

E2OEU is the product code for Magnus' pebbled finish embossed FRP panels. These panels are manufactured with technically selected raw materials primarily the reinforcement (glassfibre) and the matrix (unsaturated polyester resin). Magnus products are engineered to match different physical, chemical and mechanical properties as required by the end user. The main applications are in the building and construction industry for indoors and outdoors such as for homes, commercial places, hospitals, restrooms and kitchens

MECHANICAL PROPERTIES			
Typical values			
Properties	E2OEU - 0.12" (3.0 mm)		Test Methods
Tensile Strength	20.5 x 10 ³ psi	141 MPA	ASTM - D638
Tensile Modulus	8.2 x 10 ⁵ psi	5654 MPA	ASTM - D638
Flexural strength	22 x 10 ³ psi	151 MPA	ASTM - D790
Flexural Modulus	8.2 x 10 ⁵ psi	1227 MPA	ASTM - D790
Barcol Hardness	45	45	ASTM - D2583
Izod Impact	12.0 ft-lb/in notched	0.64 J/mm	ASTM - D256
Coefficient of linear Thermal Expansion	1.6 x 10 ⁻⁵ in/in/°F	3.0 x 10 ⁻⁵ m/m/°C	ASTM - D696

PHYSICAL PROPERTIES				
Code	Type	Nominal Thickness	Colours	Available Sizes
E2OEU	Embossed	0.12" (3.0 mm)	White	4' x 8' (1.22 m x 2.44 m)
			Grey	4' x 10' (1.22 m x 3.05 m)
			Bronze	
			Beige	4' x 12' (1.22 m x 3.66 m)
			Black	

Customized lengths, widths & colors are available on order.

PACKING DETAILS			
Code	Type	Nominal Thickness	Number of Sheets Per Pallet
E2OEU	Embossed	0.12" (3.0 mm)	100

Panel quality:

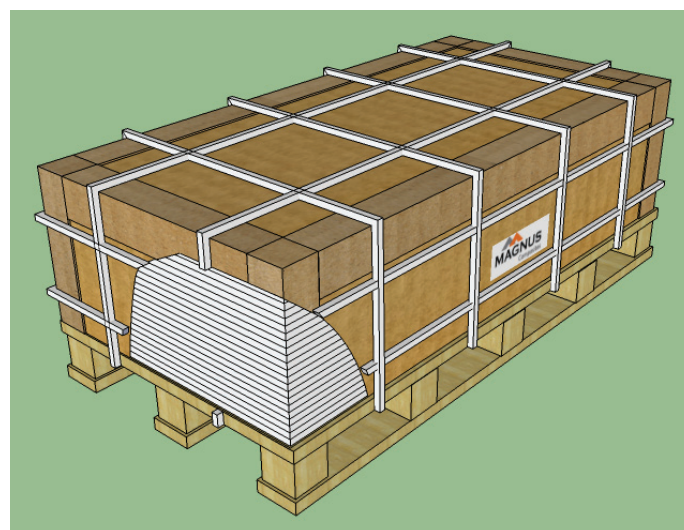
- Embossed finish is the top side of the panel while the smooth side is the backside. Any defect on the backside of the panel which do not affect functional properties are not cause for rejection.
- All panels are manufactured as per specifications given.
- Dimensions shall be within the following tolerances:
Length: ± 1/8" (3.2 mm)
Width: ± 1/8" (3.2 mm)
Diagonal: ± 1/8" (3.2 mm)
- Panels shall have uniform color through out.

Precautions:

Recommended temperature for good performance is between -31°F (-35°C) to 130°F (55°C) & beyond this range it may cause discoloring or fading of the panel.

Storage:

- All panels should be stored horizontally on a flat surface.
- All panels should be stored in a cool, dry and well ventilated area.
- All panels should be stacked on skids.



Overall Height	Width	Length	Fork Opening	Pallet Height
18.11" (460mm)	48.43" (1230mm)	96.46" (2450mm)	5.91" (150mm)	6.3" (160mm)

These are standard dimensions for 4' x 8' panels

E2ODF is the product code for Magnus' pebbled finish embossed FRP panels. These panels are manufactured with technically selected raw materials primarily the reinforcement (glassfibre) and the matrix (unsaturated polyester resin). Magnus products are engineered to match different physical, chemical and mechanical properties as required by the end user. The main applications are in the building and construction industry for indoors and outdoors such as for homes, commercial places, hospitals, restrooms and kitchens

MECHANICAL PROPERTIES			
Typical values			
Properties	E2ODF - 0.09" (2.3 mm)		Test Methods
Tensile Strength	7.6 x 10 ³ psi	52.4 MPA	ASTM - D638
Tensile Modulus	6.8 x 10 ⁵ psi	4688 MPA	ASTM - D638
Flexural strength	8.6 x 10 ³ psi	59.3 MPA	ASTM - D790
Flexural Modulus	0.87 x 10 ⁵ psi	600 MPA	ASTM - D790
Barcol Hardness	40	40	ASTM - D2583
Izod Impact	7.0 ft-lb/in notched	0.37 J/mm	ASTM - D256
Water Absorption	< 0.30 % /24hrs@77°F	< 0.30 % /24hrs@25°C	ASTM - D570
Coefficient of linear Thermal Expansion	2.0 x 10 ⁻⁵ in/in/°F	3.6 x 10 ⁻⁵ m/m/°C	ASTM - D696

PHYSICAL PROPERTIES				
Code	Type	Nominal Thickness	Colours	Available Sizes
E2ODF	Embossed	0.09" (2.3 mm)	White	4' x 8' (1.22 m x 2.44 m)
			Grey	4' x 10' (1.22 m x 3.05 m)
			Almond	
			Beige	4' x 12' (1.22 m x 3.66 m)
			Black	

Customized lengths, widths & colors are available on order.

PACKING DETAILS			
Code	Type	Nominal Thickness	Number of Sheets Per Pallet
E2ODF	Embossed	0.09" (2.3 mm)	150

Panel quality:

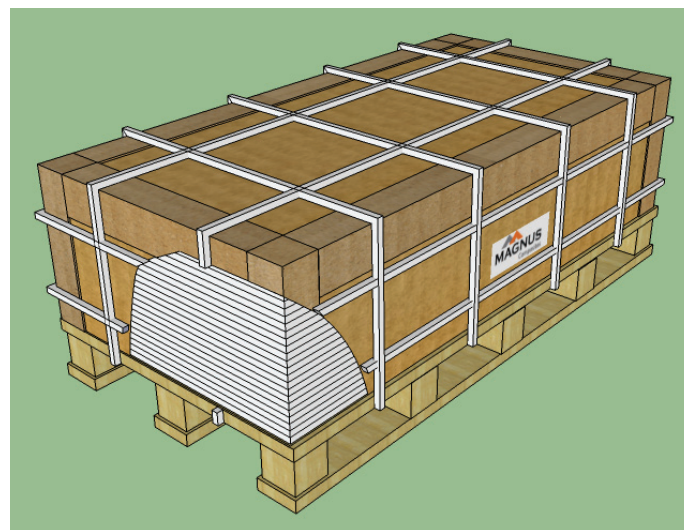
- Embossed finish is the top side of the panel while the smooth side is the backside. Any defect on the backside of the panel which do not affect functional properties are not cause for rejection.
- All panels are manufactured as per specifications given.
- Dimensions shall be within the following tolerances:
Length: ± 1/8" (3.2 mm)
Width: ± 1/8" (3.2 mm)
Diagonal: ± 1/8" (3.2 mm)
- Panels shall have uniform color through out.

Precautions:

Recommended temperature for good performance is between -31°F (-35°C) to 130°F (55°C) & beyond this range it may cause discoloring or fading of the panel.

Storage:

- All panels should be stored horizontally on a flat surface.
- All panels should be stored in a cool, dry and well ventilated area.
- All panels should be stacked on skids.



Overall Height	Width	Length	Fork Opening	Pallet Height
(19.49") 495mm	(48.43") 1230mm	(96.46") 2450mm	(5.91") 150mm	(6.3") 160mm

These are standard dimensions for 4' x 8' panels

F1OCF is the product code for Magnus' smooth finish FRP Flat Panels. These panels are manufactured with technically selected raw materials primarily the reinforcement (glassfibre) and the matrix (unsaturated polyester resin). Magnus products are engineered to match different physical, chemical and mechanical properties as required by the end user. The main applications are in the building and construction industry for indoors and outdoors such as for homes, commercial places, exhibitions, cafeteria, F&B processing plants and health clubs.

MECHANICAL PROPERTIES			
Typical values			
Properties	F1OCF -0.08" (2mm)		Test Methods
Tensile Strength	5.8 x 10 ³ psi	40 MPA	ASTM - D638
Tensile Modulus	6.4 x 10 ⁵ psi	4460 MPA	ASTM - D638
Flexural strength	14.5 x 10 ³ psi	100 MPA	ASTM - D790
Flexural Modulus	1.6 x 10 ⁵ psi	1127 MPA	ASTM - D790
Barcol Hardness	35	35	ASTM - D2583
Izod Impact	4.0 ft-lb/in notched	0.21 J/mm	ASTM - D256
Water Absorption	< 0.35 % /24hrs@77°F	< 0.35 % /24hrs@25°C	ASTM - D570
Coefficient of linear Thermal Expansion	2.0 x 10 ⁻⁵ in/in/°F	3.6 x 10 ⁻⁵ m/m/°C	ASTM - D696

PHYSICAL PROPERTIES				
Code	Type	Nominal Thickness	Colours	Available Sizes
F1OCF	Smooth finish	0.08" (2.0 mm)	White	4' x 8' (1.22 m x 2.44 m)
			Grey	4' x 10' (1.22 m x 3.05 m)
			Almond	
			Beige	4' x 12' (1.22 m x 3.66 m)
			Black	

Customized lengths, widths & colors are available on order.

PACKING DETAILS			
Code	Type	Nominal Thickness	Number of Sheets Per Pallet
F1OCF	Smooth finish	2.0 mm (0.08")	150

Panel quality:

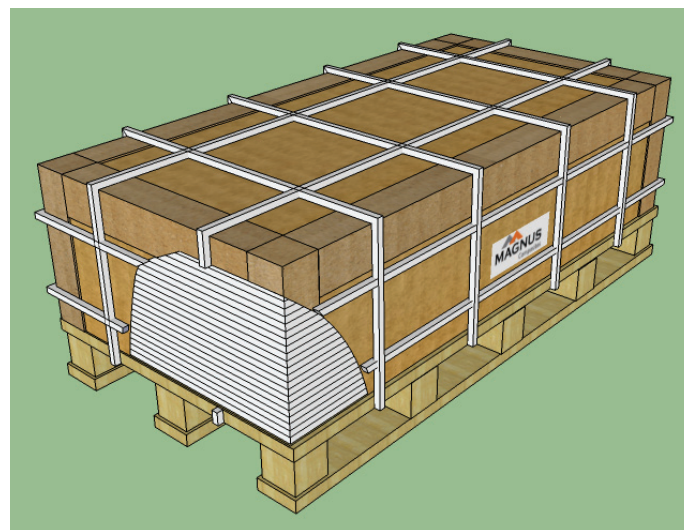
- Embossed finish is the top side of the panel while the smooth side is the backside. Any defect on the backside of the panel which do not affect functional properties are not cause for rejection.
- All panels are manufactured as per specifications given.
- Dimensions shall be within the following tolerances:
Length: ± 1/8" (3.2 mm)
Width: ± 1/8" (3.2 mm)
Diagonal: ± 1/8" (3.2 mm)
- Panels shall have uniform color through out.

Precautions:

Recommended temperature for good performance is between -31°F (-35°C) to 130°F (55°C) & beyond this range it may cause discoloring or fading of the panel.

Storage:

- All panels should be stored horizontally on a flat surface.
- All panels should be stored in a cool, dry and well ventilated area.
- All panels should be stacked on skids.



Overall Height	Width	Length	Fork Opening	Pallet Height
(19.49") 495mm	(48.43") 1230mm	(96.46") 2450mm	(5.91") 150mm	(6.3") 160mm

These are standard dimensions for 4' x 8' panels