

DID YOU KNOW THAT ...

thanks to their robustness, perforated gypsum boards can be fully integrated with the wall construction, thereby creating a uniform wall surface with acoustic performance?



CONTRAPANEL

NON-DEMOUNTABLE CEILING

Acoustical performance and impact resistance in one solution. Acoustic ceiling lining with a distinct unified look. Tested in accordance with DIN 18 032 (EN 13 964) - the toughest requirements for impact resistance. Foil-covered surface – easy to clean.

Designpanel
Tectopanel
Contrapanel
Danopanel
Solopanel
Stratopanel



CONTRAPANEL

NON-DEMOUNTABLE CEILING

SIZES

600 x 1200 x 12.5 mm
600 x 1800 x 12.5 mm
600 x 2400 x 12.5 mm

SURFACE

Foil-covered with pre-impregnated white paper
Gloss 10
Tested for chemical resistance in accordance with
DIN 68 861, FIRA BS 3962 and NEMA LD-3-1991

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. Marks can be removed with a damp cloth using normal cleaning practices and neutral cleaning solutions.

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.

LIGHT REFLECTION

Globe: 74.1%
Regula: 86.3%

LOAD-BEARING CAPACITY

1 / B / No load
2 / B / 30N

FIRE CLASS

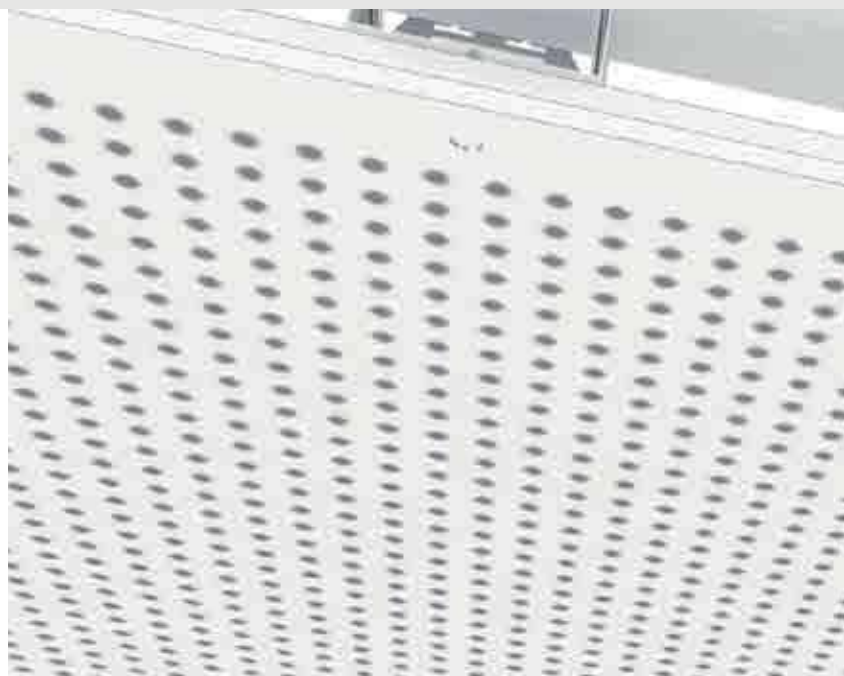
B-s1,d0

FIRE RATING

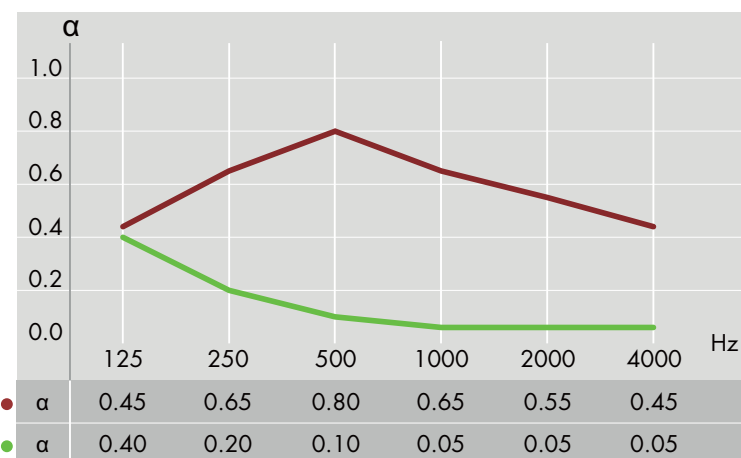
Can be used in a BD 30 construction
Class 1; K₁ 10, B-s1,d0

ROBUSTNESS

Durable and dirt resistant surface. Product 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.



ACOUSTICS



- Globe, 200 mm suspension, no mineral wool aw: 0.60, NRC: 0.65
- Regula, 200 mm suspension, no mineral wool aw: 0.10, NRC: 0.05

For acoustic data on alternative constructions please see "Absorption Data" at knaufdanoline.com

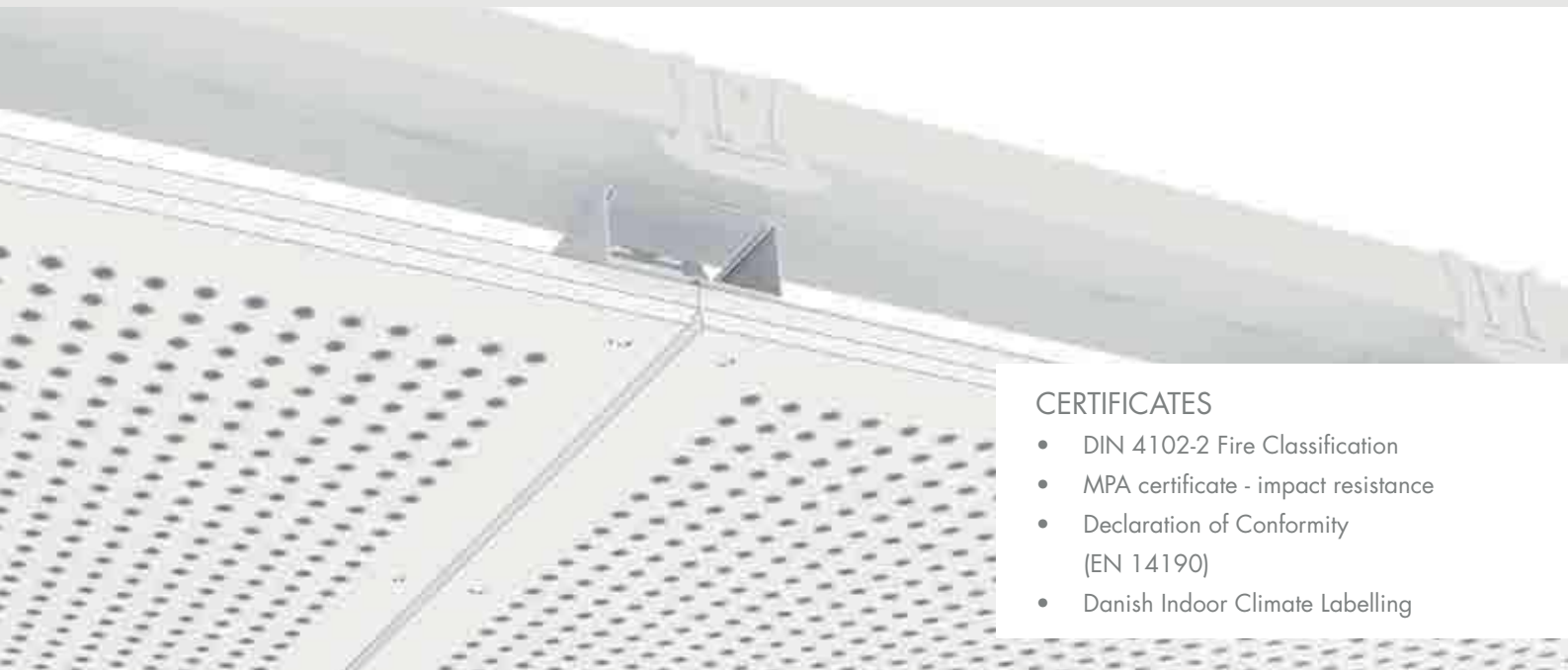
IMPACT RESISTANCE

Contrapanel is especially designed to meet the tough requirements for wall and ceiling linings in facilities used intensively for sport, such as sport halls and gymnasiums.

The panels show no visible deformation after the tests carried out in accordance with EN 13964 or DIN 18032.

Contrapanel meets the toughest class 3 requirements in accordance with EN 13964 for impact resistant ceiling linings, and the even tougher requirements in DIN 18032 for impact resistant wall linings, making the product ideal even for handball or hockey courts.

| Perforation | Tile weight* | Transportation weight* | *(kg/m ²) |
|-------------|--------------|------------------------|-----------------------|
| Globe | 8.9 | 9.7 | |
| Regula | 9.7 | 10.5 | |

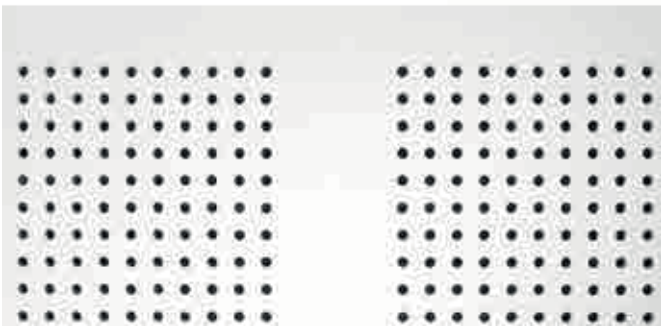


CERTIFICATES

- DIN 4102-2 Fire Classification
- MPA certificate - impact resistance
- Declaration of Conformity (EN 14190)
- Danish Indoor Climate Labelling

PERFORATION

Also available as Regula



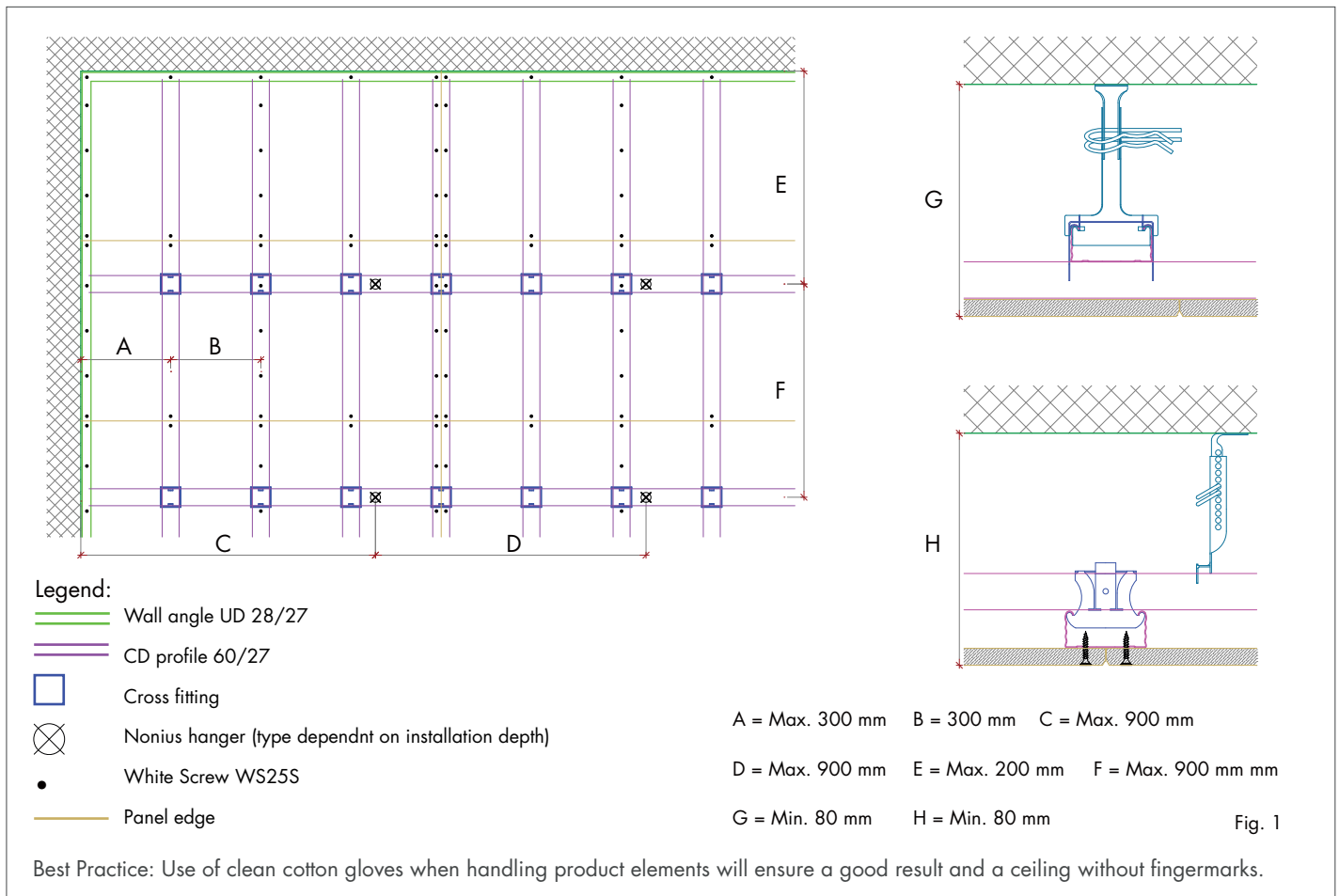
Globe, Ø6 mm,
15 mm c/c
Perforation G1F: 10.2%

EDGES



Edge B
(BEVELLED EDGE)
Visible joints

INSTALLATION GUIDE



CEILING LAYOUT

- Divide the ceiling surface from the centre of the room or in accordance with the existing ceiling plans.

INSTALLING THE WALL PROFILE

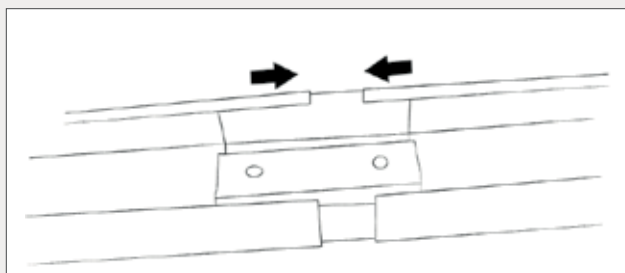
- Mark out.
- Install UD profile 28/27 with a max. distance between screws of 400 mm. Choose the fixings in accordance with the substrate.

HANGERS

- Secure the upper part to the construction above it at 900 mm c/c.
- Secure the lower part to the primary profile.

PRIMARY PROFILES

- Connect the two parts of the hangers with two split pins, one immediately above the other.
- Place the primary profiles at a max. distance of 900 mm from each other.



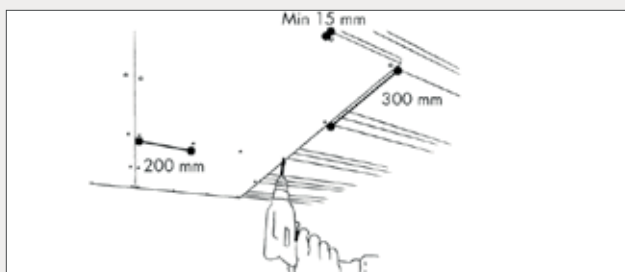
JOINING CD PROFILES

- Join the CD profiles (both primary and secondary profiles) with the help of length connectors.
- The joints can be made as butt joints.



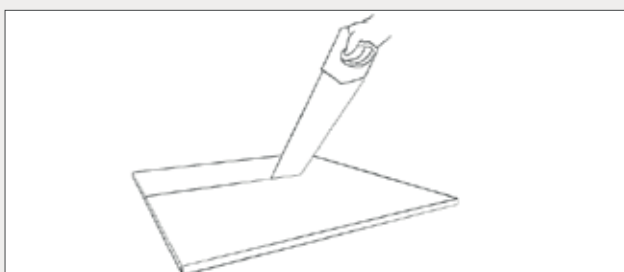
SECONDARY PROFILES

- Place a cross fitting on the primary profile.
- Press the underlying secondary profile into it.
- Place secondary profiles at 300 mm c/c.
- Adjust the locations of the secondary profiles and lock the cross fitting.



INSTALLATION

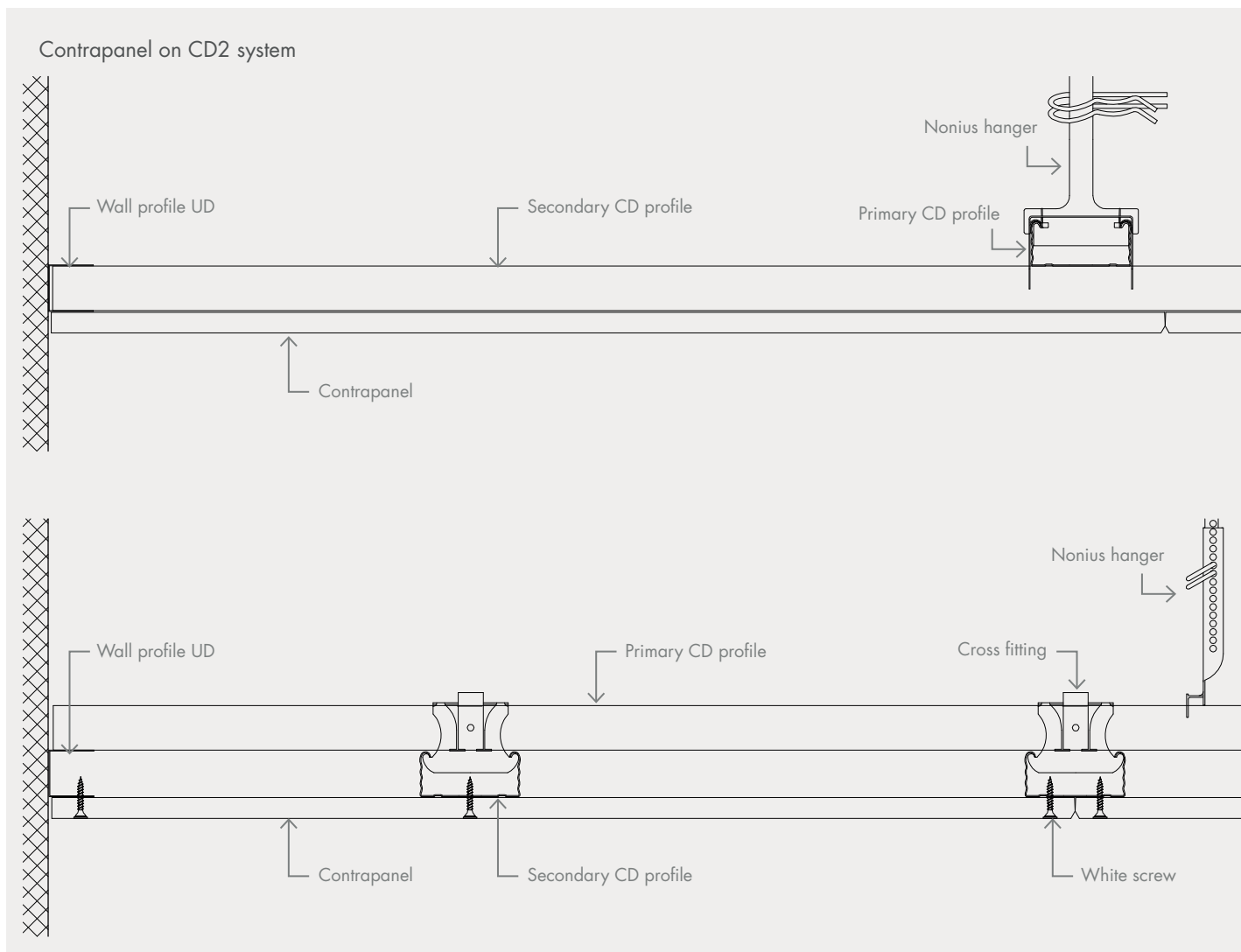
- Always wear cotton gloves when handling the panels.
- Mark the position of screws on the Contrapanel. Use the supplied template for this if necessary.
- Install the elements from the centre. Install the first row with the help of string.
- Secure screws min. 15 mm from the edge of the element at 300 mm c/c.
- Use white screws.



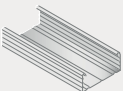






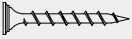
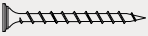

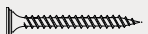
CUTTING

- Cut the elements to size from the front with a fine-toothed saw.

DETAILS



ACCESSORIES

| PRODUCT NAME | | SAP NO. | W x L x H (mm) |
|------------------------------------------------------|-------------------------------------------------------------------------------------|---------|----------------|
| Primary / secondary CD 60/27-profile |  | 2648 | 60 x 4000 x 27 |
| Wall angle UD 28/27 |  | 2649 | 28 x 3000 x 27 |
| Length connector CD 60/27 |  | 4281 | 59 x 80 x 28 |
| Cross-fitting |  | 4284 | - |
| Split pin for hanger |  | 8513 | - |
| Nonius hanger lower |  | 8510 | - |
| Nonius hanger upper 85mm |  | 8511 | 125 - 185 |
| Nonius hanger upper 135mm | | 8512 | 135 - 235 |
| Nonius hanger upper 235mm | | 9201 | 235 - 340 |
| Nonius hanger upper 340mm | | 9202 | 340 - 440 |
| Nonius hanger upper 440mm | | 9203 | 440 - 540 |
| Nonius hanger upper 540mm | | 9204 | 540 - 640 |
| Nonius hanger upper 640mm | | 9205 | 640 - 740 |
| Nonius hanger upper 740mm | | 9206 | 740 - 840 |
| Nonius hanger upper 840mm | | 9207 | 840 - 940 |
| Nonius hanger upper 940mm | | 9208 | 940 - 1040 |
| White painted screw WS32T - for 1 layer on wood |  | 6389 | 32 |
| White painted screw WS42T - for 2 layers on wood |  | 14621 | 42 |
| White painted screw WS25S - for 1 layer on steel |  | 219774 | 25 |
| White painted screw WS38S - for 2 layers on steel |  | 219780 | 38 |

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.

| PRODUCT CATEGORY | DEMOUNTABLE T-GRID CEILINGS | |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Products | Visona, Contur, Belgravia, Linear, Markant, Plaza | Danotile, Medley |
| Surface | White painted | Foil finish |
| Upkeep | Designed for use under normal conditions, i.e. up to 70% RH and 25°C, e.g. in offices, institutions and similar premises. Belgravia, Markant, Plaza and Danotile 600x600 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. Special purpose, anticorrosion treated suspension systems should be used in areas of very high humidity. | |
| 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. LINEAR: To ensure good alignment it is important that the tiles are installed in the same orientation. This is also important for maintenance when vacuuming or painting. Always ensure that when applying upward (painting) / downward (vacuuming) pressure, that the tiles are pushed / pulled in the same direction moving away from the grooved edge. | Dust is removed using a dry duster or vacuum cleaner. Marks can be removed with a damp cloth using a mild detergent if necessary. Stronger cleaning agents may be used where necessary to remove stubborn marks or where cleaning regimes require it. The product can also stand rigorous cleaning with concentrated disinfectants and detergents with high and low pH values (13.0 - 2.5). |
| Repair | Stubborn marks and visible damages and scratches on the surface can be repaired. Damages and scratches can be filled and finished with sandpaper prior to repainting. When painting use Knauf Danoline repair paint or similar (closest RAL colour 9003) and apply by paint roller. 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. | Damages and scratches are difficult to repair and therefore it is recommended to replace damaged tiles with new. |
| Lamp suspension | <p>DANOTILE: For sizes up to 625x625 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.</p> <p>BELGRAVIA, MARKANT, PLAZA, MEDLEY: For sizes up to 625x625 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.</p> <p>VISONA, CONTUR, LINEAR: With smaller units (of up to 3kg) 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.</p> | |

| PRODUCT CATEGORY | SELF-SUPPORTING CEILINGS | |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Products | Corridor 400, Corridor Swing | Corridor F30 |
| Surface | White painted | Foil finish |
| Upkeep | Designed for use under normal conditions, i.e. up to 70% RH and 25°C, e.g. in offices, institutions and similar premises. Corridor 400 and Corridor F30 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. | |
| 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. 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. Spray painting is not recommended on perforated products, as there is a great risk of the spray paint being applied to the acoustic felt backing thereby altering the acoustic properties. | Damages and scratches are difficult to repair and therefore it is recommended to replace damaged tiles with new. |
| Lamp suspension | <p>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 / 265x265mm. Units over 3kg, should be supported independently, so that they do not place any load on the ceiling.</p> <p>CORRIDOR SWING: The ceiling tile may not bear additional weight from other installations.</p> | Objects up to a maximum of 17kg can be suspended using appropriate fixings. |

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 CEILING AND WALL LININGS | | | |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Products | Danopanel | Designpanel, Tectopanel, Solopanel, Stratopanel | Contrapanel, Adit | Kinopanel, Amfipanel |
| Surface | White painted | Untreated | Foil finish | Black painted |
| Upkeep | <p>Designed for use under normal conditions, i.e. up to 70% RH and 25°C, e.g. in offices, institutions and similar premises.</p> <p>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.</p> | | <p>CONTRAPANEL: Designed for use in sports halls and similar areas where conditions do not normally exceed 70% RH and 25°C.</p> <p>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.</p> <p>Adit and Contrapanel have also been tested at 90% RH at 30°C and can be used under more extreme conditions with frequent and major changes in temperature and air humidity.</p> | <p>Designed for use in cinemas, theatres, studios and similar premises under normal conditions, i.e. up to 70% RH and 25°C.</p> |
| Cleaning | <p>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.</p> <p>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.</p> | | | |
| Repair | <p>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 (closest RAL colour 9003) and apply by paint roller. 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.</p> | <p>Use a paint roller to apply paint. Use the same paint as the original surface finish chosen. Spray painting is not recommended on perforated products, as there is a great risk of the spray paint being applied to the acoustic felt backing thereby altering the acoustic properties.</p> | <p>Damages and scratches are difficult to repair and therefore it is recommended to replace damaged panels with new.</p> | <p>When painting use Knauf Danoline repair paint or similar (as NCS S9000-N) and apply by paint roller. 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.</p> |
| Lamp suspension | <p>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.</p> | <p>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.</p> | <p>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.</p> <p>ADIT: The panel may not bear additional weight from other installations.</p> | <p>The panel may not bear additional weight from other installations.</p> |

| PRODUCT CATEGORY | DESIGN ELEMENTS | |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Products | Curvex | Mitex |
| Surface | Untreated | Untreated |
| Upkeep | <p>Designed for creating organic wall and ceiling shapes e.g. in offices, institutions and similar premises under normal conditions, i.e. up to 70% RH and 25°C.</p> | <p>Designed for creating clean-cut edges wall and ceiling shapes e.g. in offices, institutions and similar premises under normal conditions, i.e. up to 70% RH and 25°C.</p> |
| Cleaning | Dependent on the chosen surface finish. | |
| Repair | Dependent on the chosen surface finish. | |
| Lamp suspension | The panels are custom made and may not bear additional weight from other installations unless otherwise advised. | |