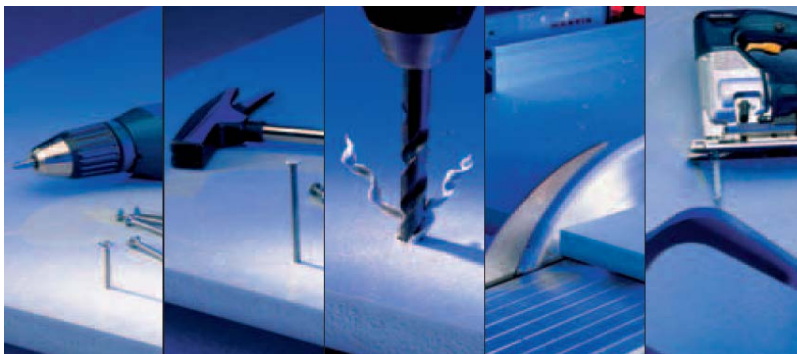


Diamond-Panel

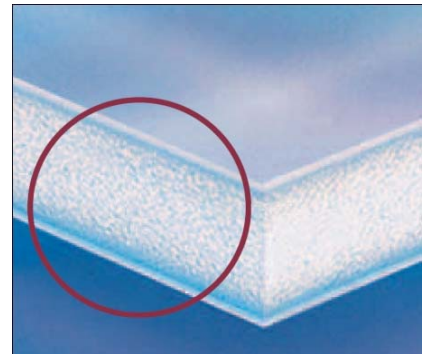
Diamond-Panels are a German product and have been developed under the influence of Diamond International Constructions to offer to the market a premium formply substitute. The usage of crystal reinforced plastics in combination with a high-pressure manufacturing process, allows Diamond-Panels to be much stronger than other plastic forming sheets made of only one component.

Thus Diamond-Panels provide the key characteristics of a premium formwork surface:

- Designed for rough handling
- High bending stiffness allow for wide span of secondary support
- Hardened surface to prevent damages and to deliver smooth concrete surfaces even after many reuses
- Long lifetime since both sides can be used identically
- Foamed core to reduce weight
- Repairable by plastic welding
- Handling as easy as plywood (nailing, cutting, screwing etc)
- No release agent necessary
- No swelling in water
- Reliable, strict manufacturing tolerances
- Custom colors for easy identification
- Working temperature suitable for all countries worldwide
- Fully Recyclable, cut-offs are not waste, but become resource
- Environmental Friendly



Screwing, Nailing, Drilling and Cutting – just like regular formply



Hardened Surface - Foamed Core



Technical Parameters

Available Thicknesses (in mm):	6	9	12	15	18	21
Density (in g / cm ³):		0.68	0.61	0.56	0.57	
Weight (in kg / m ²):		6.5	7.3	8.4	10.6	
Eff. Flex-Modulus (Mpa)		3,685	3,425	3,405	3,590	
Standard Format:	2,440 x 1,220 mm					
Skin Thickness:	1.5 mm					
Thickness Tolerance:	+/-0.2 mm					
Tolerance in Evenness:	1/1 mm/m					
Compression Strength:	>5 Mpa					
Shore Hardness:	> 70,0					
Notched Impact Strength:	1,48 KJ/ m ² at 23°C; 0.59 KJ/ m ² at -23°C					
Dielectric Strength:	>500 KV/cm					
Screw Retention:	1,300 N					
Water Absorption (after 7 days):	< 0,05 %					
UV Stabilization:	No					
Working Temperature:	-10°C to +100°C					
Heat Transfer Coefficient:	0.098 W / (mK)					
Thermal Elongation:	0.086 mm / (mK)					
Fire Prevention Classification:	B2 (DIN 4102/T2)					
Auto Ignition Temperature:	> 410°C					
Resistant against many chemicals, solvents, bases and acids						

Alternate applications for Diamond-Panels:

- Recreational and commercial vehicles; Motorboats, yachts, busses and caravans
- Sports equipment (e.g. skateboard ramps and playground houses)
- Office Furniture
- Industrial/commercial flooring and ceiling
- Packaging and signs
- Many other applications