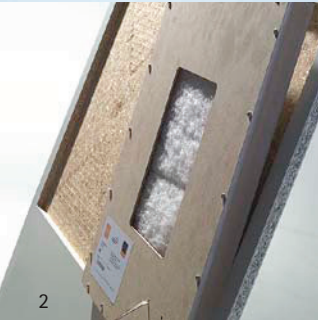
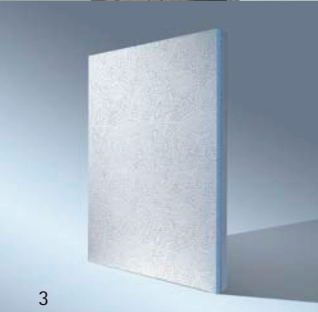




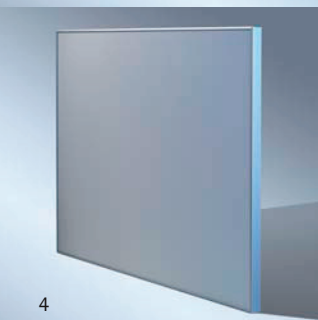
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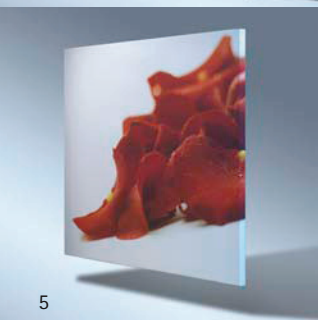
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NOVASONAR™

The concealed technology



Schematic of an installed Novasonar GK loudspeaker

1. GK module for dry construction and solid building.
2. Kit module for trade fair constructions, shop buildings and interior fixtures.
3. Ceiling module for grid ceilings.
4. Multimedia module for direct-front projections.
5. Image module for laminations and decorative designs.
6. Universal module, adjustable according to your creative ideas, for example as a design element, etc..

Simple and ready-to-connect. With an integrated ML loudspeaker network the loudspeaker can be used without any additional expensive electronics with conventional HiFi or professional amplifiers.

DESIGN OPTIONS

Novasonar flat-panel loudspeakers can be freely designed, exactly as needed by you. Size, surface and form (in a two-dimensional sense) are almost endlessly variable.

The following surface designs are available:

- Artistic designs painted directly on the surface
- Laquered surfaces
- Wallpapered surfaces
- Surfaces painted with dispersion paints, etc.
- Plastered surfaces
- Surface reconstructions
- Real wood veneer
- Laminates
- Permanently or reversibly laminated prints
- Poster laminations
- Lettering
- Self-adhesive surfaces
- Screen coatings
- Hygienic surfaces
- Metal surfaces
- And numberless other surface designs

Specify size, surface and shape of your Novasonar flat-panel loudspeaker and we will produce it according to your request.

We look forward to bringing your ideas to life.

YOUR APPLICATIONS

Novasonar sets the tone

SHOPS, HOTELS AND HOSPITALITY



Chip boards or MDF boards in a shop building or a solid wood lining in a cosy hotel lobby can be a flat-panel loudspeaker. Novasonar opens up entirely new possibilities for presentation, information and interactive communication. At a high-quality shop in Munich for example, the table top of an interactive table is fitted with Novasonar flat-panel loudspeakers. At Delmenhorst train station, the front of a multifunction terminal was designed as a Novasonar flat-panel loudspeaker and matched to the shop interior.

HOMES, ART, HOME CINEMA AND DISPLAYS



The Novasonar flat-panel loudspeaker can be installed in walls, ceilings and furniture in your home or designed directly artistically with oil or other paints as a painting. Also coming as permanently laminated digital prints, reversible laminations of ads or graphics (e.g. company logos), poster laminates, etc..

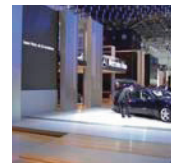
PROJECTION, CONFERENCE AND PRESENTATION TECHNOLOGY



The Novasonar flat-panel loudspeaker designed as a projection screen is provided with a washable screen surface. In the large auditorium of the Zoological Institute in Munich with space for an audience of 400, Novasonar flat-panel loudspeakers are integrated into the projection screen measuring 40 square metres. Sound for this auditorium is realised exclusively with Novasonar flat-panel loudspeakers.

DRY CONSTRUCTION AND FAIR BUILDING

Because of the troublefree installation of the Novasonar flat-panel loudspeakers it is easy for the dry constructor or carpenter to integrate them directly and smoothly into the wall or ceiling, matching it to the interior decoration, as was done at IAA Frankfurt and Geneva's Car Fair at the booth of Mercedes-Benz.



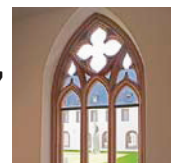
HIGH-TECH CEILINGS

Novasonar flat-panel loudspeakers can be integrated into many different commercially available grid ceilings. To accomplish this, the original boards are converted to Novasonar flat-panel loudspeakers. Using the original boards prevents colour or structural differences to the surrounding ceiling.

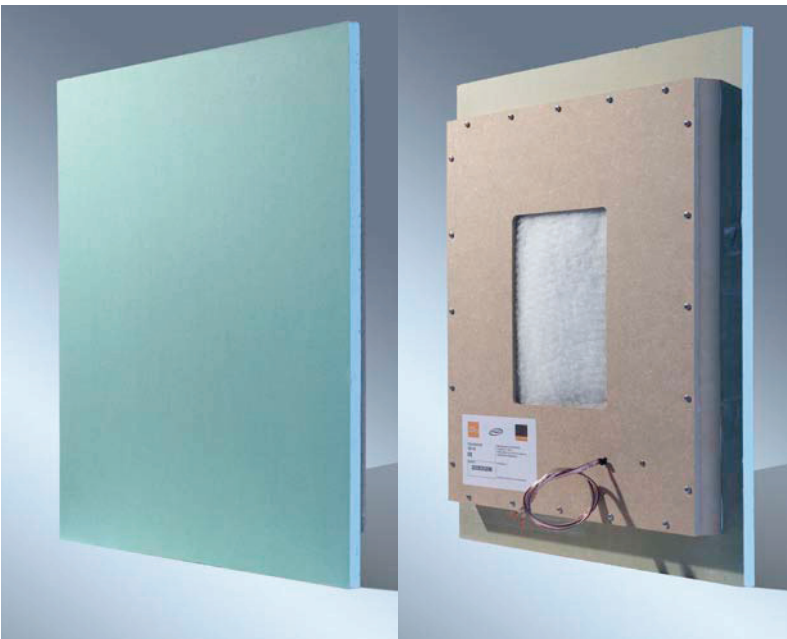


PROTECTED HISTORICAL MONUMENTS, RESTORATIONS, MUSEUMS AND CHURCHES

Because of the numberless possibilities for surface designs and its ability to remain invisible while providing maximum sound quality Novasonar opens up completely new design concepts. Thus the original character of a room under historical monument protection can be retained with the use of Novasonar flat-panel loudspeakers. The Novasonar flat-panel loudspeakers for the "Hodler-Saal" of the "New Town Hall" in Hanover for example were veneered in mahogany.



Model Novasonar GK



Additional executions, e.g. plaster fibre etc. are possible.

Easy to install in just a few minutes in dry constructions.

1. Connect the speaker cables and place the loudspeaker into the provided cut-out.
2. Attach the loudspeaker to the subconstruction.
3. Fill the gap.
4. Finished!

The Model GK is installed in a matter of minutes. The Novasonar flat-panel loudspeaker is already mounted in a conventional gypsum plasterboard. Surface, material texture and installation thickness of the Model GK do not differ from the original gypsum board.

Decisive benefits for dry-construction installation:

1. Due to the high degree of prefabrication, the Novasonar flat-panel loudspeaker can be installed and used in a matter of a few minutes.
2. By using a simple installation guide sheet the dry constructor is able to install the loudspeaker system faultlessly without prior training.
3. Plastering of the loudspeaker membrane is not required.
4. There is no danger of cracks around the edges because there are no different materials used.
5. No additional installation frame is required.
6. Since the membrane does not have to be plastered, the sound quality of the loudspeaker can no longer be influenced by incorrect installation, e.g. plaster that is applied too thickly or not evenly, or incorrect levelling. Especially with light wall coverings, such as wallpaper, paint, etc., this characteristic makes it possible to operate an installed Novasonar flat-panel loudspeaker with integrated ML loudspeaker network on a conventional HiFi amplifier with excellent sound quality without additional expensive electronics being necessary.
7. The loudspeaker can also effortlessly be installed in a gypsum board construction subsequently.

