

Focused performance

Divinycell® MatrixX



Discover what higher performance will do for you

As a world leader in sandwich composite solutions, DIAB understands its customers' constant striving to deliver the strongest, lightest and most competitive solutions. That's exactly the reason we are now introducing Divinycell® Matrix 7-7.

As a new addition to the DIAB Divinycell family, which already sets standards for the industry, Matrix 7-7 increases value for our customers by providing high performance at the lowest possible weight. Matrix 7-7 is an excellent example of the DIAB philosophy – a solution based on long-term experience and customer insight.



Matrix

Performance without compromise

DIAB is continuously expanding the product performance provided by its core materials. To achieve this we use our customer partnerships, R&D and efficient manufacturing process. Matrix 7-7 is the most evolved iteration of this concept. As a new addition to the DIAB Divinycell family, which already sets standards for the industry, the Matrix 7-7 series increases value for our customers by providing high performance at the lowest possible weight.

The benefits of high performance at lower weight are many: lower fuel consumption, higher application efficiency, decreased environmental impact and decreased lifetime cost. Each of these is essential to any company who offers applications that employ sandwich composite designs.

Get exactly what you need...

Matrix 7-7 focuses on delivering the performance required, so you can avoid over-engineering your application while ensuring that you get the highest value possible. Matrix 7-7 meets the performance and strength criteria set for marine decks by several regulatory bodies, such as DNV, qualifying it as probably the lightest foam core material available today that fulfils these standards.

...and sustainability too

Matrix 7-7 has a low environmental impact. Its raw material has a low carbon footprint compared to core materials such as PET, as well as lower energy consumption in manufacturing than other raw materials used in foam cores. Not least, the Matrix 7-7 material is also recyclable* and material waste can be used in other applications.

These facts, in combination with its unique material properties and high performance at low weight, make Matrix 7-7 a very good environmental choice.

Partner with us to improve your results

DIAB is a world-leading supplier of sandwich composite solutions and high performance core materials.

When you work with us, you partner with a company with global presence that ensures secured supply as well as local service and support. A company committed to the continuous product innovation and development that keeps both us and you in the vanguard of sandwich composite technology. Simply put, a partner who makes sure that your own performance delivers the highest possible results.

* Environmental declarations, Plastics Europe:
www.plasticseurope.org

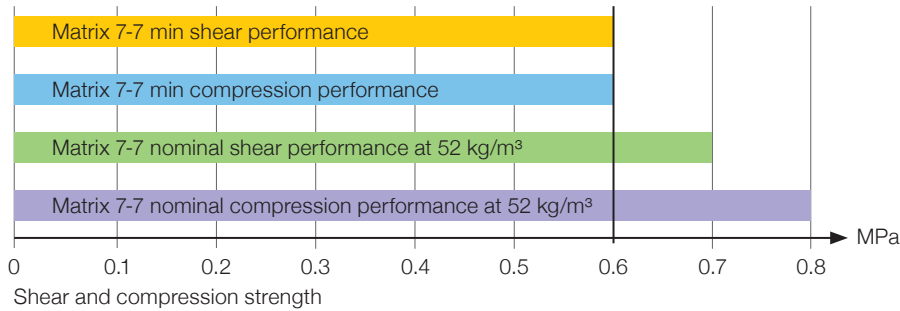


Compare us for the best results!

Matrix 7-7 delivers exceptionally good mechanical properties for its weight. Please compare Divinycell® Matrix 7-7 to other foam core materials; it will be tough to find higher performance elsewhere!



Matrix 7-7 – mechanical properties



Divinycell Matrix 7-7 applications

Marine

Matrix 7-7, with a nominal density of only 52 kg/m³, meets the minimum requirements on core materials in the most important classification societies, such as DNV (compression strength 0.6 MPa & shear strength 0.5 MPa). This enables boat designers to significantly decrease deck weight and increase competitiveness.

Wind

With its high performance, Matrix 7-7 also serves blade producers in the Wind industry. It not only increases their competitiveness, but also reduces the environmental impact of their core materials – a key product benefit for the renewable energy industry.

Naturally there will be other applications in various industries that will benefit from the high performance of Matrix 7-7.

Matrix 7-7 delivers all the benefits of DIAB's experience, finishing, kits and engineering, ensuring long design life and stable customer production process, with excellent bonding results. Our goal is to make you strong, light and competitive.

For more info on the DIAB offering see:
www.diabgroup.com

Disclaimer:

The data contained in this publication may be subject to revision and changes due to development and changes of the materials. The data is derived from tests and experience. The data is average data and should be treated as such. Calculations should be verified by actual tests. The data is furnished without liability for the company and does not constitute a warranty or representation in respect of the materials or their use. The company reserves the right to release new data in replacement.

Matrix 7-7 – minimum and nominal values

Properties	Unit	Min	Nom
Compressive Strength	MPa	0.6	0.8
Compressive Modulus	MPa	50	60
Tensile Strength	MPa	1.2	1.5
Tensile Modulus	MPa	52	65
Shear Strength	MPa	0.6	0.7
Shear Modulus	MPa	14	17
Shear Strain	%	8	14
Density	kg/m ³	47	52

The data published is preliminary, pending certification by DNV. Min values describe guaranteed minimum performance in structural design. Nominal values describe the average performance. For an official data sheet, please visit www.diabgroup.com

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