

Feltkütur products

Preparation guide



Dress it up in haute couture

feltkütur

Texel
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Product description

Düotex

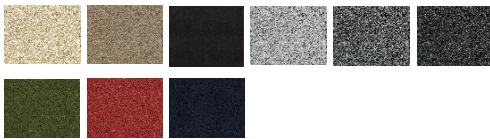
The **Düotex** is a halfway impregnated latex decorative felt. The resin properties allow to enhance the stiffness of the felt without adding low melt fibers (bicomponent fibers), which tend to create creases when folded. With the **Düotex**, you have a soft side free of latex which improves the look and feel. On the other side, the resin gives the structural properties and offers a great tackable property.

Düotex - Panel sizing

Thicknesses: 6.4mm or ¼" (±10%) and 12.7mm or ½" (±10%)

Panel size: 1.24m x 2.46m or 48.8" x 96.8" (±10%)

Available in 9 colors



Ünitex

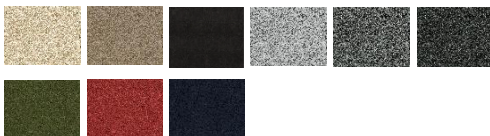
The **Ünitex** was designed to offer high stiffness properties. The resin is applied through all the thickness of the felt, making the product tougher and a more abrasive resistant. There is no bi-component fibers in the content. The structural properties of the **Ünitex** allow to make standalone application. The **Ünitex** is lighter and more acoustical than the Tentest and offers better dimensional stability than wood fiber products. Easy to laminate with fabrics or felt like our **Feltväri** or it could be used as is. This product offers tackable properties on both sides.

Ünitex - Panel sizing

Thicknesses: 7mm or ¼" (±10%) and 12mm or ½" (±10%)

Panel size: 1.24m x 2.46m or 48.8" x 96.8" (±10%)

Available in 9 colors



Tekboard

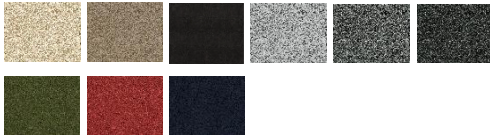
The **Tekboard** was designed to offer high structural properties. The honeycomb core combined with either **Ünitex** or **Düotex** amplifies the acoustical properties. Two different technologies are available using that product ; Tekboard laminated with only Ünitex or Düotex alone amplifies the sound absorption properties (NRC) due to its honeycomb structure and Tekboard laminated with particle board surface and Ünitex or Düotex provides excellent sound transmission properties (STC). In addition to the structural properties this product offers tackable properties on both sides.

Tekboard - Panel sizing

Thicknesses: 50mm or 2" ($\pm 10\%$) and 19mm or $\frac{3}{4}$ " ($\pm 10\%$)

Panel size: 1.24m x 2.46m or 48.8" x 96.8" ($\pm 10\%$)

Available in 9 colors



Product properties

Our Content

The **Düotex** and the **Ünitex** have a 100% polyester (PET) content and may contain up to 50% of recycling polyester (PET) fibers depending on color properties.

Fire Rating (Flame spread)*

The **Düotex** and the **Ünitex** are **Fire rated** by the ASTM E-84.

Acoustical properties*

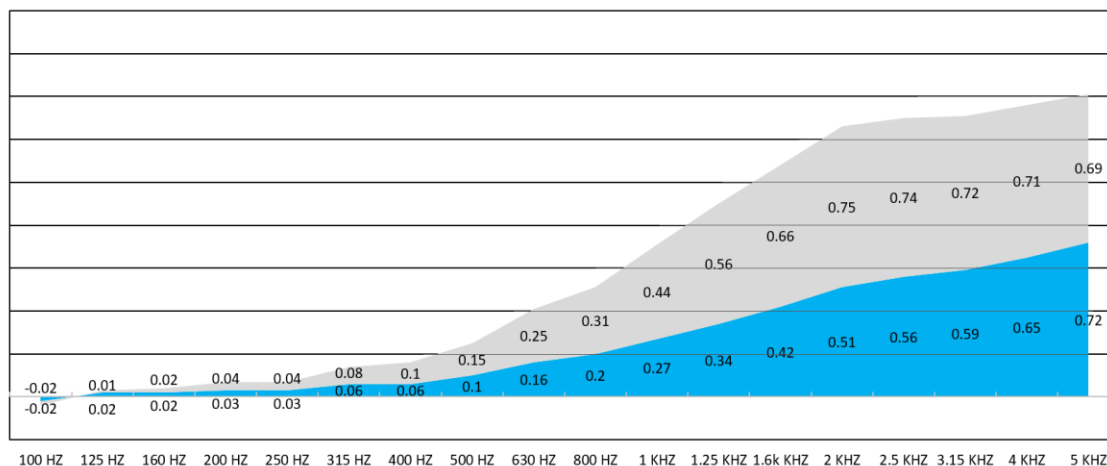
Users are beginning to make greater demands for quieter work environment, and because of this, designers have begun to manage airborne sound inside the office environment with greater knowledge and products. Thanks to the advanced engineering capabilities of Feltkütür's technology, what used to be thought of as an uncontrollable source of unwanted sound is now fair game in the request to reduce interior noise. With Feltkütür's knowledge, nothing has been left unexplored when it comes to finding new ways to ensure a quieter work environment experience.

ASTM C423 DÜOTEX 6.4mm (¼") & ÜNITEX 7mm (¼")

INDEX	NO AIR GAP	WITH 25.4mm (1") AIR GAP
SAA	0.23	0.34
NRC	0.23	0.34

Absorption coefficient spectrum (ASTM C423)

■ Ünitex 7mm & Düotex 6.4mm (¼") ■ With 25.4mm (1") air gap



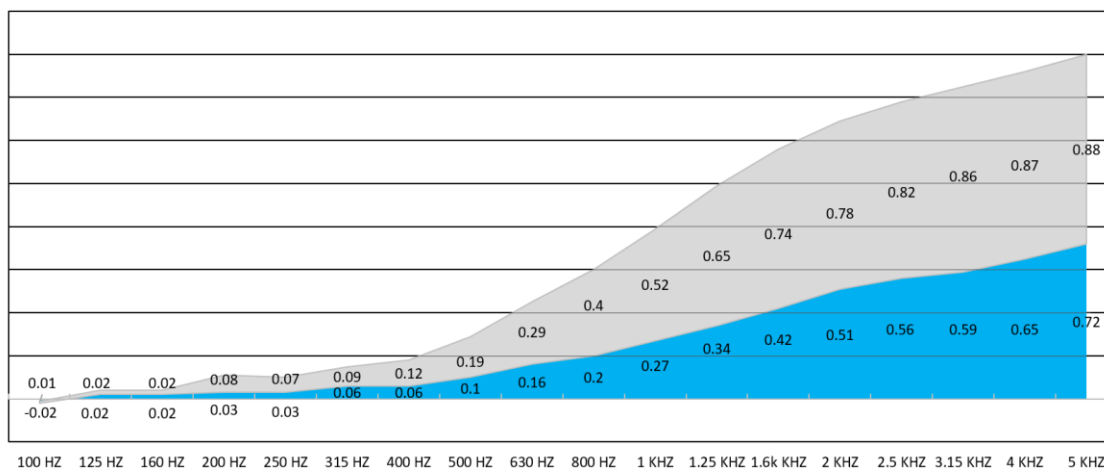
* See technical data sheet for more details.

ASTM C423 ÜNITEX & DÜOTEX 12mm (½")

INDEX	NO AIR GAP
SAA	0.40
NRC	0.39

Absorption coefficient spectrum (ASTM C423)

■ Ünitex 7mm & Düotex 6.4mm (¼") ■ Ünitex & Düotex 12mm (½")

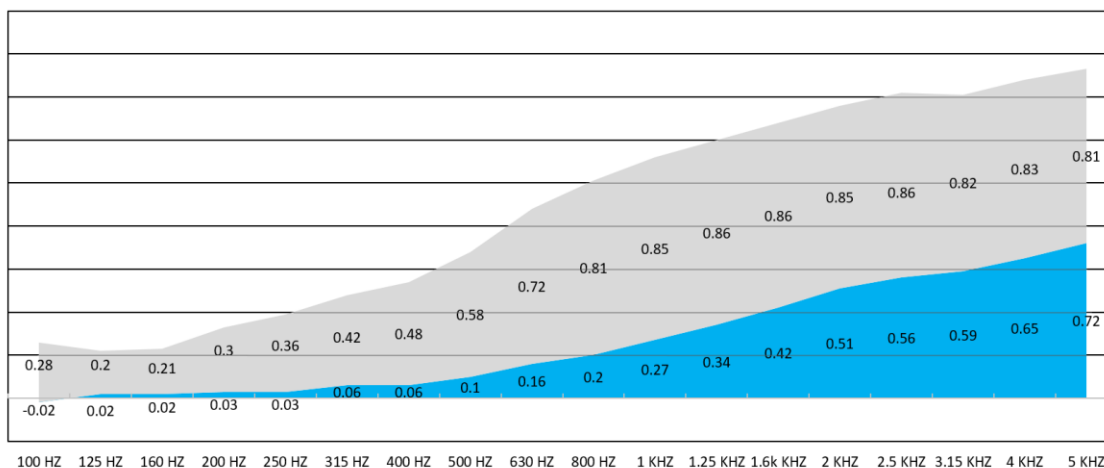


ASTM C423 TEKBOARD 50mm (2")

INDEX	NO AIR GAP
SAA	0.66
NRC	0.66
STC	32

Absorption coefficient spectrum (ASTM C423)

■ Ünitex 7mm & Düotex 6.4mm (¼") ■ Tekboard 50.8mm (2") with Ünitex 7mm (¼")



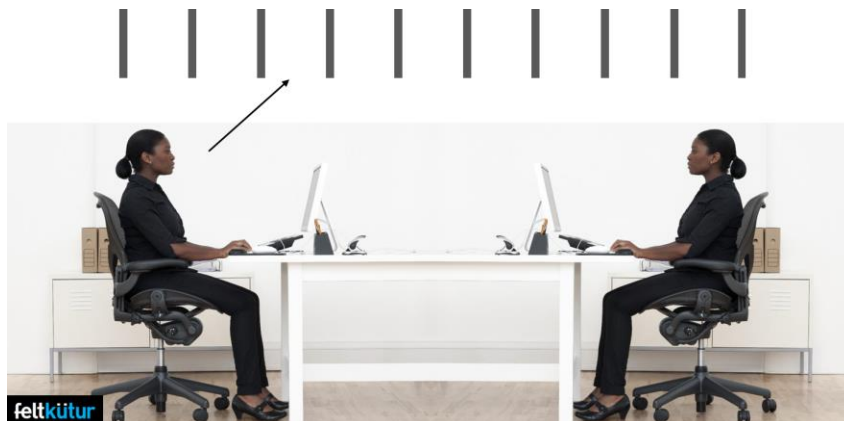
Application



Voice absorption
Team work



Voice absorption
Team work or one-on-one discussion



Voice absorption &
HVAC sound absorption



Voice absorption and isolation
Individual work



Voice absorption and isolation
Individual work

Düotex & Ünitex- installation on drywall



What you will need

Hardware:



Standoff Without Ring
Quantity: ten (10)
Richelieu code: **BP31338140**
For Düotex or Ünitex product 12mm thickness



Standoff without Ring - Cap included
Quantity: 10
Richelieu code: **BP31338175**
For Düotex or Ünitex product 6.4mm thickness

Tools:



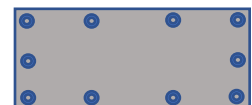
- 1- Before cutting to the desired size, be sure to put soft foam kneepads to avoid damaging the product.



- 2- Cut to the desired size with a cutting knife.



- 3- Measure and mark where spacers will be placed, for a panel of 4' x 8', we will use ten (10) spacers.



- 4- Drill the panel with a 7/32 " drill bit.



- 5- Afterwards, place the Dütex or Ünitex panel where you want to install it (use a level).



- 6- Ask someone to help hold the panel in place, then use the drill to mark where the anchors should be screwed.



- 7- Use self-drilling anchors for gypsum, screw them into the wall where you made your marks before.



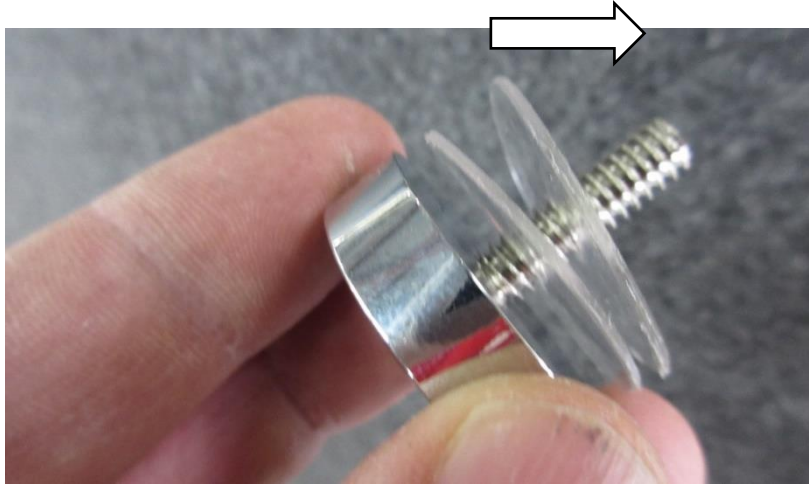
- 8- Unscrew the lower part of the spacer.



- 9- Install this part into the self-drilling anchors with the screws that are provided.



- 10- Separate the remaining two parts of the spacers, Remove the vinyl washers, we do not need them for this kind of installation.



- 11- Screw the second part of the spacers onto the lower part you have just installed.



- 12- Ask help from someone to reposition the Dütex or Ünitex panel where you will install it, and then, screw the last part of the spacers into the parts on the wall.



- 13- If some holes do not quite fit the wall mounted spacers, enlarge them with the drill using a larger drill bit, in this case 13/32 ".



- 14- Final result:



Düotex & Ünitex- suspended installation



What you will need

Hardware:



Stainless Steel Rods

Quantity: Depends on the desired height

Richelieu code: **BP124302175**



Supports

Quantity: Depends on the desired height

Richelieu code: **BP124311175**

For Düotex or Ünitex product 6.4mm thickness



Rod Bases

Richelieu code: **BP124303175**



Ceiling Mounting Unites

Richelieu code: **BP124312175**

Tools:



- 1- Before cutting to the desired size, be sure to put soft foam kneepads to avoid damaging the product.



- 2- Cut to the desired size with a cutting knife.



- 3- Thread the Rods into the panel supports.



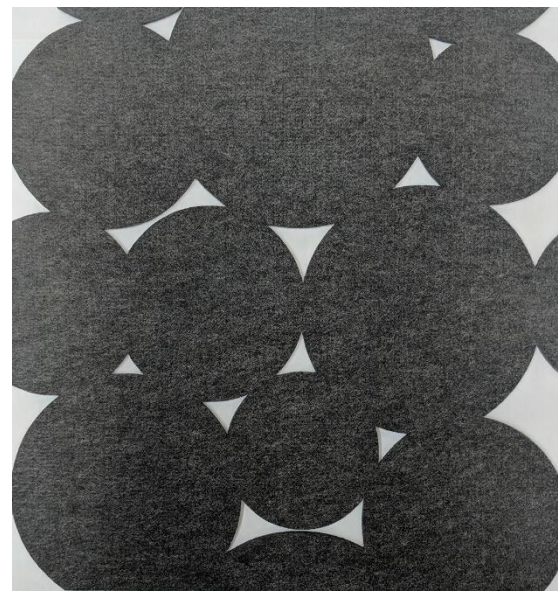
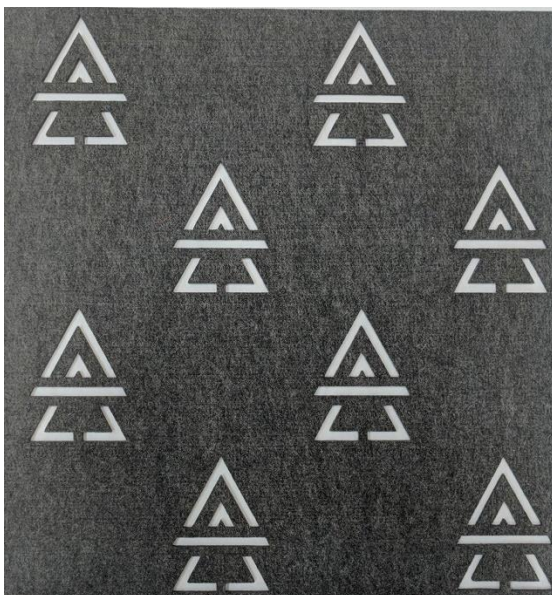
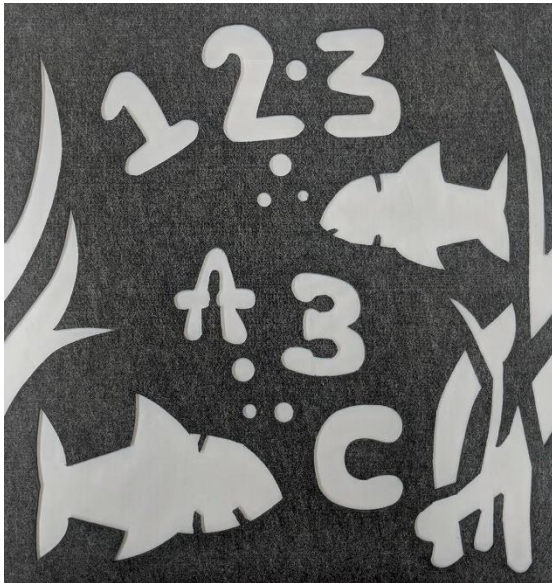
- 4- Place a Rod Base to the opposite of the Rods and place the Ceiling Mounting Unites to the other opposite of the Rods.



- 5- Place the Dütex or Ünitex panel with the help of the Swivel Shelf Brackets.



Acoustic tile - installation



We strongly suggest installing all tiles on our Dütex or Ünitex panel to ensure a great acoustic performance.

Option 1: Screwing the tile What you will need

Hardware:



Metal Cover Cap
Quantity: depends on the
shape of the tile
Richelieu code: **66180**



#6 and #8 flat head screws
Quantity: depends on the
shape of the tile

Tools:



1. Then you can add decorative Düotex or Ünitex panels (Acoustic tile) that will be screwed directly onto the other panel.



2. Installation is done with standard wood screws and chrome-plated screw caps.



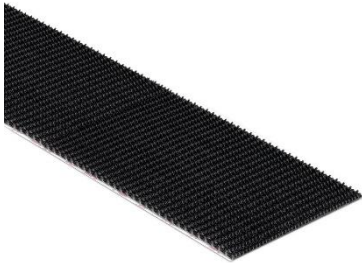
3. Final result :



Option 2: Using Velcro to fix the tile

What you will need

Hardware:

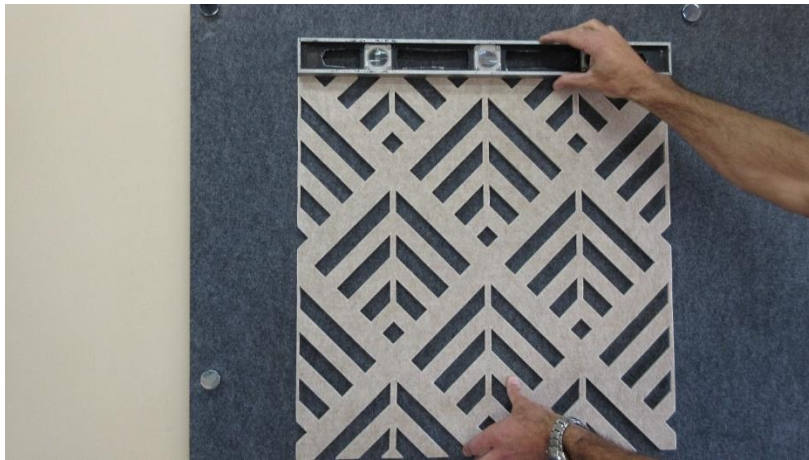


VELCRO® Brand Tape with Peel and
Sticker adhesive
Quantity: depends on the shape of
the tile
Richelieu code: **V158501**

Tools:



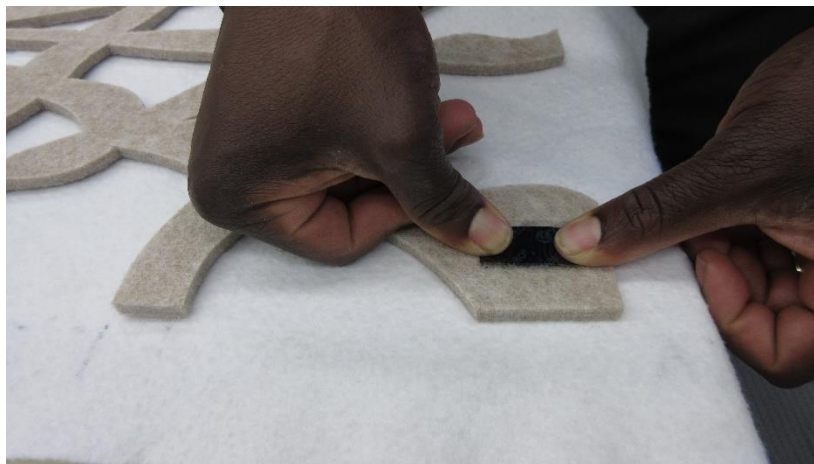
1. Then you can add decorative Dütex or Ünitex panels (Acoustic tile) using Velcro directly onto the other panel.



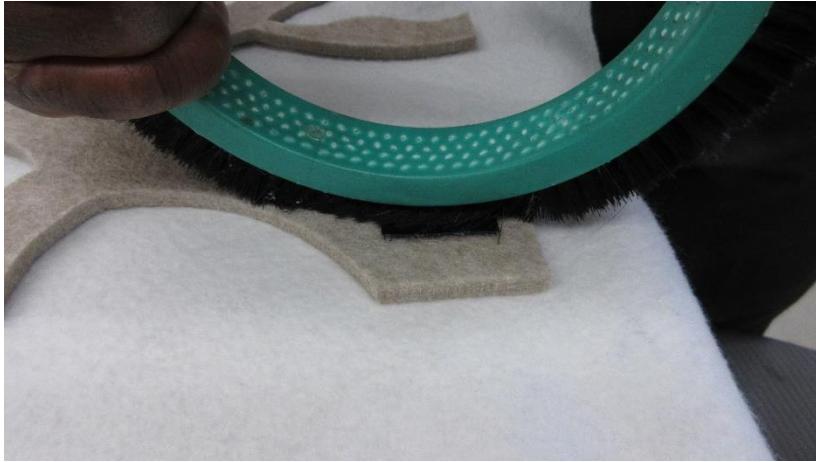
2. Cut the Velcro to the desired size.



3. Apply Velcro at desired locations.



4. Apply pressure on the Velcro.



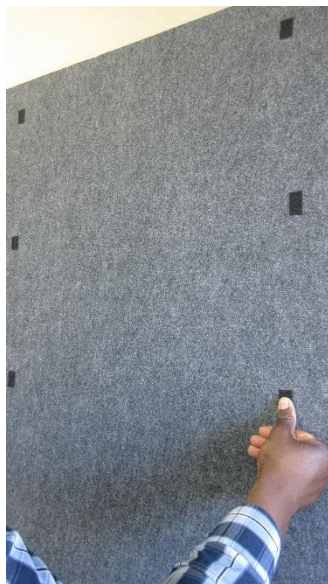
5. Remove the protective film of the glue side.



6. Apply the acoustic tile to the wall and remove. The glue side of the Velcro must be applied on the Dütotex or Ünitex panel.



7. Apply pressure to the Velcro and place the tile on the wall again.



Tekboard - Edgebanding installation



What you will need

Hardware:



Adhesive 3M
3M code: 300MP 99786

Tools:



1- Place the Tekboard on a clear and hard surface to manipulate the product.



2- Apply the adhesive directly on the edge.



3- Use an exacto to be more precise for applying the adhesive.



4- Final result:



Product capabilities

Mold-to-measure with thermoforming

Düotex and **Ünitex** can be thermoformed into almost any three-dimensional shapes. Simply preheat it, then shape it by applying pressure in a cold mold. Hot air is generally used for preheating, but another option is infrared heaters in a conveyor oven or on a rotary molding table. It is possible to work with several different densities when molding. However, your options don't stop there: **Düotex** and **Ünitex** can be laminated with a variety of fabrics, other nonwoven, films and knitting.

Pressure forming technology

When **Düotex** and **Ünitex** are pressure formed between the male and female molds, the ideal wall thickness distribution is produced in the cross direction, thereby eliminating the need to stretch the material during the process. The material to be formed should be between 302°F and 375°F (150°C to 190°C), depending on its density and thickness.

Cutting (table saw)

We recommend coated blades. There are a few blades which are coated with Teflon (PTFE), in order to reduce friction. This type of coating can be very valuable, as the greatest amount of friction comes from debris captured between the blade plate and the material being cut. By coating the blade plate, this debris won't stick to the blade, causing it to be more easily ejected from the kerf. Moreover, there may be times where the material pinches the blade, even though the plate is thinner than the teeth. This type of problem is especially prevalent with hand-held circular saws and power miter saws.

Speed

The harder the material you are cutting, the slower the cut should be. We recommend a high-speed RPM. Since some types of saws don't have speed controls, one way of increasing cut speed is to use a blade with more teeth in case the requirements of finish are important. This will help prevent overheating. Remember, using rip blades for cross-cuts will tear the panels at the ends.

Knife cutting

Among all categories of testing, you will get better results for your cutting operations with steel Exacto blades.

Cleaning and Care

In order to maximize maintenance on Feltkütür products, the following three different maintenance levels should be considered:

- Cleaning
- Disinfection
- Sanitation

Cleaning

Cleaning is the first step to ensuring proper maintenance of the equipment and must precede disinfection or sanitation. This step helps reduce dust and dirt without destroying bacteria. The removal of dust and dirt can be done by dusting or vacuuming (without brushing). To remove certain stains, we recommend using a soft cloth and a cleaning solution for carpets or upholstery. No specific cleaning product is recommended, but products used to clean porous and synthetic materials may be suitable. Always follow the product manufacturer's recommendations and test any cleaning method on a non-visible area first.

Disinfection

After the cleaning stage, the product is now ready for disinfection and / or sanitation. The use of the **Lysol®** disinfectant spray for fabric is a product that has been proven to kill bacteria. It is important to follow the instructions on the disinfectant in order to apply it properly. *"Spray a light even coating on fabric until wet. DO NOT SATURATE. Let air dry. For difficult odors or heavy fabrics, repeat application. Reapply as necessary. Do not use on leather, silk, rayon acetate or satin fabrics. Always test on a hidden area of fabric."*¹



Sanitation

After the cleaning stage, the product is now ready for disinfection and / or sanitation. Using a steam cleaner is an option to help minimize the spread of viruses. The steam generators increase disinfection thanks to the combination of the high temperature of 100 °C and a pressure between 6 and 10 bar. Apply steam back and forth, avoid being stationary.

Texel Technical Materials, Inc. offers suggestions for maintaining product quality, however, there are no proven studies showing the reduction or complete elimination of infectious agents. No warranty is given for the maintenance results with this product and you should always test any cleaning method on an inconspicuous area first and read the recommendations of the product used. It is also recommended to adapt your maintenance plan according to your specific needs.

¹ <https://www.lysol.ca/en/our-products/disinfectant-sprays/>

Accessory by



Section Wall system

VELCRO® Brand Tape with Peel and Stick Adhesive



Product number	Width	Type
<u>V158501</u>	¾ in	Hook

Metal Cover Cap



Metal screw plug for #6 and #8 flat head screws

Product number	Diameter	Drilling Diameter
<u>66180</u>	12 mm	12 mm

Standoff Without Ring - Cap included



For product thickness 8 mm to 12 mm

Product number	Height
<u>BP31338140</u>	1 1/2 in
<u>BP31319140</u>	3/4 in

Standoff without Ring - Cap included



For product thicknesses 5mm to 8mm

Product number	Height
<u>BP31319175</u>	3/4 in
<u>BP31338175</u>	1 1/2 in

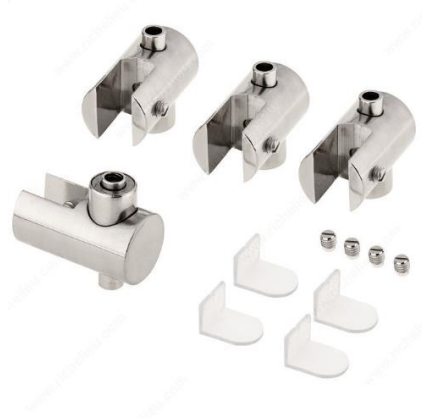
Section suspended panel

Stainless Steel Rods



Product number	Dimension
<u>BP124302175</u>	1m

Swivel Glass Shelf Brackets



Product number	Thickness
<u>BP124311175</u>	5 to 10mm

Rod Bases



Product number
<u>BP124303175</u>

Ceiling Mounting Unites



Product number
<u>BP124312175</u>