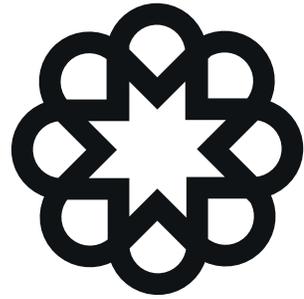
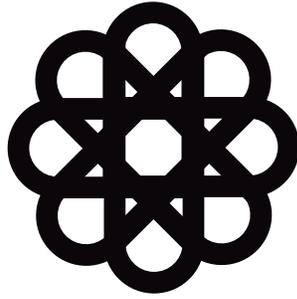


# FELTUM CONTEMPORARY FELTWORKS

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OUR FELT



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## ECOLOGICAL

Wool and plant felt are entirely natural materials.

The sheep's' hair grows back rapidly and it is 100% bio-degradable. As such the material goes hand-in-hand with current tendencies to work towards green buildings and therefore it qualifies for LEED green building certification. Feltum felts are not only sustainable on a general level, they also benefit people in direct contact with it. They are certified to meet the human-ecological requirements for products with direct contact to the skin under Oeko-Tex® Standard 100, Product Class II. It is a hypo-allergenic material. Dust mites shun wool felt.

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## FELT WOOL

Wool felt is the oldest textile known to mankind yet it is ultra-contemporary.

The fabric is in high demand among architects and designers not only for its aesthetic appeal, but also for its very favorable physical characteristics for the built environment. It has excellent acoustic absorption: Noise Reduction Coefficients between 0.2 and 1.2 can be achieved; depending on product. As a Rapidly Renewable Resource wool felt qualifies for LEED® certification MR Credit 6.0. Wool Felt is ecologically sustainable, because it is a rapidly renewable resource. The sheeps' hair grows back. It also can be safely disposed and is 100% BIODEGRADABLE. Felt has a life cycle that is substantially longer than any other upholstery fabric. Our wool felt is ecologically certified under Oekotex Standard 100.

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## PLANT WOOL

PLANT felt is our innovative non woven textile.

It is flame retardant in our standard thicknesses of 2 mm and 3 mm (ASTM E 84). Thicker sheets such as 5mm need a protective coating to achieve this standard. Felt is an excellent thermal insulator. And a high natural Lanolin content of the animals' hair makes felt resistant to liquids. We have 20 basic colors, 20 special. and colors customizable to clients' specifications.

**The longer we work with felt, the more applications we find.**

A world novelty, made from fast growing plants and woods our renewable, highly ecological material can compete in price with PET with the difference that FLORAFELT being completely LEED, and of a great look and quality. As a Rapidly Renewable Resource FLORAFELT qualifies for LEED® certification MR Credit 6.0. It also can be safely disposed and is 100% BIO-DEGRADABLE. It is THERMOFORMABLE. We have 16 basic colors, and more to come.

## ACOUSTICS AND WORK EFFICIENCY

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What we do know for a fact is that ambient noise levels affect people's health by increasing general stress levels and lower work performance.

There is a fascinating book with a compilation of texts by leading scientists and thinkers on 'What We Believe But Cannot Prove'. Let us take a try at the topic and then move on to what is proven: Scientific studies have shown that so called 'situational clues' are important in influencing human behavior. A pair of painted eyes in an 'Honors Coffee Bar' leads to much higher compliance in actually paying for a cup of coffee. Having research subjects hold a warm cup of coffee made them much more inclined to judge their colleagues positively than people that were left without the warm cue. Could it be that environments that are rich in 'warm' cues such as comforting wool influences their dispositions to be somewhat softer,

more accommodating and cooperative? What we do know for a fact is that ambient noise levels affect people's health by increasing general stress levels and lower work performance. Continued exposure does not lead to habituation; in fact, the effects worsen (National Institute for Occupational Safety and Health). Classrooms in the United States typically have speech intelligibility ratings of 75% or less, meaning every fourth spoken word is not understood (Seep, Glosemeyer, Hulce, Linn, & Aytar, 2000). Loud or reverberant classrooms may cause teachers to raise their voices, leading to increased teacher stress and fatigue (Tiesler & Oberdörster, 2008). After surveying 65,000 people over the past

decade in North America, Europe, Africa and Australia, researchers at the University of California, Berkeley, report that more than half of office workers are dissatisfied with the level of "speech privacy", making it the leading complaint in offices everywhere (NY Times, May 2012). Felt can help. Well-designed acoustic materials and products help through sound absorption and decreased reverberation times to bring acoustics to healthy levels. Noise Reduction Coefficients for felt can range between 0.2 for basic felt wall coverings to 1.2 for ceiling baffles. Our felts have been acoustically tested (see charts). Since we have worked tightly with architects on individual solutions to their tasks, we have not measured the finished products.

*In the first months of 2017 we will introduce a range of standardized products. Individual product sheets with their respective acoustic measurements will be added continually to this catalogue.*

# FELTUM CONTEMPORARY FELTWORKS

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## OUR FELT - FREQUENTLY ASKED QUESTIONS

### LONGEVITY

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The use of felt rugs is comparable to oriental rugs. However, felt rugs have some distinct properties: Oriental rugs have individual threads that can absorb liquids easily. Felt in comparison has a flat surface. It's very dense structure and its high content of natural oils make it repellent to liquids and stains. This gives the owner the chance to get a cloth and wipe off liquids in case of spilling. Liquids such as wine should not be left unattended, however. Please treat the stain immediately to prevent damage (please see our cleaning instructions below). A specific advantage of our felt rugs that have a complex geometry (with many individual elements of different colors) is that potential damage can be repaired more easily in case of a serious accident, because individual elements may be replaced. There may be slight color variations between production runs of the same tone, but your rug won't be ruined. Another consideration in our reversible line is that life span is effectively doubled by the possibility of turning over the rug and start a new life. Felt rugs don't get worn out like knitted rugs where the fibers can shorten or break with use. With heavy use, however, they can start pilling. This is why felt rugs should be used in a home or in light contract situations; not in the entry of a highly frequented business. The same holds true for oriental rugs. Changes in surface structure can usually be repaired using an iron (please see our cleaning instructions below). Natural fibre rugs require an average humidity between 45% and 60%. With insufficient humidity, dehydration is a risk factor for premature wear of the fibre construction. This risk is reduced with felt rugs because of the high Lanolin content.

### PRECAUTIONARY MEASURES FOR ALL TYPES OF RUGS

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Walk entry distances from a rug are important and have to be kept clean, designed to serve as effective flooring dirt traps. This is because up to 95% of dirt in buildings comes from the outside environment. As a rule of thumb, it is recommended that visitors take six steps through shoe wipers to remove surface dirt from shoes. doctor.com/ using the recommended supplied handset should be used in this instance. Before washing the affected area, the stain should be sprayed with a surfactant cleaner. Following absorption of 2-3 minutes the area is rinsed and vacuumed with the Rug Doctor hand tool or consult a professional carpet cleaner of your choice.

### INTERMEDIATE AND DEEP CLEANING

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Felt rugs enjoy great popularity and have been used in Europe for many decades. This is how to enjoy your product for a long time. Felt carpets can be cleaned with a vacuum cleaner. The initial fluff that results from this is a normal process that decreases with time. This is not correlated with the overall quality of the carpet. For the intermediate and deep cleaning of felt rugs, yarnpad treatment is typically used involving wet cleaning with very little water. The use of specific felt yarnpads is recommended as this provides less rubbing strips, reducing wear. Micro-fibre is recommended to avoid visual impairment caused by the rotating yarnpad, and the carpet should be brushed when still in a damp condition.

### STAIN REMOVAL

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For felt carpets, similar rules apply to professionals during stain removal procedures. For the removal of smaller patches we recommend a special cleaning cloth available from Feltum. Although carpet qualities remain intact following cleaning, aggressive rubbing of a stain should always be avoided in felt rugs to avoid unnecessary structural changes. Should there be a slight change in structure, correction with an iron on a medium heat allows for easy correction. A neutral coloured linen cloth should be placed between the iron and carpet. Greater depth stains must be washed out. The Rug Doctor (wet treatment) <http://www.rugdoctor.com/> using the recommended supplied handset should be used in this instance. Before washing the affected area, the stain should be sprayed with a surfactant cleaner. Following absorption of 2-3 minutes the area is rinsed and vacuumed with the Rug Doctor hand tool or consult a professional carpet cleaner of your choice.

### CLEANING INTERVALS

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Vacuuming and regular stain removal are important to the maintenance of your rug. This can be performed by both the owner and by professional personnel. However, qualified professionals should always perform intermediate and deep cleaning routines.

#### INFREQUENT CARPET USE (HOME): < 500 FOOT STEPS PER DAY

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Vacuum Cleaning: Walkways:  
preferably daily, other Areas; 1 to 2 times weekly  
Stain Removal: Upon discovery  
Maintenance Cleaning: 1 to 3 times yearly  
Deep Clean: 1 to 2 times yearly

#### MEDIUM CARPET USE: 500 TO 1000 STEPS PER DAY

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Vacuum Cleaning: Walkways:  
daily, other Areas; 3 to 4 times weekly  
Stain Removal: Upon discovery  
Maintenance Cleaning: 3-4 times yearly  
Deep Clean: 2 to 4 times yearly

#### HEAVY CARPET USE: 1000 TO 2500 STEPS PER DAY

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Vacuum Cleaning: Walkways:  
daily, other Areas; 4 to 7 times weekly  
Stain Removal: Upon discovery  
Maintenance Cleaning: 4-6 times yearly  
Deep Clean: 3 to 5 times yearly

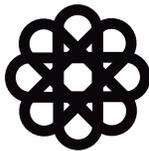
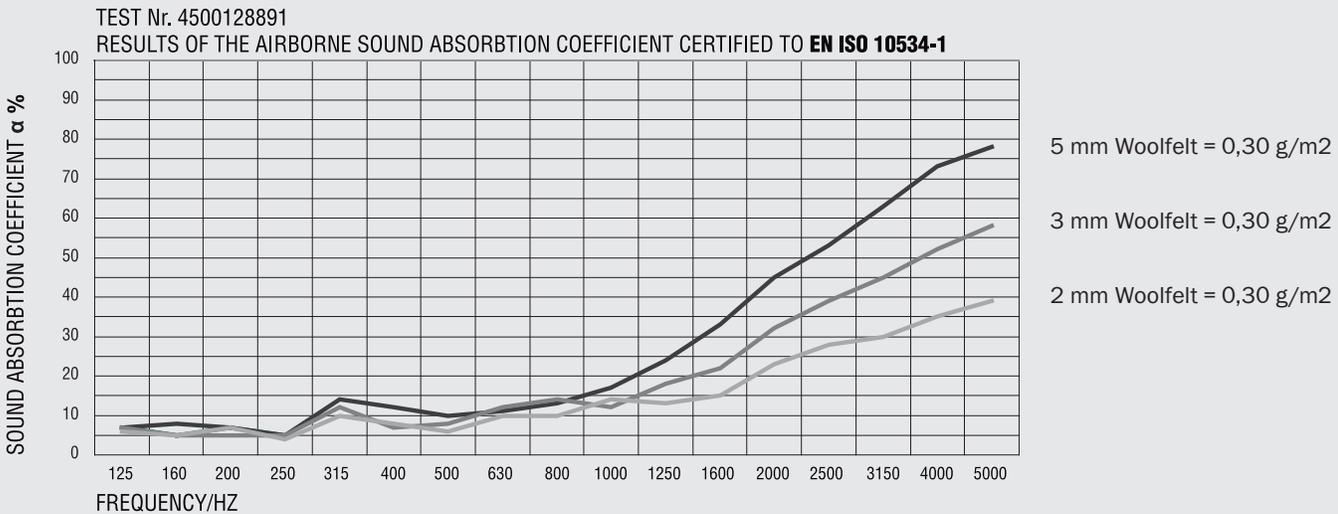
# FELTUM WOOLFELT SPECIFICATIONS

## TECHNICAL DATA

### MEASUREMENTS

THICKNESS	2 mm	3 mm	5 mm
WEIGHT	600 g/m <sup>2</sup> - 1080 g/r.m	900 g/m <sup>2</sup> - 1660 g/r.m	1500 g/m <sup>2</sup> - 2175 g/r.m
LENGHT	10-60 lin m - 11-65 lin yd	10-60 lin m - 11-65 lin yd	10-60 lin m - 30 lin yd
WIDTH	180 cm -70 3/4 in	180 cm -70 3/4 in	145 cm -57 in
DENSITY	0.30 g/cm <sup>3</sup> (+-0,037 g/cm <sup>3</sup> )	0.30 g/cm <sup>3</sup> (+-0,037 g/cm <sup>3</sup> )	0.30 g/cm <sup>3</sup> (+-0,037 g/cm <sup>3</sup> )

### ACOUSTIC MEASUREMENT



#### ABOUT FELT

Wool felt is the oldest textile known and at the same time a high-tech product. Our WOOLFELT is of the highest quality and meet exclusive demands. For you and your individual applications FELTUM creates cutom made products.

#### USES

Interiors, Wallcoverings,  
Architectural elements  
Fashion design, Home decor

#### CUSTOM MADE

Colors, shapes, installations

#### ENVIRONMENTAL

100% biodegradable  
no chemical irritants  
free of harmful substances  
Contributes to LEED®  
Renewable OEKO-TEX  
STANDARD 100 Certified  
Producto Class II

#### FIRE RESISTANT

B2 DIN 4102 T1

#### CARE INSTRUCTIONS

Vacuum occasionally  
Clean with a mild soap or  
comercial baby wipes  
Dry clean

#### FINISHING OPTIONS

Water Repellent/impregnated  
Flame-proof  
Mothproof  
Non-slip  
Antibacterial  
Fastness To Perspiration  
Fastness To Light  
Saliva-proof  
Hard Stiffened  
Anti-oxide (Asiii)

#### FELT FEATURES

homogeneous, non-reflecting  
surface  
wide colour range  
flowing drape  
clean cutting edges, no fraying