



GENUGTEN AGRI

PROFESSIONALS IN ANIMAL HOUSING



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UW DEALER

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'SOFT-AIR' VENTILATION CEILING



ALREADY 25 YEARS OF 'SOFT-AIR' VENTILATION CEILING!

The 'Soft-Air' ventilation ceiling was developed more than 25 years ago by Genugten Agri B.V. Since then we have continuously improved and further developed our product. Improvements at the ceiling are constantly being tested at our own pig farms. With years of experience and development, we guarantee to supply you with one of the best systems for the ventilation of your stables.



'SOFT-AIR' VENTILATION CEILING

THE BEST CHOICE FOR YOUR FARMS CLIMATE!

'SOFT-AIR', THE CEILING WITH THE MOST BENEFITS

By applying a 'Soft-Air' ventilation ceiling you are assured of the best ventilation system at most days of the year. The system is simple, because no technology is involved. In addition, pre-heating of the incoming air is not necessary. Since the glass wool has a glass fiber cover, the ceilings can be cleaned without damaging the glass wool. A ceiling can be supplied with partially closed sections to improve the air circulation in the department. There are a few big advantages that have to be taken into account. The ceiling is simple to assemble and is possible to have large free spans of the profile plates. Another advantage is a reduction on building costs because the roof only has to be insulated against the heat in the summer. The ceilings are available in fire rating Bs1d0. When opting for aluminium or wood wool cement boards, it is even possible to get the ceilings in fire rating A.

AVAILABLE IN FIRE RATING BS1D0

ABSOLUTELY CORROSION-FREE

POLYESTER, PVC, ALUMINIUM

WOOD WOOL CEMENT BOARD

EASY TO CLEAN

MINIMAL CONDENSATION

VERY LIGHT CEILING (4,5 KG/M²)

POSSIBLE WITH CLOSED SECTIONS

'Soft-Air' ventilation ceilings are installed across the production rooms entire area at a height of 2.5 to 3.0 meters. The plastic ceilings consists of polyester profiled plates with 3 mm wide grooves. The total open area of these grooves represents approximately 4% of the total surface. Glass wool with a thickness of 8 or 10 cm is placed on top of these profiled plates. The layer of glass wool is covered by a thin glass membrane at its underside that protects the glass wool during cleaning. The 'Soft-Air' glass wool - specifically developed for these ventilation ceilings - is treated with a silicone-based product designed to maintain the elasticity and dirt resistance of the glass wool for a long period of time.

FUNCTIONS OF 'SOFT-AIR' GLASS WOOL

The thick layer of 'Soft-Air' glass wool has the following functions:

- The incoming air is decelerated, filtered and distributed throughout the entire ceiling.
- In the event of lower outside temperatures, the air in the ventilation ceiling is heated to 3 to 5 degrees celsius below the room temperature. This precludes draughts and cold air fall.
- In addition to 80 mm, the glass wool is now available in a thickness of 100 mm as well. This increases resistance and heats the air to an even greater extent in winter.
- Due to the fact that the air is absorbed throughout the entire ceiling, no heat is lost through the roof, which leads to a saving in heating costs.
- The glass membrane protects the glass wool during cleaning and prevents it from sagging. The thin glass membrane has little resistance and prevents small particles of glass wool from falling into the stable.
- Due to its treatment with a silicone-based product the glass wool retains its elasticity and is protected against moisture.

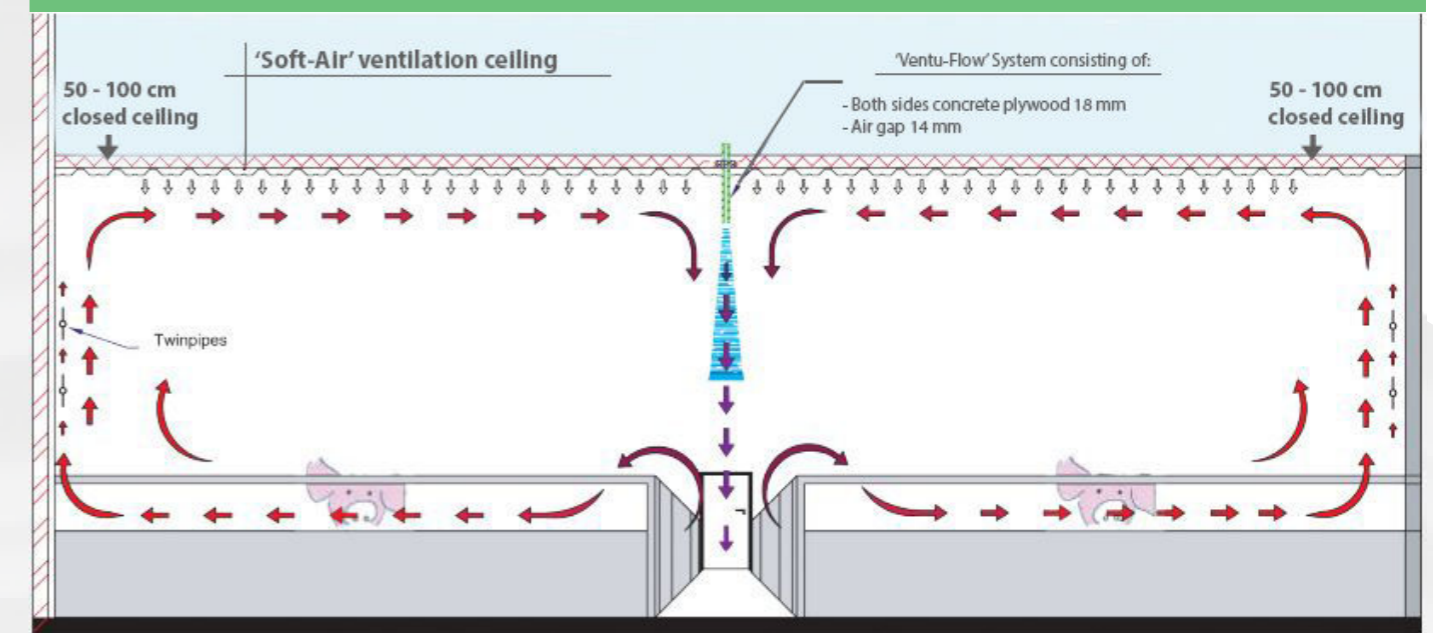


COMBINATION WITH FRESH NOSE PIPES

To supply extra fresh air near the sows' heads during the warm summer months, it is possible to supply the 'Soft-Air' ventilation ceiling with PVC pipes. These pipes are mounted above the sows' head up to a height of approximately 135 cm above the ground level. These pipes are provided with a plastic cover that makes it easy to close them. During colder periods, the air is only supplied by the 'Soft-Air' ventilation ceiling.



IMPROVED CLIMATE WITH THE 'VENTU-FLOW' SYSTEM



COMBINATION WITH TRANSLUCENT PLATES

Having enough daylight in farms is becoming increasingly important. The 'Soft-Air' ceiling can be outfitted with translucent polycarbonate plates that allow daylight to enter via the roof. The 16 mm multi-chamber polycarbonate plates used for this purpose have a high insulation value. Because only 2 to 5% of the floor surface needs to be translucent, these plates do not disrupt the ventilation pattern.



VENTU-FLOW SYSTEM

The 'Ventu-flow' system prevents disrupting air movements from one half of the room to the other half. This reduces potential temperature variations in a room. In addition, the natural airflow in a room is stimulated. As a result there is less ventilation needed in the winter period, while the fresh air is better used in the summer. Furthermore, the pig farmer enjoys a better working climate with more fresh air due to the fact that the system is located above the inspection corridor.

TECHNICAL SPECIFICATIONS

FIREPROOF CEILINGS



POLYESTER SOFT-AIR

Material: Fiberglass reinforced polyester
Available colour: Light gray ca. RAL 7035
Plate length: Variable to define, 1,0 tot 10,0 m
Effective width: 100 cm
Plate thickness: ca. 1,2 mm
Maximum span: 240 cm

Glass wool

Treatment of materials: Silicones
Thin glass membrane: Glued to the bottom
Available colour: Green-yellow
Specific mass: ca. 17,5 kg/m³
Roll length: 10 meter
Roll width: 120 cm
Thickness: 80 / 100 mm
Perforation: 3 mm slots, ca 4% open

Suspension

Beams: 50 x 100 mm
Galvanized chains: Galvanized, 5 x 45 mm
Fixation: SS round head screws 5 x 30 mm torx

'Ventu-Flow' system

Wall construction: 18 mm shuttered plywood
Height below the ceiling: 35 - 45 cm
Height above the ceiling: 5 - 15 cm
Width of air inlet: 14 mm
Total width: 50 mm

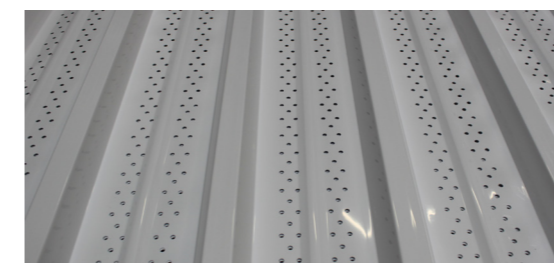
Maximum air inlet: ca. 100 m³/hour/m²
Air resistance after installation: ca. 10 Pa
Weight complete ceiling: ca. 4,5 kg/m²
with suspension construction: Standard D
Fire rating: Extra type FR: B2-DIN 4102-1

PVC SOFT-AIR

Material: PVC
Available colour: White
Weight material: ca. 1,85 kg/m²
Total weight: ca. 5,5 kg / m²
Plate length: 1-10 meter
Effective width: 103,5 cm
Plate thickness: ca. 1 mm
Maximum span: 120 cm
Fire rating: B, s1, d0 (EN13501-1)
Perforation: Ø 6 mm, ca 2,4% open

Glass wool

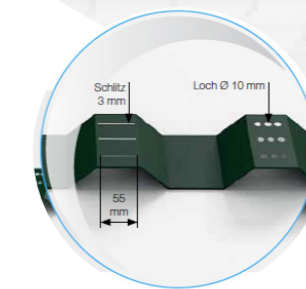
Treatment of materials: Silicones
Thin glass membrane: Glued to the bottom
Available colour: yellow
Specific mass: ca. 17,5 kg/m³
Roll length: 10 mm.
Roll width: 120 cm.
Thickness: 80 / 100 mm.
Maximum air inlet: ca. 100 m³/hour/m²
Air resistance after installation: ca. 10 Pa



ALUMINUM SOFT-AIR

Material: Aluminium
Available colour: Blank/Gray
Weight material: ca. 2 kg/m²
Total weight: ca. 5,75 kg / m²
Plate length: 1-10 meter
Effective width: 100 cm
Plate thickness: ca. 0,5 mm
Maximum span: 120 cm
Fire rating: A1 - DIN 4102
Perforation: 3 mm slots, ca 3,2% open

Treatment of materials: Silicones
Thin glass membrane: Glued to the bottom
Available colour: yellow
Specific mass: ca. 17,5 kg/m³
Roll length: 10 mm.
Roll width: 120 cm.
Thickness: 80 / 100 mm.
Maximum air inlet: ca. 100 m³/hour/m²
Air resistance after installation: ca. 10 Pa



WOOD WOOL CEMENT BOARD SOFT-AIR

Material: Wood wool cement board
Available colour: Light brown / white
Weight material: 6,4 kg/m²
Total weight: ca. 9,5 kg/m²
Plate length: 200 cm
Plate thickness: 60 cm
Maximum span: 25 mm
Fire rating: B, s1, d0 -> option in As1d0

Maximum air inlet: ca. 100 m³/hour/m²
Air resistance after installation: ca. 10 Pa





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