



DURAMAX®

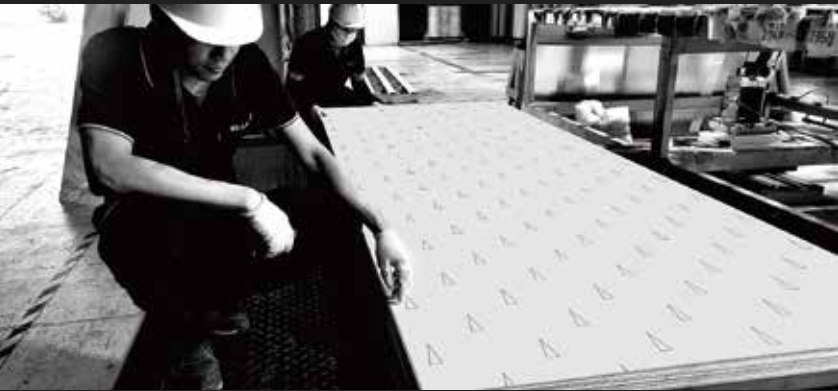
Steel/Aluminum Composite Panel with the best durability and corrosion resistance

 **NEOSTECH**®



Neotech, which has been started producing composite panels in 2001, is growing into a recognized technology company as a component and material company in an industry that requires durable and corrosion-resistant composite panels across automotive, architecture, and special industrial materials industries.

Neotech will answer your requirements as a young company that continues to strive for customer satisfaction by providing the best quality and service based on advanced mass production technology and know-how of various composite materials and panels.



NEOSTECH Quality "5 Spirit"

» DEFINE

» MEASURE

» ANALYZE

» IMPROVE

» CONTROL





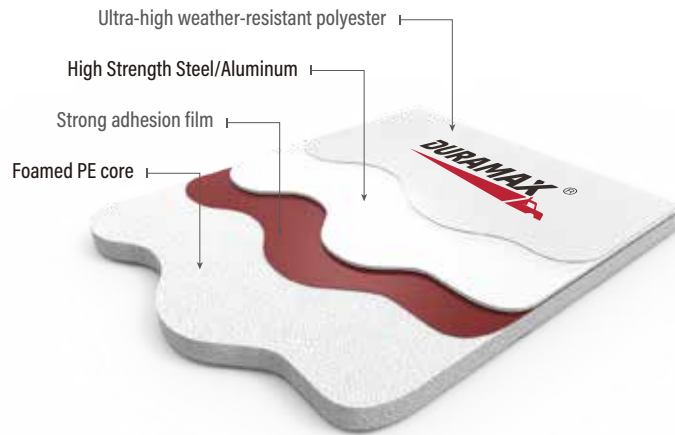
Made of high tension steel (G90) galvanized with 275g zinc, the Steel Duramax composite panel is the best corrosion resistance and durability composite panel. The Steel Duramax Composite Panel is the best steel composite panel for trailer body panels and door panels with excellent impact resistance.



The Aluduramax composite panel, made of aluminum that does not rust itself, boasts permanent corrosion resistance and specially developed high strength aluminum, which boasts excellent durability and impact resistance.

In addition, the aluminum composite panel is ideal for trailer body panels and door panels, which are groundbreaking for reducing the trailer's own load to maximize fuel efficiency.

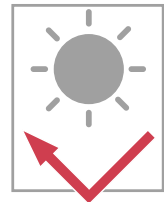




"DURAMAX" Component	Thickness	Note
Overall Thickness	2.5mm~19mm	Standard : 4mm~14mm
Front Skin Thickness	0.2mm~1.0mm	Standard : 0.3mm~0.5mm
Maximum Width	1,575mm	Standard : 1,250mm
Rear Skin Thickness	0.2mm~1.0mm	Standard : 0.3mm~0.5mm
Maximum Length	5,000mm	Recommended length : within 3,500mm
Standard Color	Polar White	Custom color available

➤ COATING (Ultra-high weather-resistant polyester)

Duramax Composite Panel has an ultra-high weather-resistant polyester coating that maintains its color for a long time with excellent weather resistance without changing or peeling in any adverse weather. It is coated in a roll-to-roll method under NEOSTECH's thorough color management, so you can always implement the same color. By default, the trailer has a polar white high-gloss color, and if you specify the color you want separately, you can implement any color and gloss.



➤ STEEL (High strength_G90, corrosion resistant steel)

Duramax Composite Panel has a steel with excellent tensile strength and yield strength by applying G90 steel, which is very shock-resistant, making it the best material for the body and doors of the trailer. It is also galvanized with 125g zinc, so it has excellent external scratch and corrosion resistance.



➤ PE CORE (Foamed Polyethylene)

The types of PE foam core are:

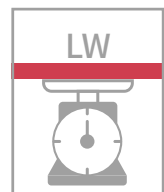
CHEMICAL FOAMING

By containing a chemical foaming agent inside PE and inflating it by applying heat, as a result, about 30~40% of the existing weight can be reduced. Neostech's stable and eco-friendly production method is applied to various products.

PHYSICAL FOAMING

It is a product produced by inserting air into PE instead of chemical foaming agent to reduce weight.

They physically foamed Duramax panel is a product born from Neostech's tenacity to improve technology, and is a lighter, 100% recyclable, eco-friendly product.

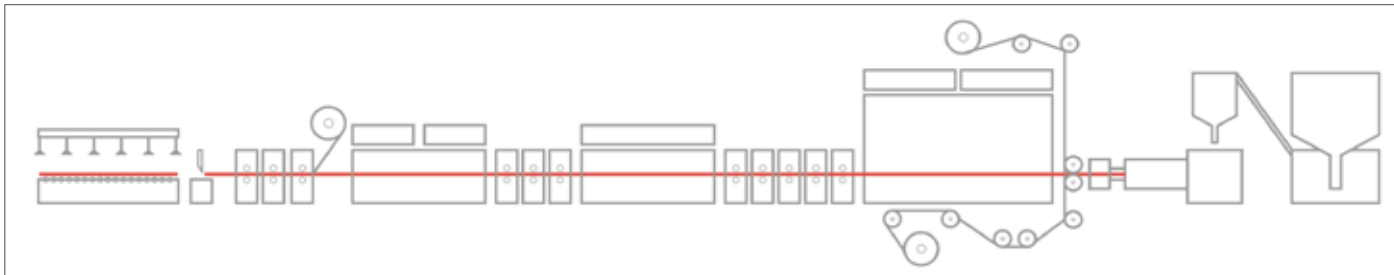




Technology

Produced through rigorous quality control by trained engineers at Neostech, Duramax composite panels will be the best choice for many industries, including transport, storage and industrial equipment that require durability and corrosion resistance.

Duramax Composite Panel is a roll-to-roll continuous production that can produce (about 3,900m²/day), cut the length that customers want (MAX 6M).



Automatic stacker | Cutting | Protect Film | Dryer | Cooling | Coil Car | T-Die | Main Extruder "Foamed PE"



Lightweight

PE-FOAM can expand by about 30%. This reduces the weight of the material in the unit volume by 30%.

It can also decrease the weight of the trailer's ocean, which also helps the trailer's fuel efficiency.

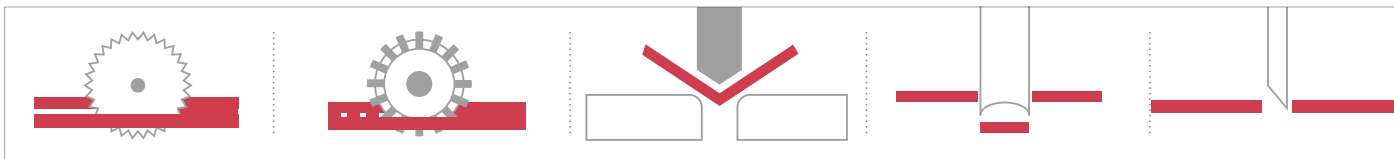
In addition, if the weight of the material in the unit volume is reduced by 30%, the thickness is also reduced by 30%, resulting in added value that increases the utilization of the internal space.



Machinability

The composite panel with the foam resin core has a dense bubbles inside the core, so it is highly machinability.

Cutting, bending, punching, drilling, round bending, and any processing are possible, making it the best composite panel for processing in the shape you want.



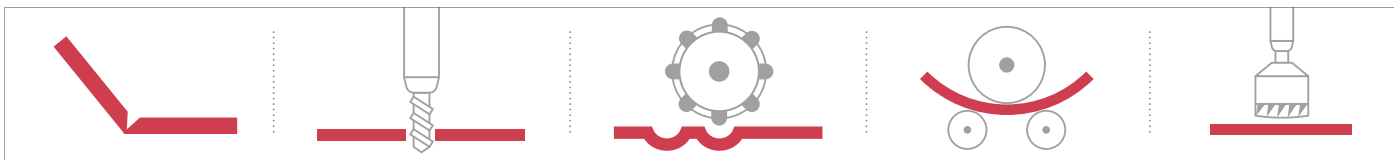
Sawing

Perforation

Bending

Punching

Shearing



Folding

Drilling

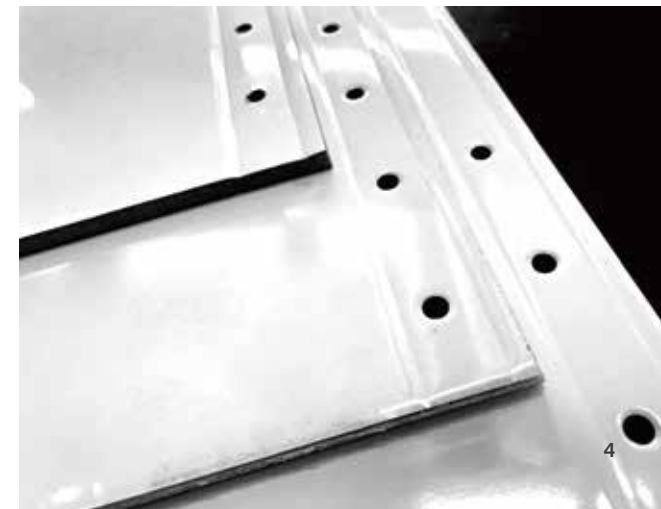
Embossed

Roll bending

Milling



DURAMAX[®]





Mechanical Properties

Overall Thickness	Top/Rear Skin Thickness	Flexural Strength	Tensile Strength	Peel-Off Strength	Penetration Resistance	Weight
6 mm	0.3 / 0.3 mm	≥ 20,000 psi	≥ 9,000 psi	7.5 N/mm	≥ 450 kg	8.4 kg/m ²
6 mm	0.4 / 0.4 mm	≥ 20,000 psi	≥ 10,000 psi	7.5 N/mm	≥ 580 kg	9.8 kg/m ²
8 mm	0.3 / 0.3 mm	≥ 14,000 psi	≥ 10,000 psi	7.5 N/mm	≥ 720 kg	9.7 kg/m ²
8 mm	0.4 / 0.4 mm	≥ 15,000 psi	≥ 13,000 psi	7.5 N/mm	≥ 750 kg	11.2 kg/m ²
12 mm	0.4 / 0.4 mm	≥ 10,000 psi	≥ 14,000 psi	7.5 N/mm	≥ 900 kg	13.3 kg/m ²
12 mm	0.5 / 0.5 mm	≥ 11,000 psi	≥ 16,500 psi	7.5 N/mm	≥ 1100 kg	14.7 kg/m ²

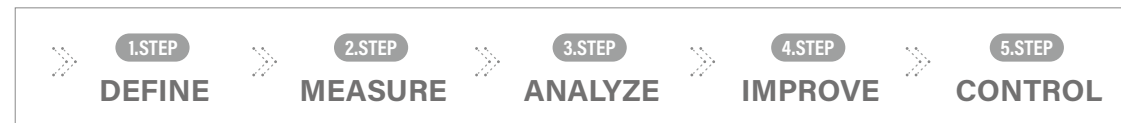
Environment Friendly

Duramax composite panel made of steel and resin can be recycled 100%. The continuous production method of Neostech ROLL-TO-ROLL minimizes waste and produces Duramax panels in a toxic-free process. In addition, the Duramax composite panel, which is 30% lighter than the existing panel, is a significant factor in increasing fuel efficiency by reducing the body weight of the trailer, which is effective in reducing carbon emissions.



High Rigidity

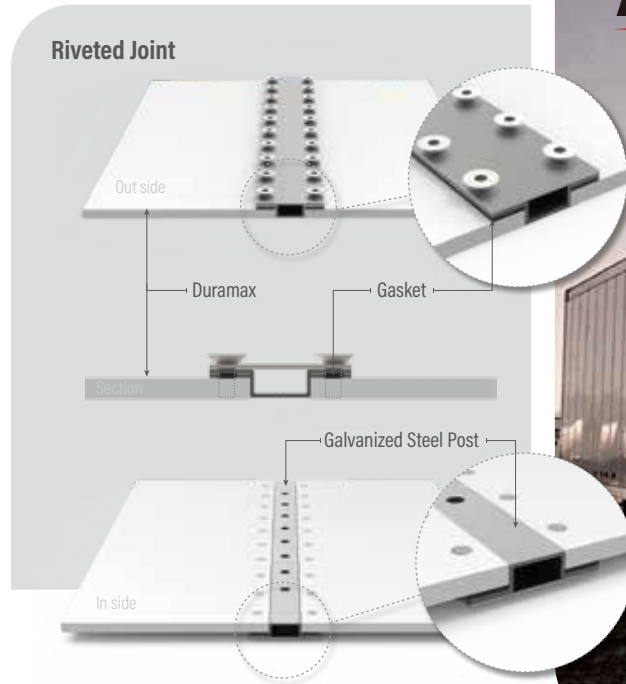
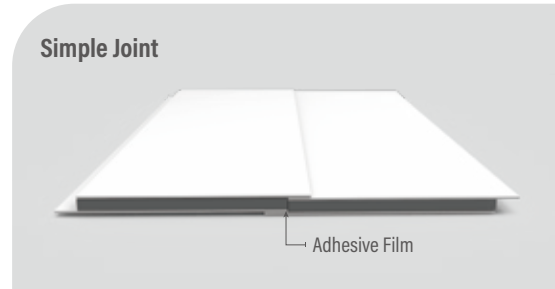
Neostech's "5 STEP" quality control system



This thorough control system enables the production of high-rigidity panels. Duramax panels are guaranteed to be the best material for your business with precise specifications and superior quality.



EASY Application & Easy Installation



Product Reliability

NO	Test items	Result	Test method
1	Bending Test	Pass	KS B 0804:2001
2	Spot Test, Open 2% Hydrofluoric acid (m/m)	No objectionable alteration in the surface, such as discoloration, change in gloss, blistering, softening, swelling, loss of adhesion, or special phenomena	ASTM D1308-20
3	Spot Test, Open 5% Phosphoric acid (m/m)	No objectionable alteration in the surface, such as discoloration, change in gloss, blistering, softening, swelling, loss of adhesion, or special phenomena	ASTM D1308-20
4	Pencil Hardness (Mitsubishi Pencil)	2H	AAMA 2605-13
5	Dry Adhesion-Loss of Adhesion	0	AAMA 2605-13
6	Wet Adhesion-Loss of Adhesion	0	AAMA 2605-13
7	Boiling Water Adhesion-Loss of Adhesion	0	AAMA 2605-13
8	Impact Resistance	No Defects	AAMA 2605-13
9	MEK Rubbing Test	No Defects	ASTM D5402-19
10	Salt Spray Test (1,000h)	No visible rust	KS D 9502:2020 [NSS]

Head Office

424, Dongtanjiseong-ro, Hwaseong-si, Gyeonggi-do, Republic of Korea

Tel : +82-31-211-2146

Fax : +82-31-211-2145

E-Mail : neotecheng@gmail.com

Factory

16-90, Seounsingi-gil, Seoun-myeon, Anseong-si, Gyeonggi-do, Republic of Korea



DURAMAX[®]

