

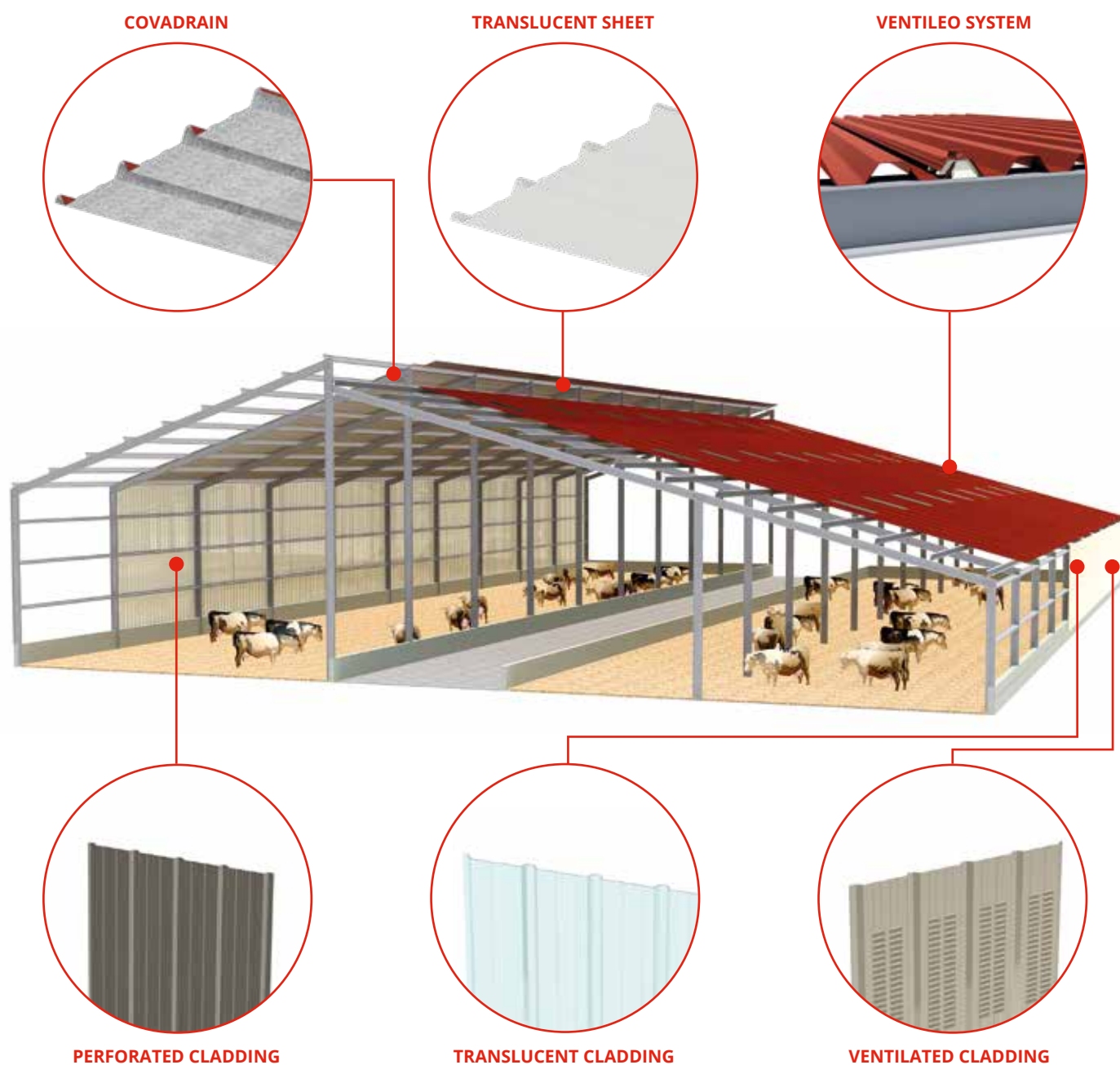
AGRICULTURAL ROOF PROFILES

AGRIBAC ROOFING SOLUTION





OUR AGRIBAC DESIGNS



Aware of the technical changes in farm buildings, BACACIER wanted to adopt a constructive approach, seeking ways to boost areas for the improvement of working conditions and animal comfort.

Therefore, our **AGRIBAC** designs have been created to meet the requirements and constraints of farm buildings, in particular in terms of ventilation and condensation control:

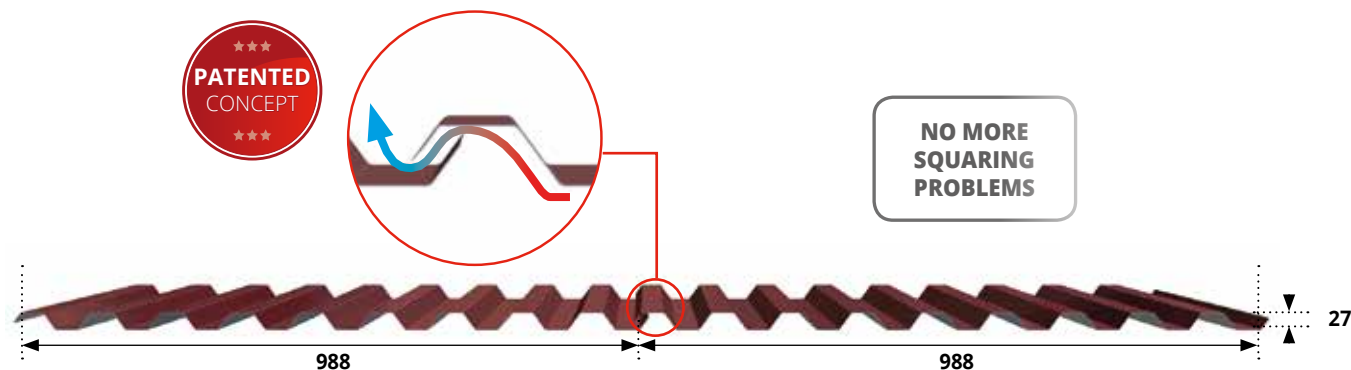
- **VENTILEO** system for excellent air flow control offering continuous ventilation
- **AGRIBAC** coating specially adapted to farm building environments.
- Felt designed to drain condensation in high and very high humidity environments
- **COVADRAIN** **SANDEO FARM** panels for thermal insulation of your buildings
- Ventilated cladding to meet the requirements of your installations.



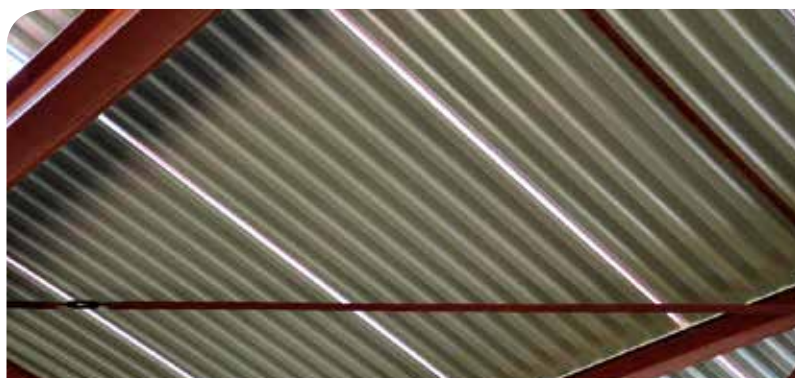
VENTILEO ROOFING SYSTEM

VENTILATED ROOF

To meet the air flow requirements of farm buildings we have developed an offset interlocking roofing system. This **patented VENTILEO** system provides continuous ventilation of roofs while reducing water infiltrations inside buildings thanks to the geometry of this specific profile.



This innovative design, ensures the **regular spacing** of roof sheets during installation, thanks to the **implementation of a polyamide wedging clip** (exclusivity **BACACIER**).



- ▶ CONTINUOUS AND REGULAR VENTILATION
- ▶ FAST INSTALLATION
- ▶ REDUCTION IN RAIN WATER INFILTRATION
- ▶ EXCELLENT PROFILE STRENGTH
- ▶ LIGHT THANKS TO THE SHADE 9002 - 35µm ON UNDERSIDE

The VENTILEO roof system is combined with inlet (cladding) and outlet openings (ventilated ridge piece). Please see the technical data sheet on www.bacacier.com.

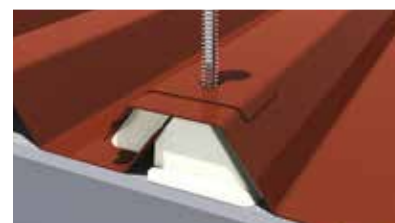
INSTALLING VENTILEO



STEP 1: FIT THE FIRST SHEET



STEP 2: ATTACHING THE WEDGING CLIP



STEP 3: LAYING THE SECOND SHEET AND ATTACHING IT TO THE STRUCTURE.

To address the specific features and requirements of the harsh atmosphere of farm buildings, we offer you an exclusive coating (**25µm on the outside and 35µm on the inside**) offering both very high resistance to corrosion and excellent durability.

We offer you an **AGRIBAC** coating available in a thickness of 75/100 in the following colours.



RAL 7022

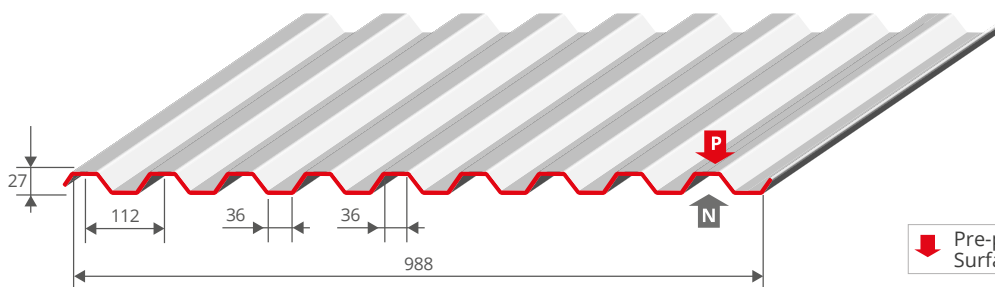


RAL 8012



RAL 5008

VENTILEO TECHNICAL DATA SHEET



Pre-painted Surface

THICKNESS mm	WEIGHT kg/m ²
0.63	6.16
0.75	7.33

STANDARD COATINGS ▶

Steel S 320 GD	Thickness mm	Standards
Galva	0.63/0.75	NF EN 10346 / NF P 34-310
Polyester 25μ/35μ	0.63/0.75	NF EN 10169 / NF P 34-301
Other coatings	on request	NF EN 10169 / NF P 34-301

**BUREAU
VERITAS**

TEST REPORT ▶ NO. 2606137/1B

Deflection tests according to NF P 34-503 of November 1995. DTU 40-35 (NF P 34-205-1 May 1997)

CALCULATION VALUES ▶ nominal thicknesses in mm

	symbol	units	0.63	0.75
Surface weight	m	kg/m ²	6.16	7.33
Load due to profile weight	g	daN/m ²	6.03	7.18

DOWNWARD LOAD ACTION		symbol	units	0.63	0.75
Moment of inertia single span		I_2	cm ⁴ /m	9.05	10.77
two equal spans		I_3	cm ⁴ /m	9.05	10.77
multiple spans		I_m	cm ⁴ /m	9.05	10.77
Bending moments at mid-span	<i>elastic syst.</i>	M_{d2T}	m.daN/m	150.9	179.64
	<i>elasto-plastic syst.</i>	M_{d3T}	m.daN/m	197.5	235.12
	on supports	M_{d3A}	m.daN/m	180	214.29
	under point load	M_c	m.daN/m	111.9	214.80
Reaction on supports		R_d	daN/m	974	1160

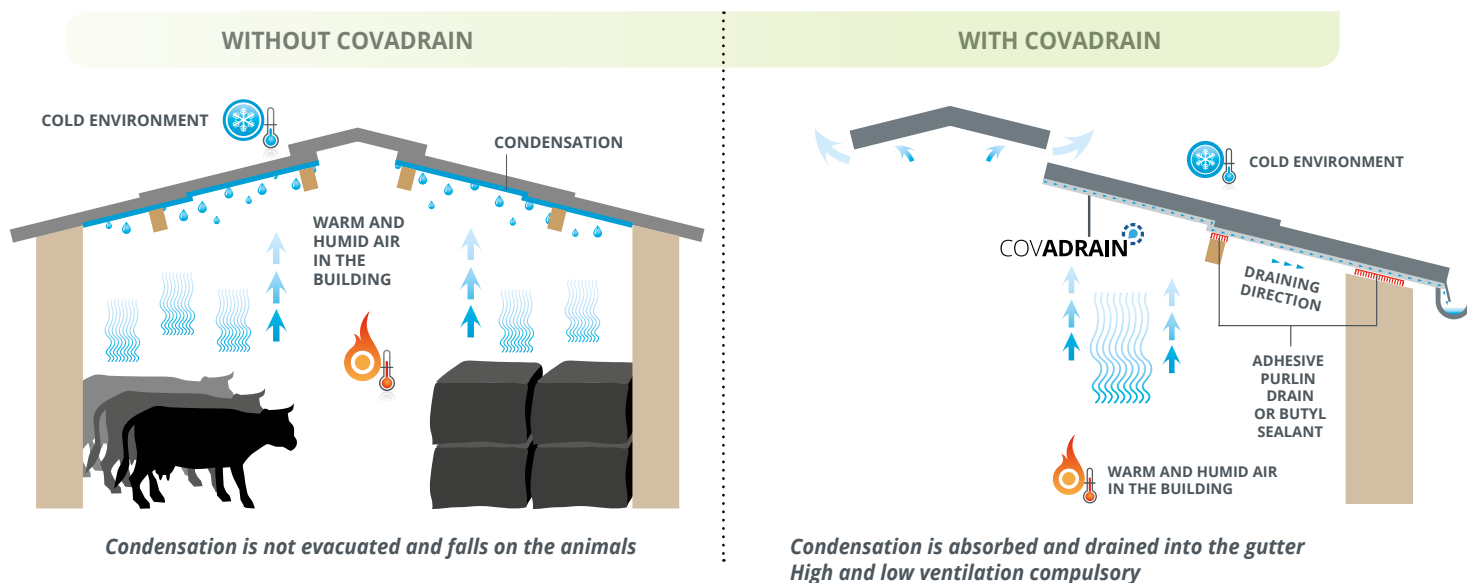
UPLIFT LOAD ACTION				RIB FIXING 5 fixings over width		PAN ATTACHMENT 5 fixings over width	
		symbol	units	0.63	0.75	0.63	0.75
Bending moments	at mid-span <i>elastic syst.</i>	M_{d2T}	m.daN/m	137.7	164	137.7	164
	at mid-span <i>elasto-plastic system</i>	M_{d3T}	m.daN/m	211.6	251.9	211.6	251.9
	on supports	M_{d3A}	m.daN/m	94.8	112.8	94.8	112.8
Breakout force at support		S_a	daN/m	700	833	700	833
Under uplift load action, the useful spans are valid if the calculated characteristic strength (Pk/m) is more than or equal to the values given in daN:				153	167	153	167

MAX. SPAN TABLE IN METRES ACCORDING TO NOMINAL LOADS ▶ f_y : 280MPa - nominal thicknesses in mm

DOWNWARD LOADS						UNWEIGHTED LIVE LOAD daN/m²	UPLIFT LOADS						
SINGLE SPAN		2 EQUAL SPANS		MULTIPLE SPANS			SINGLE SPAN		2 EQUAL SPANS		MULTIPLE SPANS		
									5 fastenings along width		5 fixings over width		
0.63	0.75	0.63	0.75	0.63	0.75		0.63	0.75	0.63	0.75	0.63	0.75	
2.45	2.55	2.55	3.50	2.55	3.20	50		2.55	3.00	2.55	3.70	2.55	3.70
2.15	2.25	2.55	3.10	2.55	2.85	75		2.55	3.00	2.55	3.30	2.55	3.30
1.95	2.10	2.55	2.80	2.45	2.60	100		2.55	3.00	2.55	2.85	2.55	2.85
1.85	1.95	2.50	2.65	2.30	2.40	125		2.45	2.70	2.30	2.50	2.30	2.50
1.75	1.85	2.35	2.50	2.15	2.30	150		2.25	2.45	2.10	2.30	2.10	2.30
1.65	1.75	2.25	2.35	2.05	2.15	175		2.05	2.25	1.95	2.10	1.95	2.10
1.60	1.65	2.15	2.25	1.95	2.10	200		1.95	2.10	1.80	1.95	1.80	1.95
1.50	1.60	2.05	2.20	1.90	2.00	225							
1.45	1.55	2.00	2.10	1.85	1.95	250							

CONDENSATION CONTROL SYSTEM

In very high humidity buildings such as livestock farming and fodder storage, we bring you a specific solution **COVADRAIN** to reduce the problems associated with condensation and thereby improve the environment of your buildings.



Applied to the underside of our pre-coated roof profiles, this product is made of intertwined polyester fibres with enough space between them to **ABSORB, HOLD AND DRAIN** condensation to the outside. In addition, this reduces impact noise (rain, hail, etc.) and provides volume acoustic correction for greater comfort. This product has an absorption capacity of at least 750g/M².

COVADRAIN Felt is available for *COVEO 3.45*, *COVEO 4.40* and *VENTILEO* products. The end lap requires an additional 100mm overlap compared with DTU 40.35.

Pitch

The minimum roof slope must be **12%**.

The length of the panels should be **limited** according to the slope as shown in the table below:

Roof slope %	12 (7°)	25 (14°)	38 (21°)
Max. length in metres	4	6	9

Accessories

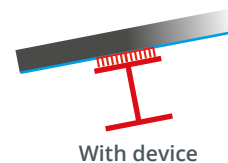
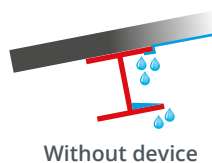
Ventilated double ridge cap



Drainage continuity

(butyl joint on silicon paper or purlin drain)

It is compulsory to provide a drainage continuity device to prevent dripping lines at the purlins. Note: adjust the length of the fixings (take the thickness of the drainage continuity device and the felt into consideration).



Discover our control solution in **page 178** the general brochure



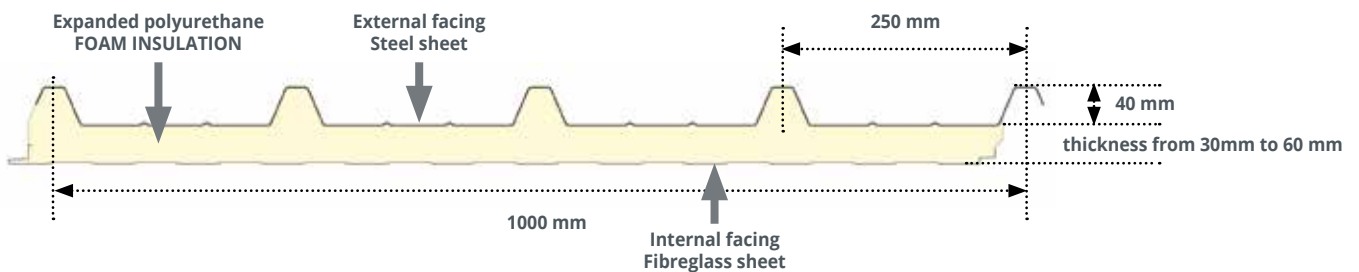
INSULATION SOLUTIONS

FIBRE GLASS ROOF SANDWICH PANELS

SANDEO TOP FARM is an insulated panel composed of an **outer metal facing** and a **specific internal fibre glass face**.



- ▶ IDEAL AND COST-EFFECTIVE SOLUTION WITH SUPERIOR THERMAL PERFORMANCE.
- ▶ EXCELLENT RESISTANCE TO AGGRESSIVE SUBSTANCES: AMMONIA, UREA, NITRIC ACID, ETC.
- ▶ ANTI FUNGAL
- ▶ BRIGHT (WHITE UNDERSIDE)
- ▶ COLOURS AVAILABLE ON REQUEST



TESTIMONIALS

FITTERS TRUST US:

"Specialist in the construction of farm buildings for decades, we have chosen the **VENTILEO** system of **BACACIER** for:

- its technical performances in terms of continuous ventilation,
- its simple and fast installation thanks to wedging clips ensures the sheets are evenly spaced,
- the rigidity of the sheets imparted by a strong and attractive profile. "



GAEC LABILLE work site – St-FORGEOT (71) Carried out by DEVELET Frères – St-GILLES (71)

This is what farmers are telling us:

"The excellent living standards of herds have a very positive effect on operational profitability: milk production increases considerably and animals are ill far less often, thereby significantly reducing health-related costs. "

Caroline Bevillard - GAEC des Bessieres (63)



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