SOLOPANEL

ACOUSTICAL CEILING PANELS

Continuous perforations to the edge offering a fluid, monolithic look. A choice of seamless or discreet joints. Acoustic gypsum lining for ceiling surfaces.

DID YOU KNOW THAT...

Knauf Danoline product range includes a hygiene ceiling that is clean room certified and can be used in laboratories and other premises with high infection control requirements?
ACOUSTICAL CEILING PANELS

SOLOPANEL

SURFACE
Untreated

DANISH INDOOR CLIMATE LABELLING (DIM)
Indoor value: 10 days
Particle emission: low (< 0.75 mg)

CLEANING
Dust is removed using a dry duster or vacuum cleaner. Removal of marks depends on the paint used on site, although a damp cloth using normal cleaning practices and neutral cleaning solutions is normally suitable for minor marks. In the case of stubborn marks or if in doubt refer to the paint manufacturer’s recommendations.

LIGHT REFLECTION
Depends on the paint used on site.

AMBIENT CONDITIONS
The product is designed to perform under normal conditions of use. Tested at 90% RH and 30°C. The product can withstand ambient temperatures of up to 50°C.

LOAD-BEARING CAPACITY
2 / A / No load
2 / B / 30N

FIRE CLASS
A2-s1,d0

ROBUSTNESS
Made of robust, glass fibre reinforced material with excellent pressure resistance and can therefore be used on walls as well as ceilings. Under normal conditions of use, the product properties are preserved and there is no decomposition of material over time.

WEIGHT
Indicative tile weight: 8.30 – 9.00 kg/m².
All according to type of perforation and thickness.

CERTIFICATES
- Declaration of Conformity (EN 14190)
- Danish Indoor Climate Labelling
ACOUSTICAL CEILING PANELS

SOLOPANEL

ACOUSTICS

EDGES

Edge SK
No visible joints

Edge MF
Discreet joint

Edge UFF
No visible joints

For acoustic data on alternative constructions please see “Absorption Data” at knaufdanoline.com
## PERFORATION

<table>
<thead>
<tr>
<th>PERFORATION TYPE</th>
<th>PERFORATION PERCENTAGE</th>
<th>SK (MM)</th>
<th>UFF (MM)</th>
<th>MF (MM)</th>
<th>SIZES* (MM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G6/18</td>
<td>8.7 %</td>
<td>1188 x 1998</td>
<td>900/1188 x 1998</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>G8/18</td>
<td>15.5 %</td>
<td>1188 x 1998</td>
<td>900/1188 x 1998</td>
<td>1188 x 1998</td>
<td></td>
</tr>
<tr>
<td>G10/23</td>
<td>14.8 %</td>
<td>1196 x 2001</td>
<td>1196 x 2001</td>
<td>1196 x 2001</td>
<td></td>
</tr>
<tr>
<td>G12/25</td>
<td>18.1 %</td>
<td>1200 x 2000</td>
<td>1200 x 2000</td>
<td>1200 x 2000</td>
<td></td>
</tr>
<tr>
<td>G15/30</td>
<td>19.6 %</td>
<td>1200 x 1980</td>
<td>1200 x 1980</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Q8/18</td>
<td>19.8 %</td>
<td>1188 x 1998</td>
<td>1188 x 1998</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>G8/12/50</td>
<td>13.1 %</td>
<td>1200 x 2000</td>
<td>1200 x 2000</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>G12/20/66</td>
<td>19.6 %</td>
<td>1188 x 1980</td>
<td>1188 x 1980</td>
<td>1188 x 1980</td>
<td></td>
</tr>
</tbody>
</table>

* Exact panel sizes vary from module sizes according to edge type.
**BEST PRACTICE:**
Handling the panels with care will avoid damage and surface contamination prior to painting and thereby ensure a good end result.

**HANGERS**
- Secure the upper part to the construction above it at 900 mm c/c. Choose the fixings in accordance with the substrate.
- Secure the lower part to the primary profile.

**CEILING LAYOUT**
- Divide the ceiling surface from the centre of the room or in accordance with the existing ceiling plans.
- Please note that expansion joints must be established on extensive ceiling surfaces at max. intervals of 15 metres in both directions. See detailed drawings on knaufdanoline.com.
- Where conditions indicate an increased risk of movement in a building, this must be taken into account by reducing the distance between expansion joints.

**INSTALLING THE WALL PROFILE**
- Mark out.
- Install the wall profile UD 28/27. Choose the method of fixing in accordance with the substrate.

**PRIMARY PROFILES**
- Connect the two parts of the hangers with two split pins, one immediately above the other.
INSTALLATION GUIDE

JOINING CD-PROFILES
- Join the CD profiles with the help of length connectors.

PREPARING PANELS
- Break all edges with fine sandpaper on the front so that the cardboard cannot rise during painting.
- Brush the edges free from gypsum dust and prime them with Knauf Tiefengrund (universal primer).

SECONDARY PROFILES
- Place a cross fitting on the primary profile.
- Press the underlying secondary profile into it.
- Adjust the locations of the secondary profiles and lock the cross fitting.
- See distances in figure 1.

INSTALLATION SEQUENCE
- Always wear cotton gloves when handling panels.
- Begin installation in the centre of the room.
- The longitudinal direction of the panels must be 90° to the furring. Be certain that all short ends of the panels are fully supported.

INSTALLATION
- Use a string or a laser to ensure that the perforation rows are flush. Note: The panels must all face in the same direction (SK/UFF: red mark against blue mark).
- Make sure that the screws are countersunk without damaging the cardboard surface.

POSITIONING
- SK panels are supplied undersized, and must be installed at distances of 2-5 mm from each other to ensure that it is possible to insert filler all the way up between the edges.
- Ensure the correct distance between perforation rows at the joints. The perforation rows have to align crosswise and diagonally. See distances in previous illustration.
INSTALLATION GUIDE

FILLING

- Check that the screws are undersunk and that the panels are not pushed close together.
- Check that the edges have been primed and are free from dust.
- Use Knauf Uniflott for filling.
- To avoid filler in the perforation holes a marking paper can be used. Use a sensitive type and test beforehand that it does not damage the surface of the panels when removed.

PREPARING KNAUF UNIFLOTT FILTER

- Prepare the filler according to the instructions on the filling package.
- Fill the tube with joint filler with the help of a putty knife.
- Attach the jointing nozzle.
- Insert the tube and nozzle into a jointing gun.

CUTTING

- Cut the elements to size from the front with a fine-toothed saw.
- Prime the edges with Knauf Tiefengrund (universal primer).

SK/UFF/MF

SK/UFF

SK/UFF

SK/UFF

1
2
3

= first filling
= extra material removed
= second filling

Knauf Danoline Acoustical Ceiling Panels
INSTALLATION GUIDE

FILLING SCREW HOLES
- Apply the filler (Knauf Uniflott Finish). Overfill slightly. We recommend the use of Knauf Danogips „Acoustic filling knife for holes” in order to avoid filler getting into the perforation holes.
- Allow the filler to dry.

PAINTING
- Make sure that the filler is completely dry and the surface is smooth and free from dust.
- Priming should be carried out in accordance with the paint manufacturer’s instructions.
- Apply the paint with a roller so that the acoustic felt on the perforated panels is not sealed. Use a fine mohair roller.
- Make sure that the paint is not too thick and avoid applying too much paint at a time.

SANDING
- Make sure that the filler is completely dry.
- Sand with fine sandpaper until the surface is completely smooth. Be careful not to damage the cardboard surface.
SOLOPANEL ON CD 2 SYSTEM

SOLOPANEL - EXPANSION JOINT
## ACCESSORIES

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
<th>SAP NO.</th>
<th>W x L x H (mm)</th>
<th>Consumption per m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary / secondary CD 60/27-profile</td>
<td>3294</td>
<td>60 x 4000 x 27</td>
<td>4.6 m</td>
</tr>
<tr>
<td>Wall angle UD 28/27</td>
<td>181589</td>
<td>28 x 3000 x 27</td>
<td>1.0*</td>
</tr>
<tr>
<td>Length connector CD 60/27</td>
<td>181080</td>
<td>59 x 80 x 28</td>
<td>1.1 pcs.</td>
</tr>
<tr>
<td>Cross-fitting</td>
<td>3446</td>
<td>-</td>
<td>3.3 pcs.</td>
</tr>
<tr>
<td>Split pin for hanger</td>
<td>198907</td>
<td>-</td>
<td>2.6 pcs.</td>
</tr>
<tr>
<td>Nonius hanger lower</td>
<td>198904</td>
<td>-</td>
<td>1.3 pcs.</td>
</tr>
<tr>
<td>Nonius hanger, upper 85 mm</td>
<td>198905</td>
<td>125 - 185</td>
<td>1.3 pcs.</td>
</tr>
<tr>
<td>Nonius hanger, upper 135 mm</td>
<td>198906</td>
<td>135 - 235</td>
<td></td>
</tr>
<tr>
<td>Nonius hanger, upper 235 mm</td>
<td>198923</td>
<td>235 - 340</td>
<td></td>
</tr>
<tr>
<td>Nonius hanger, upper 340 mm</td>
<td>198924</td>
<td>340 - 440</td>
<td></td>
</tr>
<tr>
<td>Nonius hanger, upper 440 mm</td>
<td>198925</td>
<td>440 - 540</td>
<td></td>
</tr>
<tr>
<td>Nonius hanger, upper 540 mm</td>
<td>198926</td>
<td>540 - 640</td>
<td></td>
</tr>
<tr>
<td>Nonius hanger, upper 640 mm</td>
<td>198927</td>
<td>640 - 740</td>
<td></td>
</tr>
<tr>
<td>Nonius hanger, upper 740 mm</td>
<td>198928</td>
<td>740 - 840</td>
<td></td>
</tr>
<tr>
<td>Nonius hanger, upper 840 mm</td>
<td>198929</td>
<td>840 - 940</td>
<td></td>
</tr>
<tr>
<td>Nonius hanger, upper 940 mm</td>
<td>198930</td>
<td>940 - 1040</td>
<td></td>
</tr>
<tr>
<td>Knauf Tiefengrund (Universal Primer)</td>
<td>253759</td>
<td>5 L</td>
<td>0.02 L</td>
</tr>
<tr>
<td>Uniflott Finish</td>
<td>129801</td>
<td>8 kg</td>
<td>0.1 kg</td>
</tr>
<tr>
<td>Knauf Uniflott</td>
<td>253631</td>
<td>25 kg</td>
<td>0.4 kg</td>
</tr>
<tr>
<td>Knauf Uniflott</td>
<td>253630</td>
<td>5 kg</td>
<td></td>
</tr>
<tr>
<td>Filler tube set</td>
<td>4707</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Filling knife</td>
<td>73962</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Screws SN 3.5x30</td>
<td>3503</td>
<td>3.5 x 30</td>
<td>20 pcs.</td>
</tr>
</tbody>
</table>

*Depending on room size.
Knauf Danoline’s Guarantee of Quality
At Knauf Danoline we are proud of our ability to consistently supply high quality, gypsum-based, acoustic solutions for the benefit and comfort of our customers and end-users.

At Knauf Danoline we consistently deliver what we promise.

- Products manufactured to the highest international quality standards and guaranteed free of manufacturing defects for 5 years.
- Products and systems that can withstand the most stringent of global fire, acoustic and structural tests. Fire protection and acoustic performance guaranteed for 30 years.
- Solutions that provide design, indoor climate and sustainability value.
- High quality service and technical support guaranteeing up-to-date advice and help whatever your needs.
- Equal service to everyone.
- A fast response to the requests of all customers

Knauf Danoline has been in the construction industry for over 50 years and thanks to our know-how and affiliation with the Knauf group, we have the knowledge and capacity that secures flexibility in our production, insight in the building market requirements, and the basis for further development.

Knauf Danoline is committed to a constant future proofing of its product range and through annual product reviews and product optimisation projects in R&D, Knauf Danoline provides adaptable solutions that match the different demands from the market, whilst retaining their intrinsic ability to last a lifetime. In this way Knauf Danoline can consistently deliver:

- Easy to clean solutions that maintain their acoustic and indoor climate properties for their entire service life, even after repainting time and time again.
- Sustainable gypsum solutions that can last the lifetime of the building.
- Classic, timeless designs that maintain their aesthetical quality throughout their entire service life.

Maintaining a high level of quality service to our customers and other stakeholders is essential to our success and our ability to deliver what we promise. Therefore we educate our employees to have insight in markets and the skills and competencies required to ensure that they understand the needs and desires of all our customers. Only in this way can we be sure that we are able to consistently deliver what we promise.
PROPERTIES

UPKEEP & MAINTENANCE

Best Practice: Use of clean cotton gloves when handling painted and foil-covered product elements will ensure a good result and a ceiling without fingermarks.

<table>
<thead>
<tr>
<th>PRODUCT CATEGORY</th>
<th>DEMOUNTABLE T-GRID CEILINGS</th>
<th>SELF-SUPPORTING CEILINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRODUCTS</td>
<td>VISONA, CONTUR, BELGRAVIA, MARKANT, PLAZA</td>
<td>CORRIDOR 400, CORRIDOR SWING</td>
</tr>
<tr>
<td>SURFACE</td>
<td>White painted</td>
<td>White painted</td>
</tr>
</tbody>
</table>
| UPKEEP            | Designed for use under normal conditions, i.e. up to 70% RH and 25°C, e.g. in offices, institutions and similar premises. Special purpose, anticorrosion treated suspension systems should be used in areas of very high humidity. | Designed for use under normal conditions, i.e. up to 70% RH and 25°C, e.g. in offices, institutions and similar premises. |}
| CLEANING          | Dust is removed using a dry duster or vacuum cleaner. Marks can be removed with a damp cloth using normal cleaning practices and neutral cleaning solutions. Stubborn marks and minor damages should be wiped clean prior to repainting. | Dust is removed using a dry duster or vacuum cleaner. Marks can be removed with a damp cloth using a mild detergent if necessary. |
| REPAIR            | More visible damages and scratches on the surface can be repaired using filler and finishing with sandpaper prior to repainting. | Damages and scratches are difficult to repair and therefore it is recommended to replace damaged tiles with new. |
| LAMP SUSPENSION   | DANOTILE: For sizes up to 625x625 mm and min. thickness 9mm, units of up to 3kg can be installed directly into the panel without reinforcement. For larger module sizes and all sizes in 6mm thickness, a reinforcement panel of sufficient strength can be installed behind the element. The reinforcement panel must extend all the way into the main runners, so that the weight is transferred to them. The total weight should not be greater than 3kg for each m² of ceiling. Where loads are greater than 3kg/m², additional hangers must be used. Units over 3kg, should be installed independently, so that they do not place any load on the ceiling. | CORRIDOR 400: Units weighing up to 3kg can be installed directly into the panel without reinforcement. N.B. The maximum cut-out, when installing in the centre of the panel is Ø265mm / 265x265 mm. Units over 3kg, should be supported independently, so that they do not place any load on the ceiling. |
|                   | BELGRAVIA, MARKANT, PLAZA, MEDLEY: For sizes up to 625x625 mm not in Tangent perforation, units of up to 3kg can be installed directly into the panel without reinforcement. For larger module sizes and all sizes with Tangent perforation a reinforcement panel of sufficient strength can be installed behind the element. The reinforcement panel must extend all the way into the main runners, so that the weight is transferred to them. The total weight should not be greater than 3kg for each m² of ceiling. Where loads are greater than 3kg/m², additional hangers must be used Units over 3kg, should be installed independently, so that they do not place any load on the ceiling. | CORRIDOR SWING: The ceiling tile may not bear additional weight from other installations. |
UPKEEP & MAINTENANCE

Best Practice: Use of clean cotton gloves when handling painted and foil-covered product elements will ensure a good result and a ceiling without fingermarks. Handling the untreated panels with care will avoid damage and surface contamination prior to painting and thereby ensure a good end result.

### PRODUCT CATEGORY
#### NON-DEMOUNTABLE CEILINGS AND WALL LININGS

**PRODUCTS**
- DANOPANEL
- DESIGNPANEL, TECTOPANEL, SOLOPANEL, STRATOPANEL
- CONTRAPANEL, ADIT
- KINOPANEL, AMFIPANEL

**SURFACE**
- White painted
- Untreated
- Foil finish
- Black painted

**UPKEEP**
- Designed for use under normal conditions, i.e. up to 70% RH and 25°C, e.g. in offices, institutions and similar premises.

**DESIGNPANEL, TECTOPANEL**
The panels have also been tested at 90% RH at 30°C and can be used under more extreme conditions such as kitchens, laboratories and rooms with frequent and major changes in the temperature and air humidity. In areas of high humidity consideration should be given to anticorrosion suspension systems and durable/washable surface finishes.

**CONTRAPANEL, ADIT**
- Designed for use in sports halls and similar areas where conditions do not normally exceed 70% RH and 25°C.
- ADIT: The panels are custom made and designed for use under normal conditions, i.e. 70% and 25°C, e.g. in offices, institutions and similar premises unless otherwise advised.

**CLEANING**
- Dust is removed using a dry duster or vacuum cleaner. Removal of marks depends on the paint used on site, although a damp cloth using normal cleaning practices and neutral cleaning solutions is normally suitable for minor marks. In the case of stubborn marks or if in doubt refer to the paint manufacturer’s recommendations.

**CONTRAPANEL**
- Dust is removed using a dry duster or vacuum cleaner. Marks can be removed with a damp cloth using normal cleaning practices and neutral cleaning solutions. On non-perforated tiles stronger cleaning agents may be used where necessary to remove stubborn marks or where cleaning regimes require it.

**REPAIR**
- More visible damages and scratches on the surface can be repaired using filler and finishing with sandpaper prior to repainting. When painting use Knauf Danoline repair paint or similar (as NCS 0700 or closest RAL colour 9003) and apply by paint roller. In case of surfaces painted with Medifend, make sure to use Medifend paint when repainting. Spray painting is not recommended on perforated products, as there is a risk of the spray paint being applied to the acoustic felt backing thereby altering the acoustic properties.

**CONTRAPANEL**
- Light objects up to a maximum of 3 kg can be suspended using appropriate fixings. Items over 3 kg must be suspended from the furring system which must be able to bear the full weight.

**LAMP SUSPENSION**
- The tile may not bear additional weight from other installations. Light objects up to a maximum of 3 kg/m² may be installed where they can be suspended from the furring system which must be able to bear the full weight.

**Knauf Danoline Properties 237**
Prior to installation, Knauf Danoline ceiling and wall lining products must be stored clean and dry, between 0°C and 50°C, and with a relative humidity not exceeding 70% RH, and not subject to any abnormal conditions.

TRANSPORTATION
It is recommended when transporting and storing Knauf Danoline products that they must be:

• positioned on a level base
• stored indoors
• protected from direct moisture
• protected from impact and shock
• opened carefully without damaging the products
• stored at humidities of less than 70% RH
• stored at temperatures of less than 50°C

When transporting Knauf Danoline products, it is recommended not to stack more than 2 pallets on top of each other.

STORAGE
When storing Knauf Danoline products, it is recommended not to stack more than 3 pallets on top of each other.