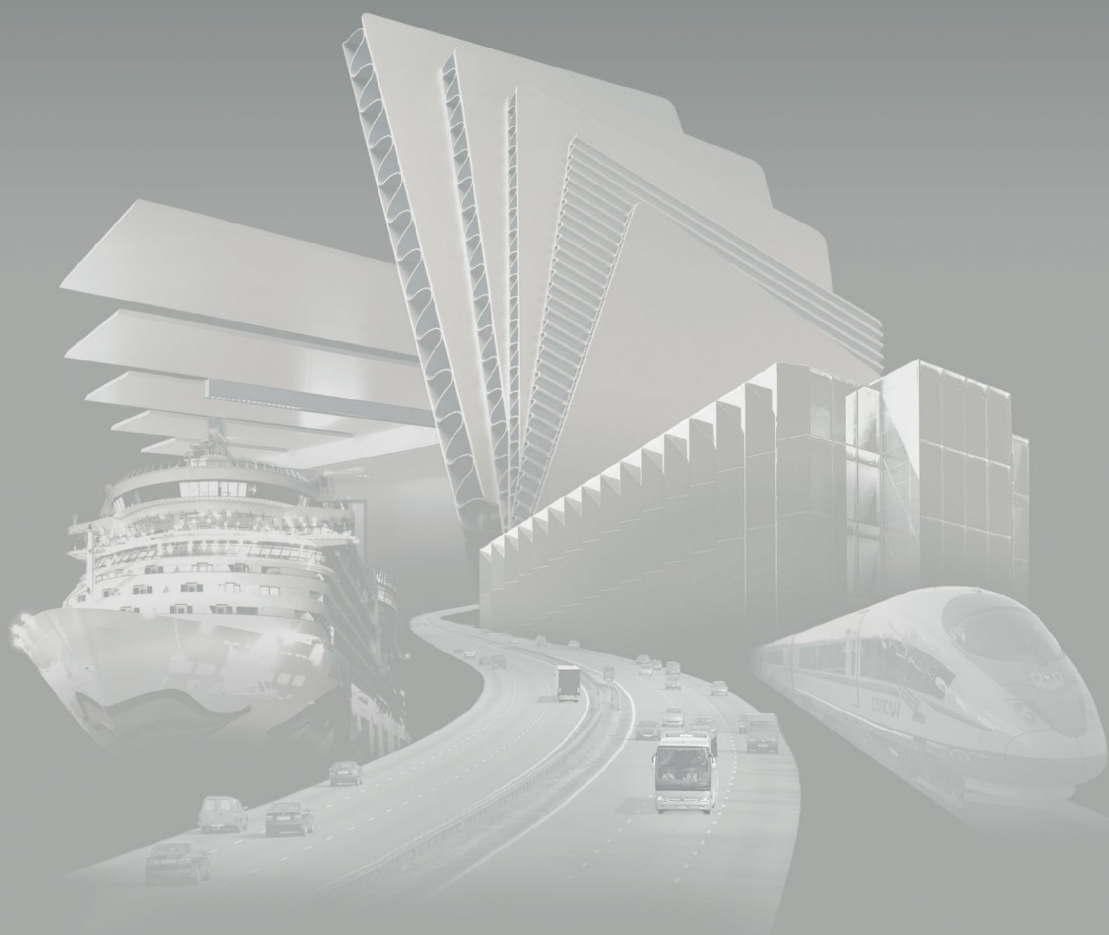
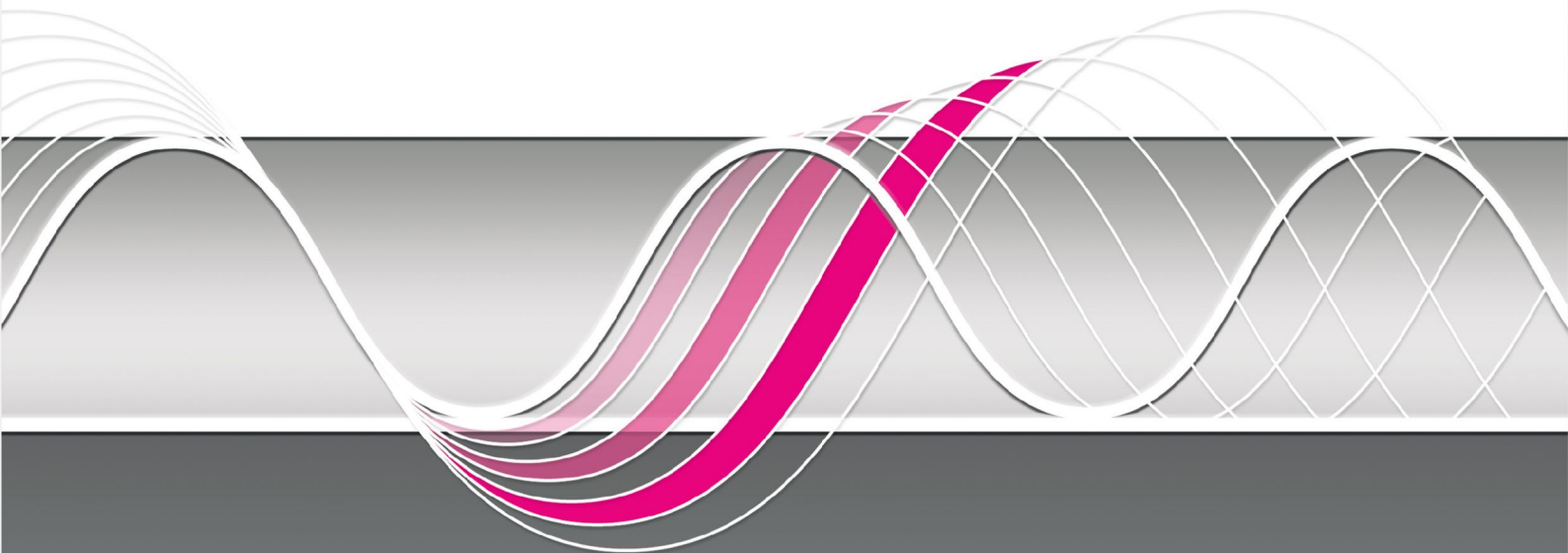
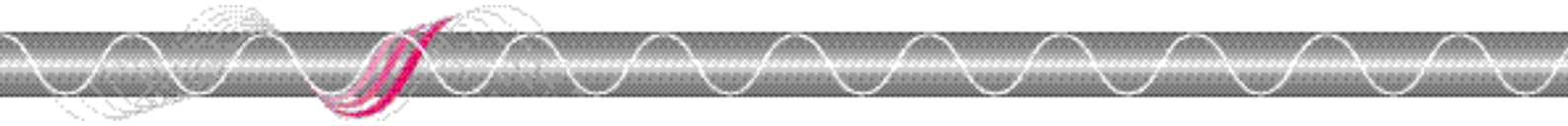


Exhibition-Preview
Hannovermesse 2012
Metawell GmbH
Hall 6 Stand B24

Metawell
metal sandwich technology





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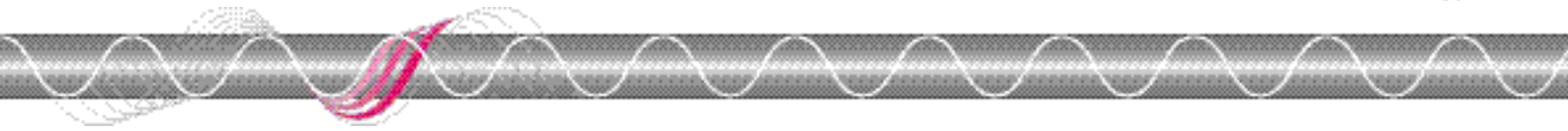
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On request we send you the press kit in digital form.

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How Metawell GmbH contributes to sustainability

The guiding topic of "Hannover-Messe" „greentelligence" is a welcome theme for Metawell GmbH the producer of aluminium lightweight panels, because of the advantages of lightweight design which are gaining more and more of importance.

Applications in **transportation** range from automotive and rail vehicles to shipbuilding. In the transportation division product advantages are obvious, as by making use of the lightweight material a weight reduction is achieved, which leads to a higher load capacity respectively to a lower fuel consumption and a reduction of CO² emissions.

Industrial applications with Metawell® are „green", because of the lighter weight of e. g. machine claddings which have a direct influence on the level of transportation fees and therefore also on less emerging CO² emissions.

In the realization of energy-efficient **building** projects, the products of Metawell GmbH are used – both as a curtain wall façade and radiant ceiling - because the material is fully recyclable without previous separation of materials.

Metawell® - perfectly suited for industrial use

The continuous reduction of material input and the required lowering of the manufactured product weight make lightweight solutions more interesting for industrial applications. The aim of this weight saving is primarily cost savings in transportation, especially when air freight is necessary. Even during the assembly of e. g. large machine claddings, costs can be saved easily, because a lightweight solution requires fewer resources.

The excellent mechanical qualities of Metawell® lightweight aluminium panels are of great importance for industrial applications. Metawell® sandwich panels show their advantages especially when basic conditions are versatile, such as moving parts of enclosures or shelving systems. Due to their low tare weight, high bending stiffness in shear resistant surfaces, the low tendency to creep and also the possible sound reduction in applications such as enclosures, machine claddings, handling systems, machine tables and elements of logistic systems, Metawell® is used more often. In addition, the product designers have nearly unlimited design opportunities, because of a wide range of processing possibilities and a variety of surfaces.

In consideration of the entire product-life-cycle it becomes clear that a one-material-solution like Metawell® is gaining of importance, because the material is without previous separation of materials fully recyclable.

System supplier of Siemens for longitudinal partition walls and compartment doors is Metawell GmbH

Beginning of 2011 the Metawell GmbH received an order for basic components for the interior fittings of the sleeping car. The longitudinal partition walls with a total length of approximately 20 meters (height about 2.50 meters) and ten compartment doors were realized with Metawell® aluminium sandwich panels.

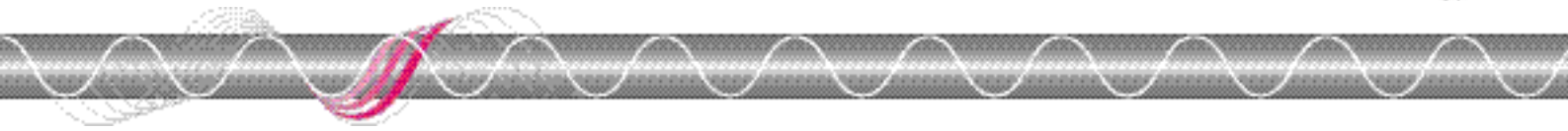
Considering that the first delivery of the until 2014 running contract was already delivered in October 2011 – this was obviously the right choice.

Due to the lightweight construction of the aluminium panels, consisting of a corrugated core and two aluminium cover sheets, the extreme tight weight requirements could be kept. This, meeting Russian and European fire protection regulations and the usage of modern and ecological products, was very important for the customer. Because of the resource-efficient material use and the full recyclability of the product, Metawell GmbH was also able to satisfy customer needs concerning sustainable solutions.

Another positive feature of the used Metawell® panel is the ability to withstand up to 200 °C without being damaged, so the panel can easily be powder-coated. For the end customer, this ensures a more harmonious surface with higher scratch resistance and detergent persistency.

With more than 20 years of experience in rail vehicle construction, especially with engineering, Metawell GmbH is a reliable partner, which was also relevant for Siemens. Metawell® has been successfully used in rail vehicle construction projects for panelling and enclosures, large format ceiling elements, heated and unheated floor systems, seat structures, tables as well as racks and access aids.

Furthermore it is worth mentioning, that Metawell GmbH assembles all components already before delivering to Siemens. Hence a ready-to-be-installed system is supplied, which leads to a significantly shortened assembly time in Vienna.



**Metawell GmbH kicks off in the façade market -
with a new product name and multifaceted surfaces and colours**

After the company Metawell GmbH has received the general technical approval by the German Institute for Building Engineering (DIBt) in February 2011, it is now time to give the product a name in dependence to the company and the application. The decision was made in favour of "Metawall".

Due to the excellent product properties of Metawall it is perfectly suited for the usage of a curtain wall façade. Properties such as extraordinary flatness, excellent rigidity and low weight make Metawall the appropriate choice as curtain wall façade. The special structure, the edge design especially developed for façades and the possibility of invisible fixing with suitable, commercially available sub-construction is all part of Metawall.

The architect has the choice between thicknesses of 10 and 15 mm and a maximum size of up to 1470 x 6000 mm. The peculiarity of the edge design is, that for the visual appearance of a 10 mm Metawall panel only 2.0 mm of solid aluminium is needed.

Moreover, even in large formats Metawall remains dimensionally stable and flat and this only with a weight of 5.7 kg/m² with a panel thickness of 10 mm. For information about weight per square meter and portion of the aluminium of the thicknesses 15 mm, minimum order quantities, delivery times, additional certificates and the current status of other approvals (such as fire classification A2) please contact the company directly at any time.

Colour your world – Searching for colourful façades which are „green“ at the same time?

Beginning of January 2012 the colour-chart "Architectural Colours" of the company Metawell GmbH appeared. In cooperation with a renowned coil supplier a selection of trendy colours and surfaces has been compiled. The company accentuates that this selection is intended to serve only as an inspiration and even customised and other designs, different gloss levels and colours according to RAL, NCS, BS and Pantone can easily be realised. Another manner of colouring, which is not possible with many other composite materials, is the powder coating capability, which is available upon request. "Green" is a curtain wall façade with Metawall by the complete recyclability without previous separation of materials.

Even inside a building with Metawell® on sustainable paths

A trend in terms of sustainable interior construction is the heating and cooling supply based on near-surface geothermal energy. The required heat is taken from the energy of the ground water and piped back afterwards. The whole circuit is created with a water heat pump. The exact control of room temperature in summer and in winter is regulated with Metawell® ceiling panels. In conjunction with mechanical ventilation, which takes over the supply of fresh air, only 50% of the room floor area have to be occupied. If the Metawell® ceiling panel is delivered perforated, it ensures also the sound absorption in the rooms. Thanks to the high stiffness different built-in components such as sprinklers, alarms or lights can be easily realized. Metawell® was successfully used in numerous projects including two construction projects in Munich, which were awarded by LEED (Leadership in Energy and Environmental Design) for the overall design with gold and platinum.

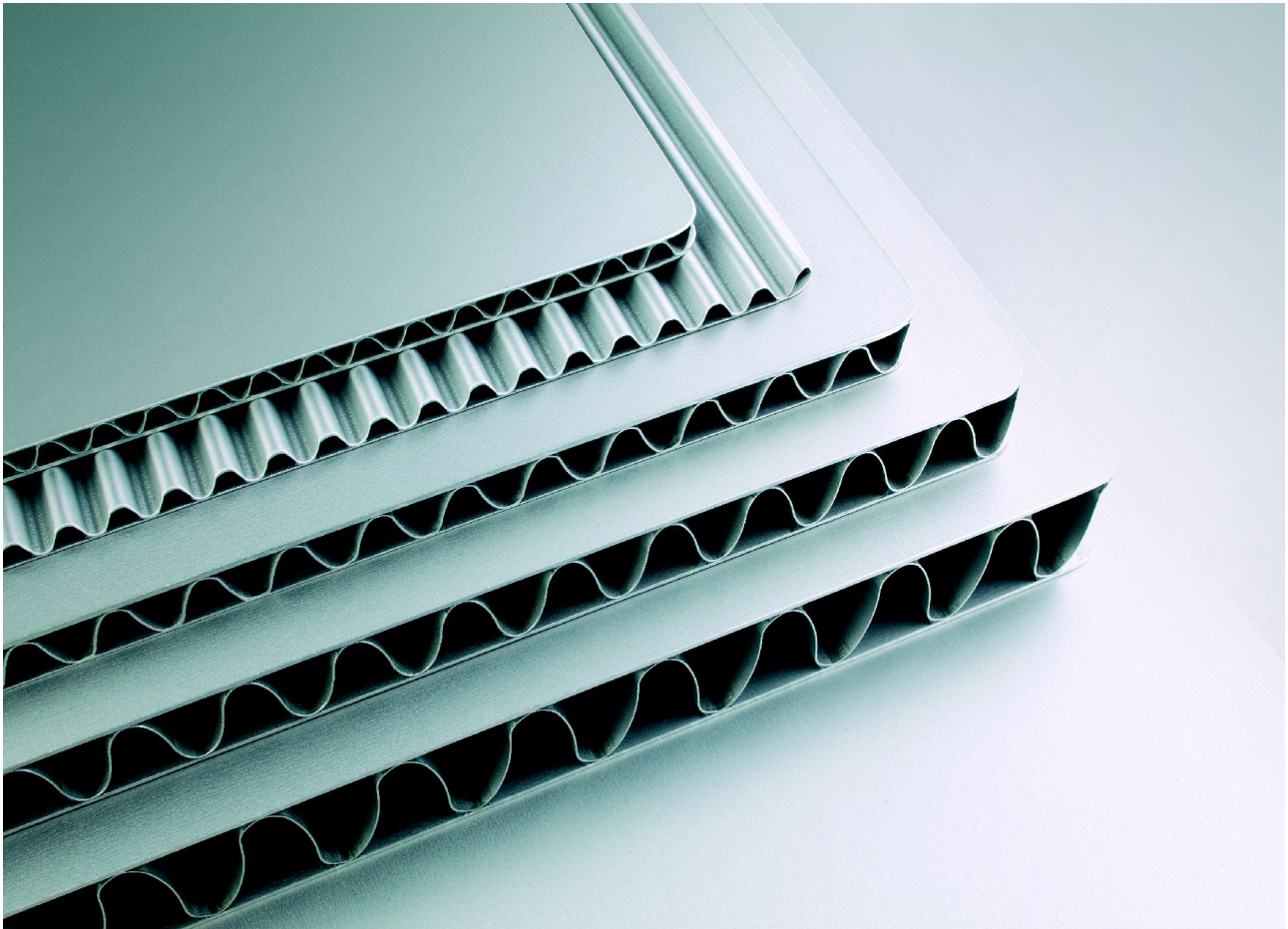
Further information about Metawell GmbH

Metawell GmbH produces and distributes worldwide, either directly or via partners, very light and rigid aluminium sandwich panels. In addition to semi-finished panels *Metawell GmbH* also supplies prefabricated elements or ready-to-be-installed components for series and individual projects. Modern machinery, a wide scope of certificates and approvals and 25 years of experience make *Metawell GmbH* a reliable partner. A highly skilled and motivated team develops and produces in close cooperation with the customer consequent and economically convincing lightweight constructional solutions for the building industry (façades, interior outfitting, radiant ceilings), in transportation engineering (automotive, shipbuilding, rail vehicle construction) and in industrial applications (e. g. machine claddings, enclosures, machine tables).

Further information about products of Metawell GmbH

Metawell GmbH produces lightweight aluminium panels with a corrugated core and one or two aluminium cover sheets. All aluminium sheets used for the fabrication are primed. Thus a durable bonding of the compound and a high corrosion resistance are ensured. The material stands out by absolutely even surface and extreme rigidity.

- *Metawell*[®] with a total thickness from 5 to 22 mm is perfectly suitable for large format elements with an attractive surface.
- *Metawell*[®] *Aluflex* is a material with rigidity levels that depend strongly on the direction of the corrugation. The corrugated sheet is bonded with only one cover sheet. This structure enables easy forming and provides a high rigidity to curved lightweight construction elements (e. g. curved ceilings).
- *MetaCore*[®] is a product especially designed for high stress loads, with a panel thickness starting from 30 mm.
- *Metawall* is a product variation of *Metawell*[®] especially developed for façade constructions with a special structure and edge design in nearly unlimited colour variety. Panels that can be powder-coated are available on request, too.

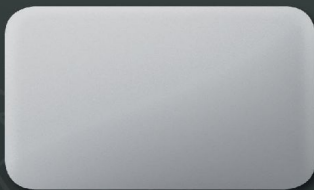


picture 1: Product choice of Metawell GmbH

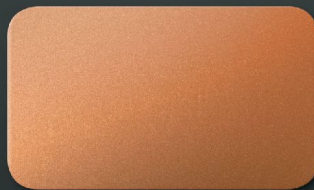
Metawall

picture 2: Logo Metawall

Look and feel



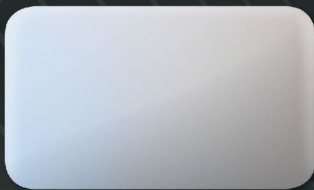
Brilliant Silver Metallic



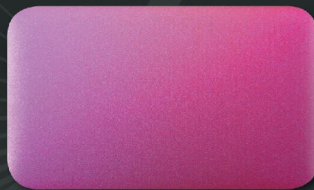
Brilliant Copper Mica



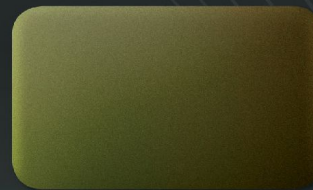
Brilliant Gold Mica



Mica Onyx White-Blue



Mica Amethyst Violet



Mica Pyrite Green-Red



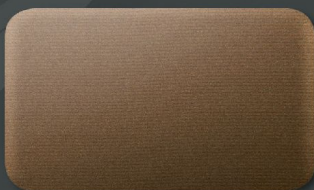
AluNatur Anodized Brushed



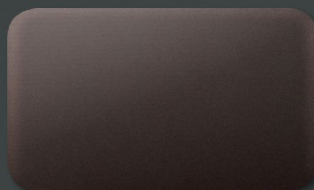
AluNatur Champagne Brushed



AluNatur Sky Blue



AnoMax Middle Bronze / ~ C33



AnoMax Dark Bronze / ~ C34



Decor matt Carbon Design



picture 3: detail of colour-chart „Architectural Colours“