## Goals to the Road of Sustainability

We aim to share the action we are committing in building construction industry for a **better, sustainable future world of living**.

Think of the idea on what possible to make a difference, we strive to encourage the belief of creating a sustainable world isn't an abnormality. It shall be a basic demand in creating green building solutions.

We know this could be done more, and we strive to encourage a "**zero waste**" commitment to the industry such as business partner, clients and society in taking action, step in or join us towards the road of environmental sustainability.





# MAKE SUSTAINABILITY POSSIBLE, NOW AND FUTURE







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# Premium Wood Polymer Composite

Wood polymer composites ( WPCs ) are composite materials made of **wood fiber / wood flour** and **thermoplastic**.

**WPC** is widely used in many applications such as door, window, railings, fences, furnitures etc.



 **100%**  
recyclable material

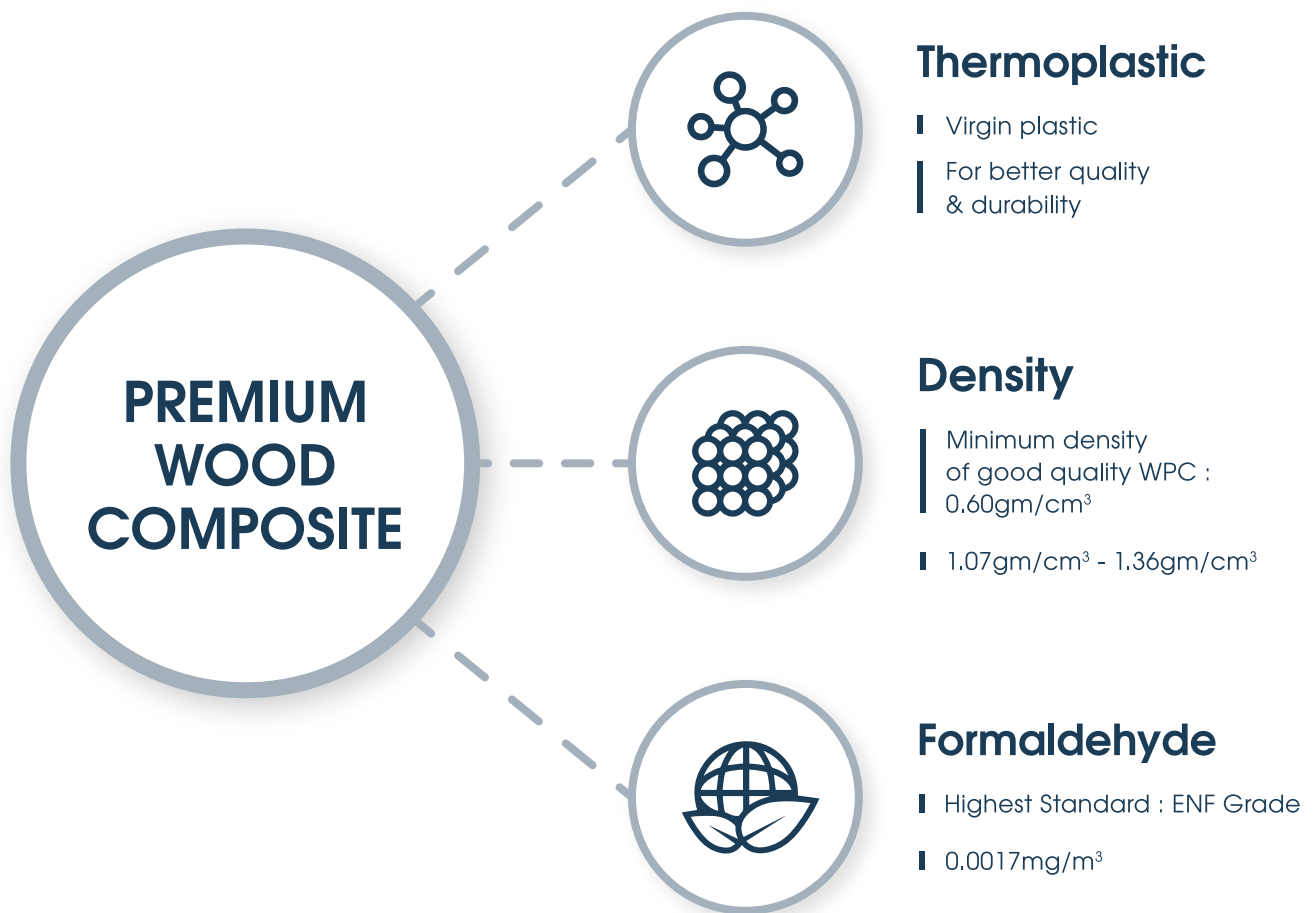




# Wood Polymer Composite Production Process



# What Made Us Different?





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# Why choose Gaea WPC?



**100%  
waterproof**



**Easy to clean**



**Low chemical**



**Borer &  
termite proof**



**Rot & warp  
resistant**



**Long lasting &  
cost effective**



**100%  
recyclable**



**ECO-Friendly  
Products**







# INDOOR PRODUCT

| The  
Eco Alternative to  
Tropical Hardwood

# Göda Dörr





# Gaea Dörr

- First 100% waterproof wooden door in Malaysia.
- An eco-substitution to solid wooden door.
- Strength of solid wooden door with extra features.
- Design and made in a modular of easy to install package.



## The Unique Benefits

- ✔ Can be installed even after plastering.
- ✔ Clean and easy installation without cement needed.
- ✔ Lifetime warranty on waterproof and termite proof.

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# Features



**Strong &  
durable**



**Quick & easy  
to install**



**Modular  
system**



**Low  
formaldehyde**



**Low  
maintenance**



**Lifetime warranty  
provided**

Terms & conditions apply.



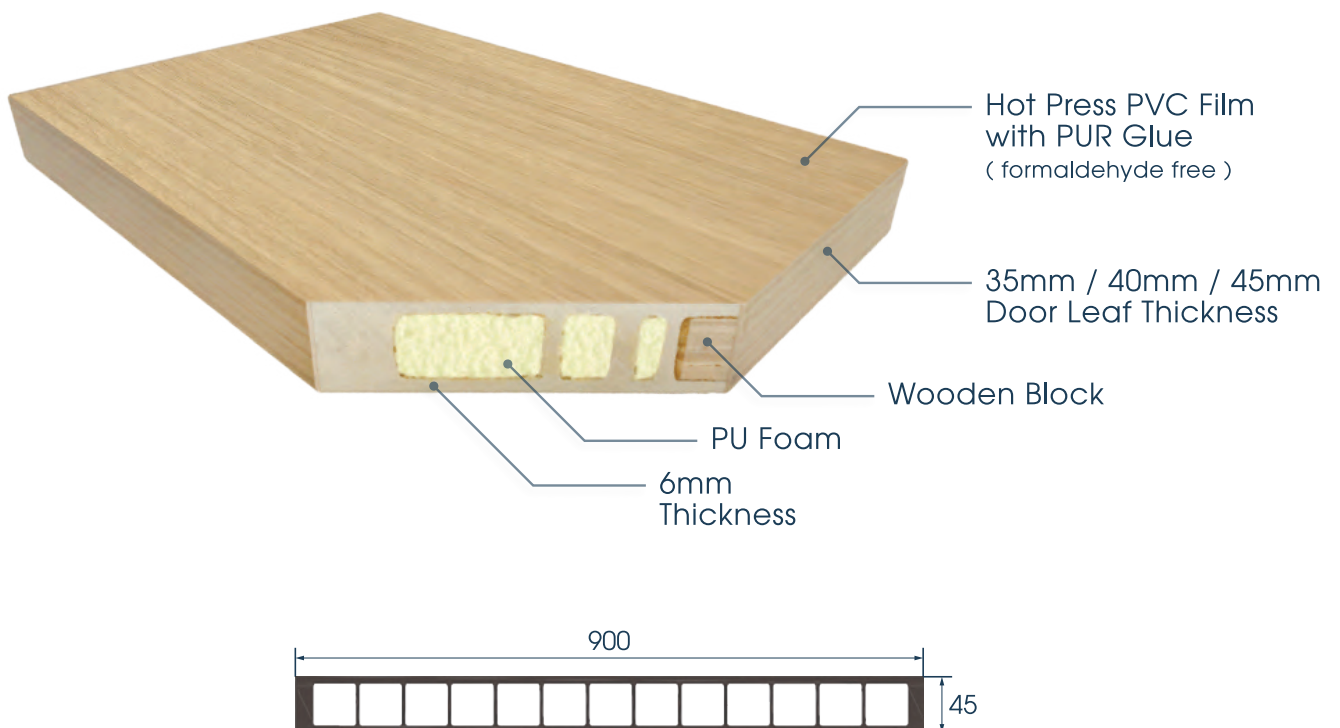
**ECO-Friendly  
Products**





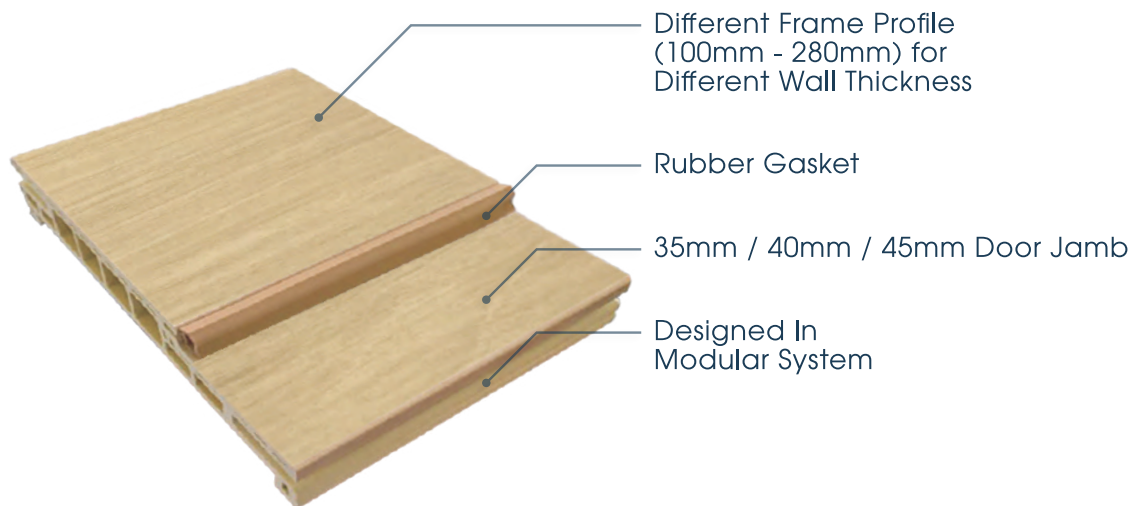
## Structure - Door Leaf

Code : **GIDL-0102**



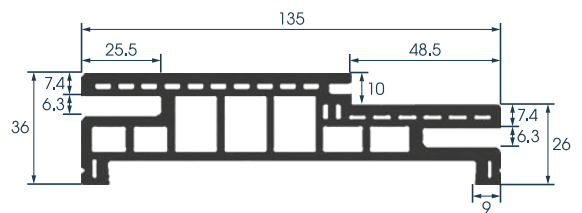
# Structure - Door Frame

Code : GIDF-0102



## Remarks :

Wall Thickness Minimum Width : 110mm  
Wall Thickness Maximum Width : 300mm



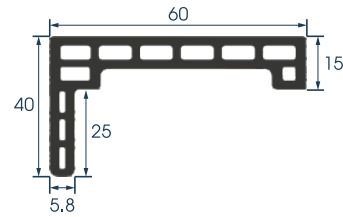


# Profiles - Architrave

## Gaea Dörr Architrave Square

Code : **GIDA-0102**

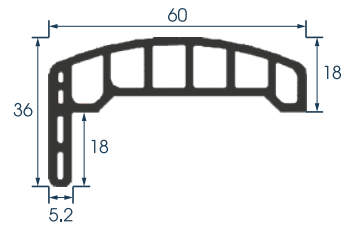
( 60mm W x 25mm H )



## Gaea Dörr Architrave Half Rounded

Code : **GIDA-0202**

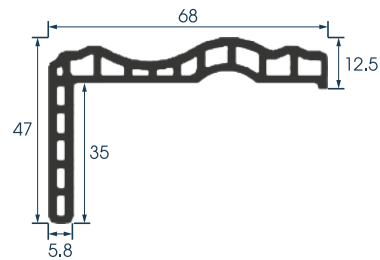
( 60mm W x 18mm H )



## Gaea Dörr Architrave Moulded

Code : **GIDA-0302**

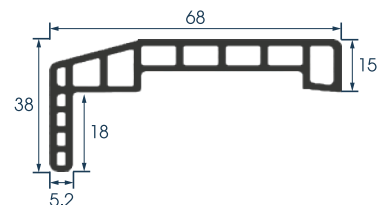
( 68mm W x 35mm H )



## Gaea Dörr Architrave Chamfered

Code : **GIDA-0402**

( 68mm W x 18mm H )



# Gaede Väggbpanel Gaede Innertak

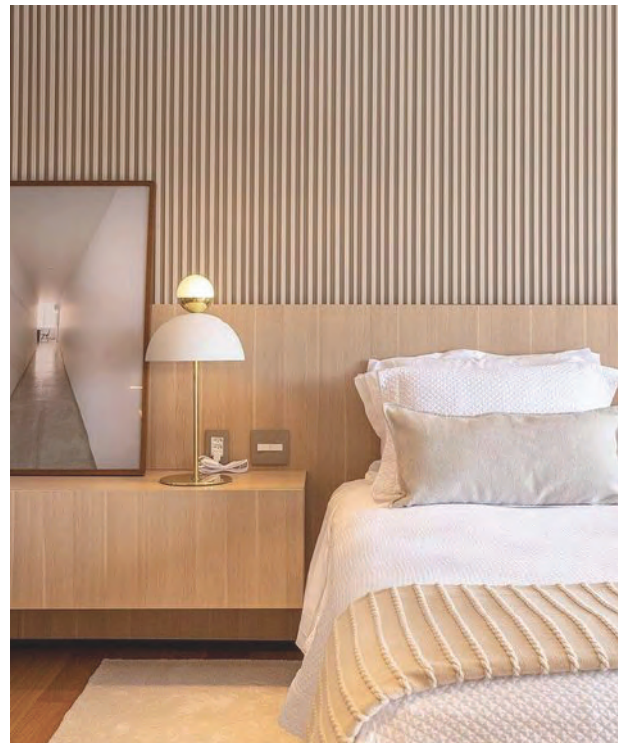




# Gaea Vägghpanel ( Wall Panel )

# Gaea Innertak ( Ceiling )

- Premium, wood textured design WPC wall panel as a replacement for aesthetic look of indoor environment.
- Modern, stylish appearance, premium finishing.



## The Unique Benefits

- ✔ Lifetime warranty on waterproof and termite proof.

# Features



**Excellent  
durability**



**Low  
formaldehyde**



**Sound  
insulated**



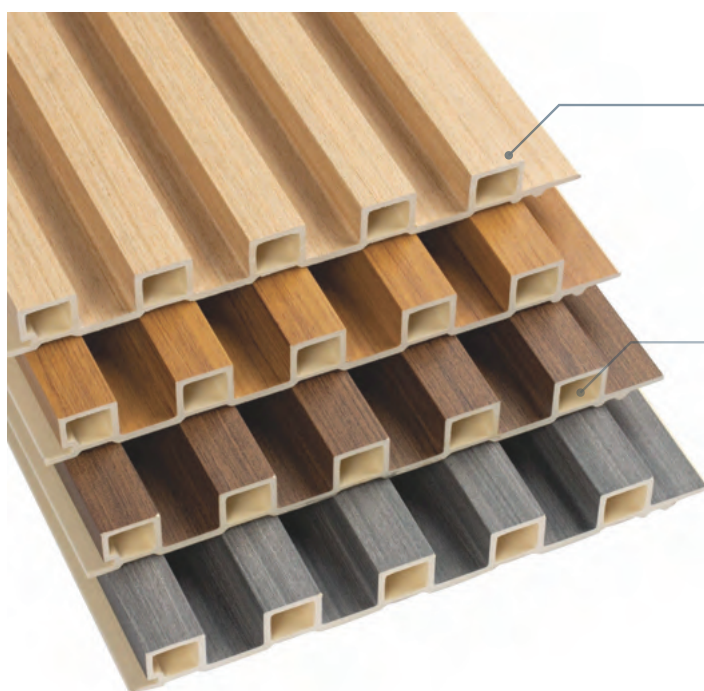
**Heat  
insulated**







## Structure - Gaea Vägghpanel ( Wall Panel )



### Hot Press PVC Film with PUR Glue ( formaldehyde free)

- Wood like texture aesthetic look
- Easy to clean

### Wood Composite Based Board

- Sound and heat insulation without deformation

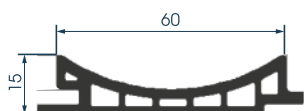
# Profiles - Gaea Vägghpanel ( Wall Panel )



## Gaea Vägghpanel Curved

Code : **GIWP-0302**

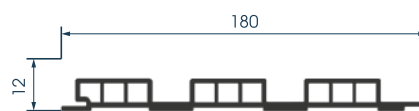
( 60mm x 15mm x 3,000mm )



## Gaea Vägghpanel Fluted

Code : **GIWP-0602**

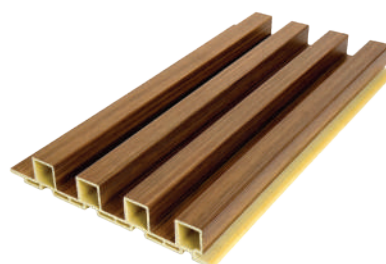
( 180mm x 12mm x 3,000mm )



## Gaea Vägghpanel Fluted

Code : **GIWP-0402**

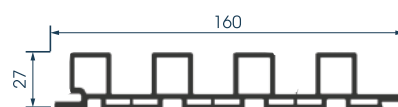
( 140mm x 10mm x 3,000mm )



## Gaea Vägghpanel Fluted

Code : **GIWP-0502**

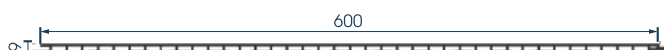
( 160mm x 27mm x 3,000mm )



## Gaea Vägghpanel Flat

Code : **GIWP-0102**

( 600mm x 9mm x 3,000mm )



### Remarks :

All wall panels are in **3 meter (L)** standard size. Special sizes available upon request.



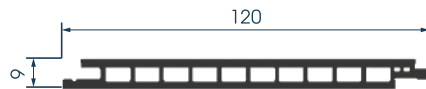
# Profiles - Gaea Innertak ( Ceiling )



## Gaea Innertak ( Flat )

Code : **GICL-0102**

( 120mm x 9mm )



## Gaea Innertak ( Flat )

Code : **GICL-0202**

( 150mm x 9mm )



## Gaea Innertak ( Fluted )

Code : **GICL-0302**

( 155mm x 9mm )

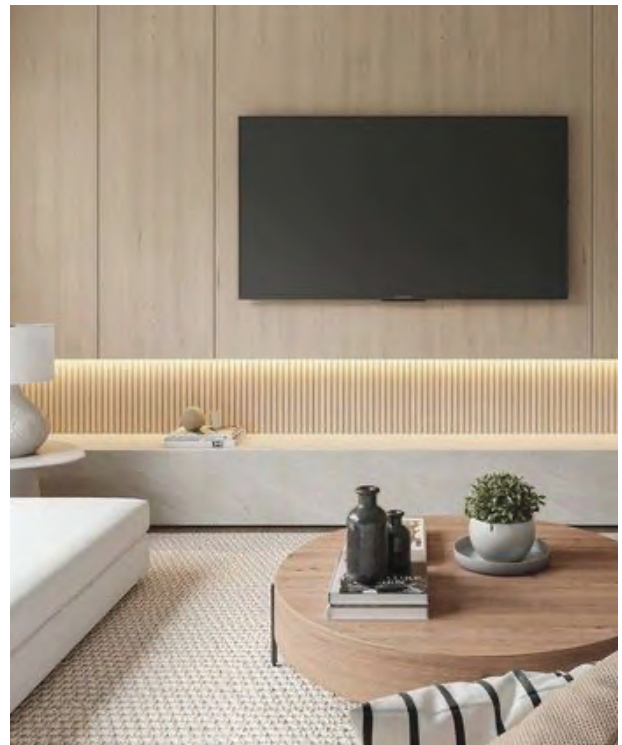


# Gaeed Kaino Panel



# Gaea Kaino Panel

- An eco-alternative to plywood.
- Highly durable and recyclable.
- Various thickness available.
- Can be utilized in interior home design, walls, general projects, DIY projects, etc.



## The Unique Benefits

- ▀ Able to match with various types of lamination or paints.



# Features



**100%  
waterproof**



**Rot & warp  
resistant**



**Borer &  
termite proof**



**Low  
maintenance**



**ECO-Friendly  
Products**





## Profiles - Gaea Kaino Panel

**Kaino Panel** ( 5mm )

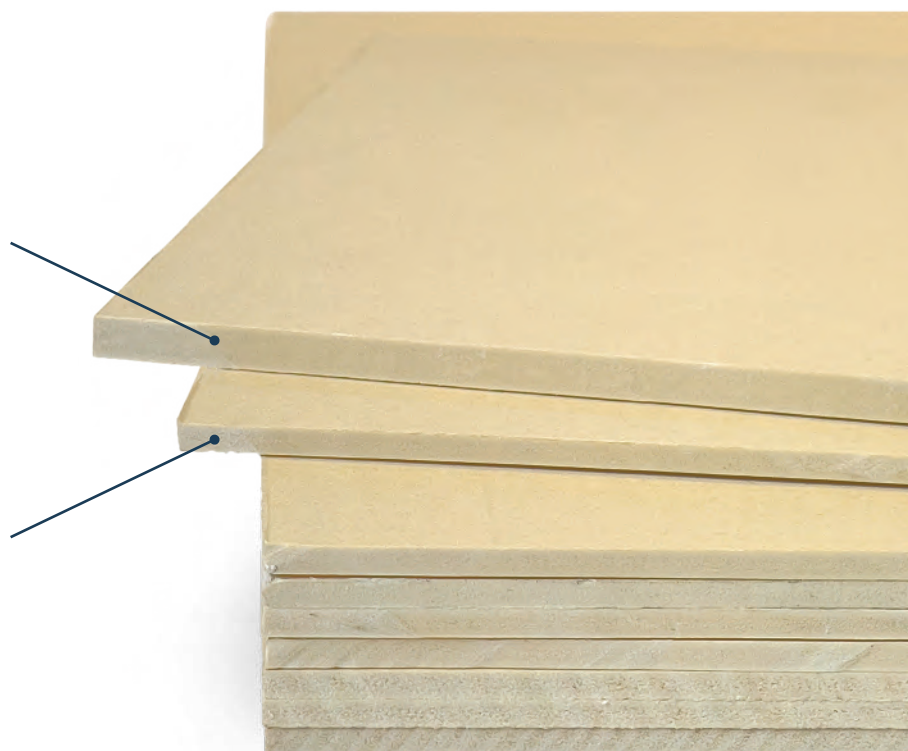
Code : **GIDO-0502**

( 1,000mm x 2,400mm x 5mm )

**Kaino Panel** ( 3mm )

Code : **GIDO-0402**

( 1,000mm x 2,400mm x 3mm )



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# Color Options



**Stockholm Pearl**



**Malmö Mahogany**



**Malmö Maple**



**Malmö Walnut**













# OUTDOOR PRODUCT

Create  
Beautiful Outdoor  
Environments  
That Last for  
Years to Come





Gadea Döck



# Gaea Däck

- Realistic wood embossing.
- High stain-resistance technology.
- Withstands harsh weather conditions .
- Able to manage high human traffic.
- Does not crack and splinter-free.



## The Unique Benefits

- ✔ 10 years of residential and 5 years of commercial warranty.
- ✔ 3 years warping warranty with our recommended system.
- ✔ Can be cleaned by using normal detergent and water only.

---

# Features



**Extremely  
durable**



**Anti-slip**



**No painting or  
coating required**



**Borer &  
termite proof**



**Water  
resistance**





# Profiles - Gaea Däck

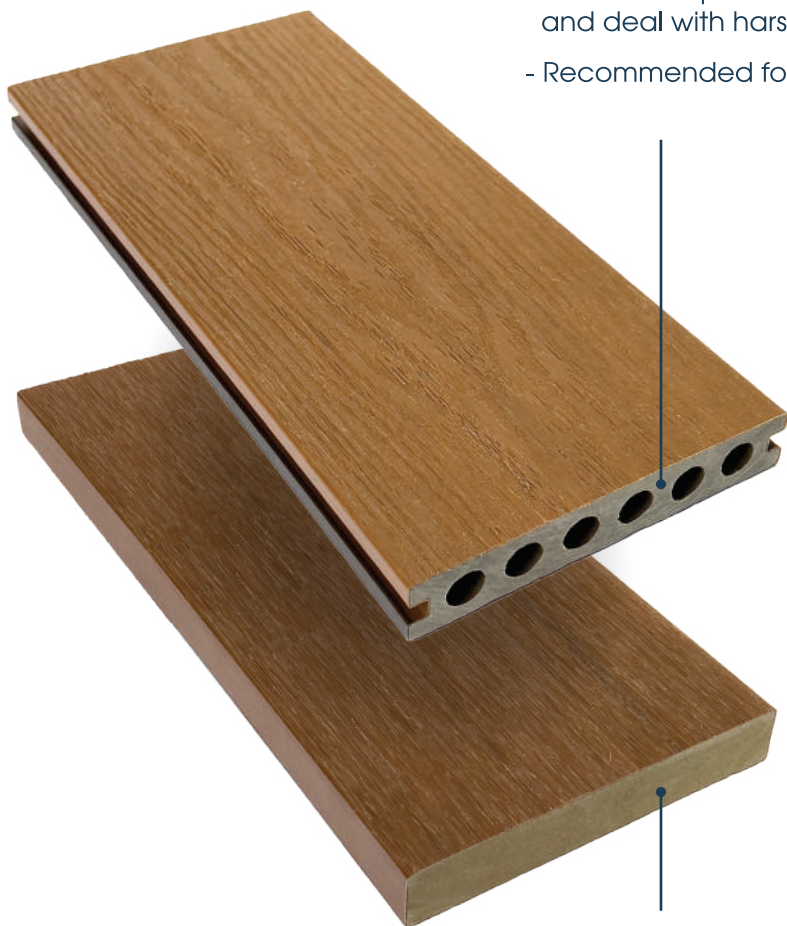
## Gaea Däck

Code : GEDK-0103

( 138 mm W x 23 mm H x 2,800mm L )

### Circular hollow core

- Reduce the products' weight but keep the strength and durability as solid core.
- Distribute impact or shock waves evenly through round core and deal with harsh weather conditions.
- Recommended for public usage with high footfall.



## Gaea Däck

Code : GEDK-0203

( 140mm W x 22mm H x 2,800mm L )

### Solid core

- Higher load bearing capacity.
- More possibility for different design.

# Accessories - Gaea Däck



## Connector Clip

- SUS 304 ( Stainless Steel Clip )

Code : **CLP01DK-05**



## Started Clip

- SUS 304 ( Stainless Steel Clip )

Code : **CLP02DK-05**



## Deck Joist

- Premium Wood Composite

Code : **GEDKA-0303**



## Deck L-edge

- Premium Wood Composite

Code : **GEDKA-0203**



## Deck Beam

- Premium Wood Composite

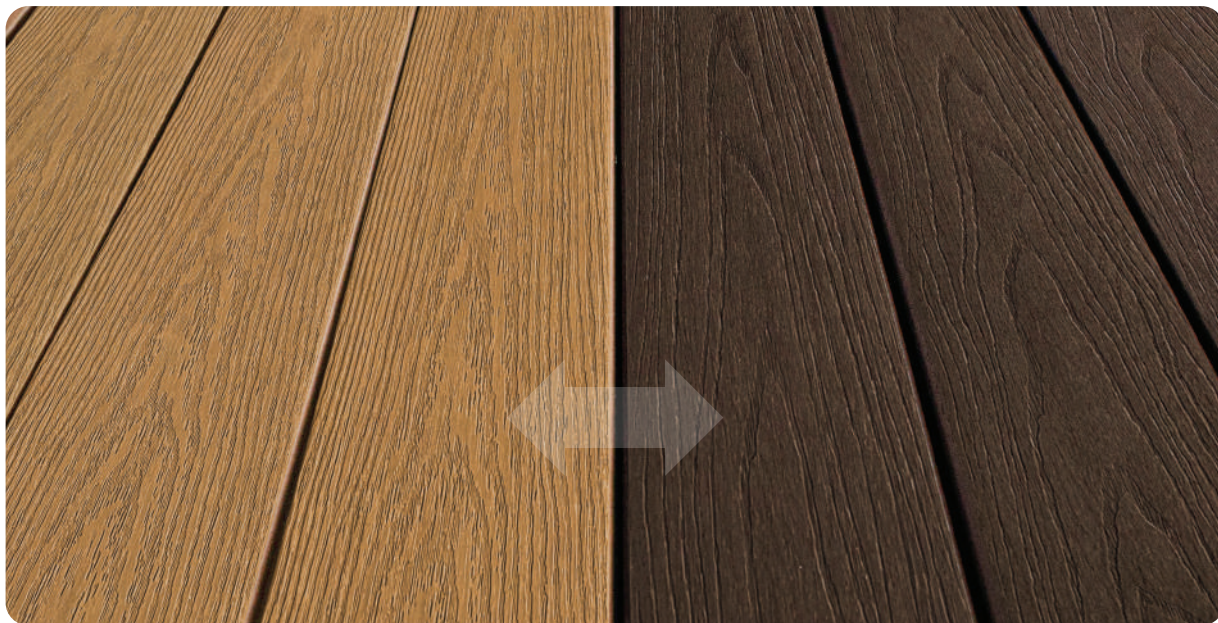
Code : **GEDKA-0103**

---

# Color Options

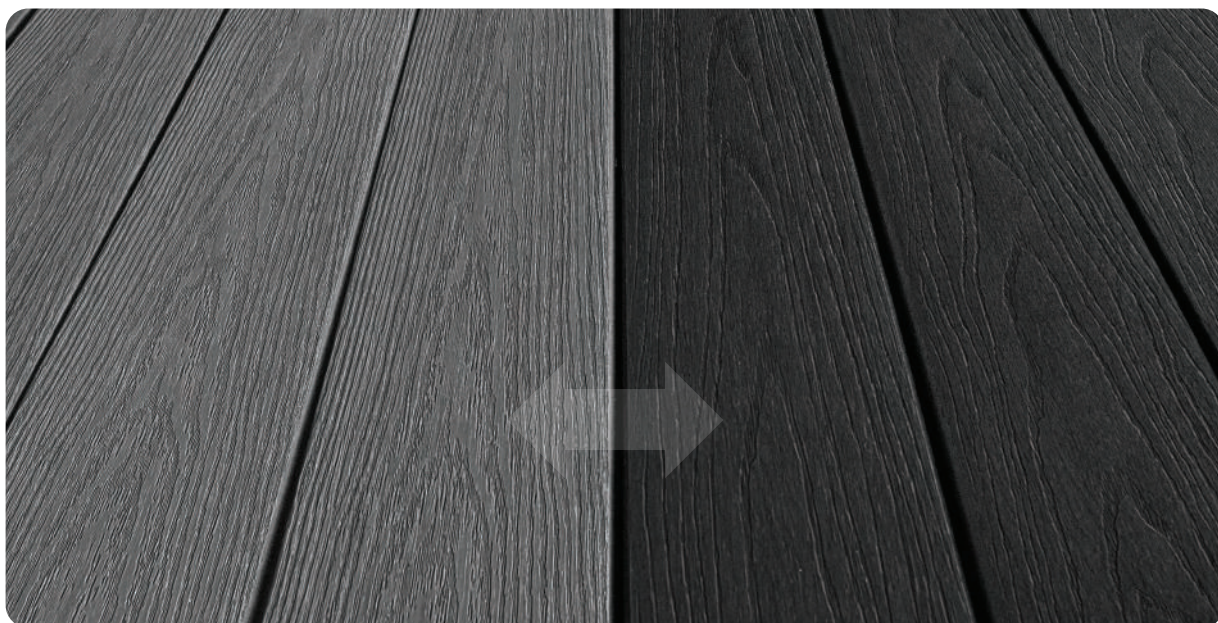
layer A  
**Copenhagen Teak**

layer B  
**Copenhagen Walnut**



layer A  
**Copenhagen Grey**

layer B  
**Copenhagen Coal Black**





# Gaede Outdörr Vägghpanel Gaede Röls



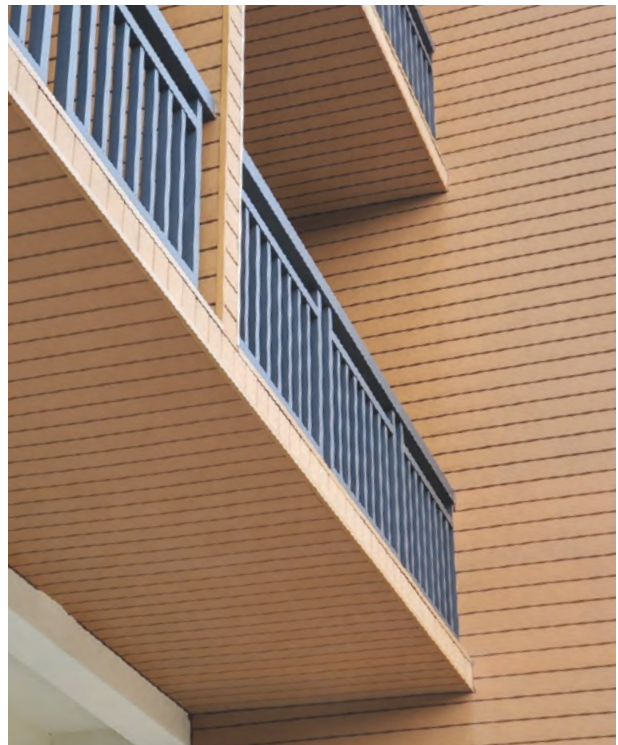
# Gaea Outdörr Väggpanel

( Outdoor Wall Panel )

## Gaea Räls

( Railing )

- Realistic wood embossing.
- Does not crack and splinter-free.
- High stain-resistance technology.
- Withstands harsh weather conditions.



### The Unique Benefits

- ▀ Can be cleaned by using normal detergent and water only.

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# Features



**Excellent  
durability**



**Non-swelling**



**No painting or  
coating required**



**Borer &  
termite proof**



**Water  
resistance**



# Profiles - Gaea Outdörr Väggspanel

( Outdoor Wall Panel )



## Gaea Outdörr Väggspanel

Code : **GEWP-0103**

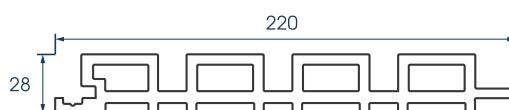
( 174mm W x 21mm H )



## Gaea Outdörr Väggspanel (Fluted)

Code : **GEWP-0203**

( 220mm W x 28mm H )



## Gaea Räls ( Deck Board )

Code : **GEWP-0303**

( 140mm W x 10mm H )



## Gaea Räls ( Deck Board )

Code : **GEWP-0403**

( 200mm W x 12mm H )





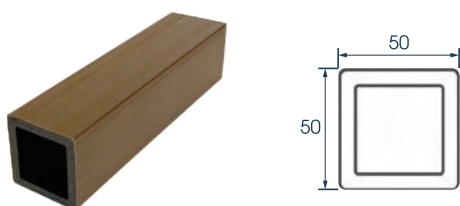


# Profiles - Gaea Räls ( Railing )

## Gaea Räls ( Beam )

Code : **GERL-0103**

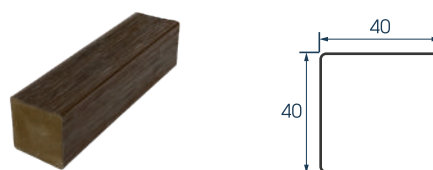
( 50mm x 50mm )



## Gaea Räls ( Beam )

Code : **GERL-0403**

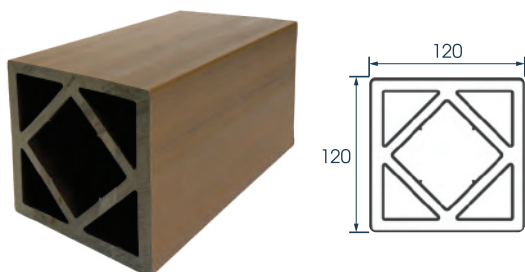
( 40mm x 40mm )



## Gaea Räls ( Column )

Code : **GERL-0203**

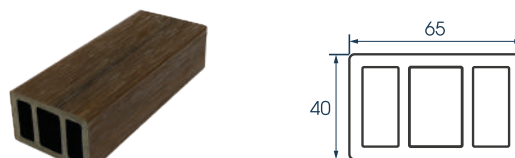
( 120mm x 120mm )



## Gaea Räls ( Beam )

Code : **GERL-0503**

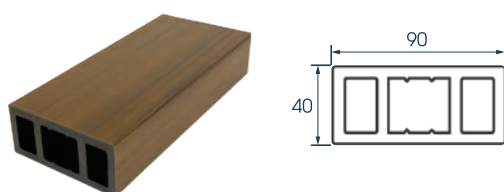
( 65mm x 40mm )



## Gaea Räls ( Beam )

Code : **GERL-0303**

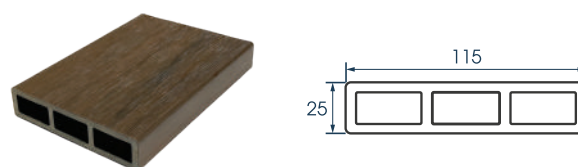
( 90mm x 40mm )



## Gaea Räls ( Column )

Code : **GERL-0603**

( 115mm x 25mm )



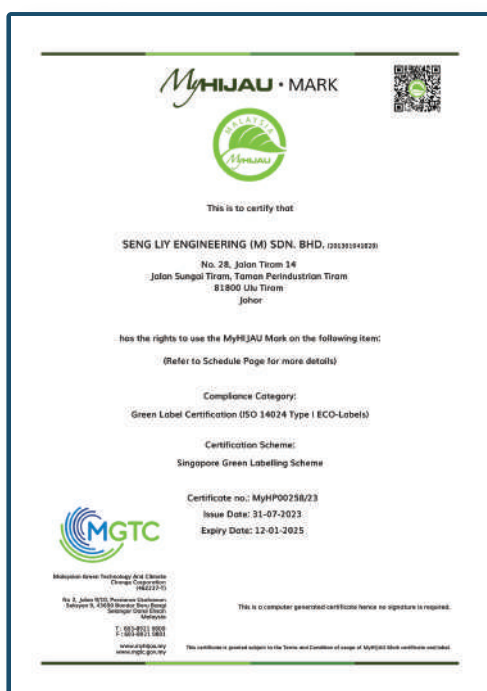






# **TEST SHEETS & CERTIFICATES**

# Gaea Indoor Products Testing Fact Sheet





**SGS**

**TEST REPORT**

No. : SHIN191205046MR  
Date : Dec 09, 2019  
Page: 1 of 3



CUSTOMER NAME: SENG LYI ENGINEERING (M) SDN BHD  
ADDRESS: NO.28,JALAN TIRAM 14,TAMAN PERINDUSTRIAN TIRAM,JALAN SUNGAI TIRAM,81800 ULU TIRAM,JOHOR,MALAYSIA

Sample Name : WPC door  
Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No. : SHIN1911083880CM  
H2IN1911007119C


Date of Receipt : Dec 03, 2019  
Testing Start Date : Dec 05, 2019  
Testing End Date : Dec 06, 2019  
Test result(s) : For further details, please refer to the following page(s)  
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)



Signed for  
SGS CSTC Standards Technical  
Service (Shanghai) Co., Ltd.  
*Xie Ha*  
Xie Ha  
Authorized signatory

Member of the SGS Group (SGL 554)



 **SIRM GAS International Sdn. Bhd.**  
(Company No.: 1666102791) (410234-X)  
No. 1, Precision Drive, Menara, Section 2, P.O. Box 7635  
40700 Shah Alam, Selangor Darul Ehsan, Malaysia  
Tel: (03) 54450200/54450201  
Fax: (03) 54450209  
www.sirmgas.com.my

**TEST REPORT**

REPORT NO.: 2021PC0486 PAGE: 1 OF 4

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**THIS TEST REPORT IS ISSUED IN SECURED PDF SOFTCOPY**

Applicant : SENG LYI ENGINEERING (M) SDN BHD  
No. 28, Jalan Tiram 14  
Taman Perindustrian Tiram  
Jalan Sungai Tiram  
81800 Ulu Tiram  
Johor

Manufacturer : - same as above -

Product : GAEA Premium Wood Composite Door  
Model : GAEA Door  
Trademark : GAEA  
Type : Wood Polymer Composite (WPC) Door

Reference Standard/  
Method of Test : ASTM D2240-2015 - Standard Test Method for Rubber Property -  
Durometer Hardness

Description of Sample : Three (3) pieces of new test specimens for sample indicated  
above were received on 14 July 2021. Photograph of the test  
specimens is shown in Appendix A.


Date Received of  
Complete Application : 14 July 2021


Job No. : J20211460335

Description of Test  
Results : The test result of the submitted test specimens is described in  
Page 2 of this test report.

Issued Date : 15 July 2021

Approved Signatories:

  
(In Zarna Razmin)  
Principal Testing Executive

  
(Rahmad Abd Shukor)  
Head  
Plastics and Composite Materials Section  
Testing Services Department

Page 10 of 10





**intertek**  
Test Quality Assured

Intertek Testing Services Shenzhen (Shenzhen Region Branch)  
Floor 5, No. 0554 Dapin Road, Fenganan District, Shenzhen, China  
Tel: 001-852-361514 Fax: 001-852-339921  
Website: www.intertek.com

**Test Report**

Issue Date: 2020-04-15 Intertek Report No: 2003300080HF-001

Applicant: SENG LY ENGINEERING (M) SDN BHD  
Address: NO. 28, JALAN TIRAM 14, TAMAN PERINDUSTRIAN TIRAM, JALAN SUNGAI TIRAM, 81800 ULU  
TIRAM, JOHOR, MALAYSIA

Alt: Zen  
Test Type: Performance test, samples provided by the applicant.

**Product Information**

Product Name	CO EXTRUSION WPC	Brand	GASA
Sample Description	Good Condition	Sample Amount	33 pcs
Sample ID		Received Date	1000-03-30
5320330080HF-001-008	GOA/DE-CL1	Specification	138*22mm

**Test Methods And Standards**

Test Standard	EN 15534-1:2014 Section 6.1, 6.5, 6.6, 7.1.2.1, 7.5, Annex A EN 15534-4:2014 Section 4.3, 4.4, 4.5.1, 4.5.2, 4.5.7, EN 15534-1:2014+A1:2017 Section 6.2 and 6.5, ISO 1183-1:2004 Method A, EN 322:1999
Specification Standard	EN 15534-6:2014
Test Conclusion	The samples were tested according to the above standards, and the results are shown in the following page.

Note:  
1. This report relates specifically to the sample(s) that were drawn and provided by the applicant or their nominated third party. The reported result(s) provide no warranty or verification on the sample(s) representing any specific goods and/or shipment and only relate to the sample(s) as received and tested.

**Report Authorized**

Name: Flora Fan  
Title: Hardware

Name: Jackie Zhou  
Title: Project Engineer

Version: 1 May 2019 Page 3 of 12 LIT-APAC-QHE-CP-106

**intertek**  
Total Quality. Assured.

**SIRIM QAS International Sdn. Bhd.**  
Company No: 1980187081 (1980A-83)  
No. 1, Persiaran Damawan, C.O. B20, T205, Section 2,  
40700 Shah Alam, Selangor Darul Ehsan, Malaysia  
Tel: 03-65444007 Fax: 03-65444481  
www.sirim-qas.com.my

**TEST REPORT**

REPORT NO: 2022CE1508 PAGE: 1 OF 4

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Applicant: SENG LY ENGINEERING (M) SDN BHD  
No. 28, Jalan Tiram 14, Taman Perindustrian Tiram  
Jalan Sungai Tiram  
81800 Ulu Tiram  
Johor

Manufacturer: same as above

Product: GAEA Premium Wood Composite Deck

Reference Standard / Method of Test: ISO 1183-1:2019 - Plastics - Methods for Determining the Density of Non-Cellular Plastics - Part 1: Immersion Method, Liquid Pycnometer Method and Titration Method

Description of sample: New test sample indicated above was received on 21 June 2022. A photograph of the test sample is shown in Appendix A.

Date Received of Complete Application: 23 June 2022

Job No.: J20223671304

Description of Test Results: The test result of the submitted test sample is described on Page 2 of this test report.

Issued Date: 27 June 2022

Approved Signatory:

(K. ZARINA BINTI RASMAN)  
Principal Testing Executive

(HANNAS BINTI MAHBUT)  
Head  
Chemical, Polymer and Composite Section  
Testing Services Department



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**Website** : [gaea.com.my](http://gaea.com.my)  
**Email** : [hello@gaea.com.my](mailto:hello@gaea.com.my)  
**Call** : +607 861 2730  
**Fax** : +607 863 2730

## HEADQUARTERS

No. 28, Jalan Tiram 14,  
Taman Perindustrian Tiram,  
Jalan Sungai Tiram,  
81800 Ulu Tiram,  
Johor, Malaysia.

## OFFICE ( Kuala Lumpur )

No. 2, Jalan IPP,  
Desa Aman Puri,  
47000 Sungai Buloh,  
Selangor, Malaysia.

## SHOWROOM

BMS MALL Unit A0106,  
No. 6 Jalan Kencana Emas 2/1,  
Kawasan Perindustrian Tebrau III,  
81100 Johor Bahru,  
Johor, Malaysia.

### Certificates



### Test Report



### Awards



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