ENGLISH VERSION

IGLÙ® ventilatedroof

www.daliform.com

Disposable formwork for sloped or flat ventilated roofs

daliform GROUP
Building Innovation © Creatori dell'Iglù®

MADE IN ITALY

LEGEND:

Air, moisture

Radon

Ventilation

Certifications

SWITCHBOARD
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IGLU' ventilatedroof

An increasingly important topic over the past few years has been the excessive amount of energy used by buildings, a use that can be considerably reduced through roof ventilation achieved by using **Iglu'® ventilated roof.**
By placing **Iglu'® ventilated roof** formworks on the building's horizontal roof, an air cavity is created that insulates from the heat in the summer and from the cold in the winter, resulting in savings in indoor air conditioning.

The accumulation of heat in the summer and low winter temperatures with the formation of condensation and mold, are phenomena that can find a valid solution with the adoption of a ventilated roof with **Iglu'® ventilated roof**, a system that promotes continuous air flow inside the under-covering.

Advantages

Cutaway of a flat roof ventilated with Iglu'® ventilated roof

The realization of a ventilated roof (flat and pitched roof) with **Iglu'® ventilated roof** provides greater living comfort both in winter and summer, as well as improving the conservation of the materials forming the roof.

- In the winter months, closing the ventilation with a simple register, it can isolate from the cold outside.
- In the summer months it can reduce heating of the spaces below thanks to ventilation.
- The ventilation also avoids moisture stagnation below the roof surface and thus prevents the formation of mold or other substances which may lead to a degradation of the structure.
- Significant savings on energy consumption (heating/cooling).

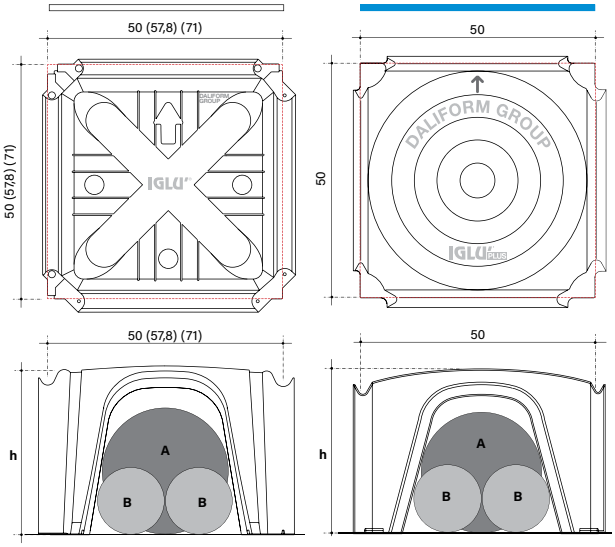
Cutaway of a pitched roof ventilated with Iglu'® ventilated roof

The height of the interspace is to be determined in function of the technical characteristics of the roof, such as the type of coverage, the length and slope of the pitch and the local weather conditions.

Tests have been performed on roof ventilation using **Iglu'® ventilated roof**, in collaboration with the University of Malta, which have provided very valid results, combining a summer ventilation system with the closure of air inlets in winter, in order to create an insulating cavity.

In the winter, a condensation vacuum tied to specific registers can be prepared to avoid excess moisture inside the cavity.

Technical details



	H cm	4	4	5
Useful dimensions*	cm	50x50	50x50	58x58
Height **h** tunnel clearance	h cm	3	2,2	1,5
Pipe **A** max diameter	1 x Ø cm	3	2,2	1,4
Pipes **B** max diameter	2 x Ø cm	3	2,2	-
Quantity of concrete to the crown**	m^3/m^2	0,004	0,006	0,014
Weight of each unit	kg	0,865	0,735	1,136
Pallet dimensions	a x b x h	110x110x108	110x110x250	120x120x256
	kg	359	454	1.104
	Units	400	600	960
	Sqm	100	150	320

Depending on the different heights, the shape of the formwork may differ from those depicted.

The material does not fear the bad weather and therefore it can be stored outside.
* In consideration of the recycled material, it is permitted a size tolerance of 2.5%.
** The volume may vary depending on the pouring condition and the tolerance of the material.

Applications

Pitched roof ventilated with Iglu® ventilated roof

The roof is a very important part of each building to ensure an effective response to environmental factors such as temperature fluctuations and weather.
The use of **Iglu® ventilated roof** in **residential, commercial, industrial or public buildings** is essential to create:

- **comfortable attics** with the appropriate hygrothermal characteristics: the creation of an air gap of constant thickness is a brilliant design choice, compatible with any pitched roof in reinforced concrete.

- **flat roof terraces** so up to allow full exploitation of the surface of the built space.

Flat roofs ventilated with Iglu® ventilated roof and used as a terrace (accessible)

Flat roofs ventilated with Iglu® ventilated roof

6	8	8	9	10	12	12	13	14	16	16
50x50	50x50	50x50	58x58	50x50	50x50	50x50	50x50	50x50	50x50	50x50
3,9	4,5	5,9	5,3	5,8	8	7,7	9,4	9,8	11	11,8
3,9	4,5	5,9	4,7	5,8	8	7,7	9,0	9,8	11	11,8
3,9	4,5	5,9	2,5	5,5	8	7,5	8,5	9,4	9,5	11
0,007	0,012	0,010	0,018	0,013	0,016	0,021	0,021	0,028	0,034	0,030
0,757	1,460	0,789	1,190	0,833	1,334	0,865	1,287	0,963	1,536	1,275
110x110x253	110x110x210	110x110x254	120x120x262	110x110x246	110x110x226	110x110x249	110x110x256	110x110x248	110x110x244	110x110x220
467	597	487	1.199	496	546	515	554	456	474	420
600	400	600	996	580	400	580	420	460	300	320
150	100	150	332	145	100	145	105	115	75	80

The Daliform Group technical office is available to our customers (designers, companies, resellers, commissioning entities) for planning, coplanning, feasibility studies, comparative and cost analyses. The technical consultancy is only valid for the Daliform Group construction systems.
To contact the technical office: Ph. +39 0422 2083 - tecnico@daliform.com
To obtain updated technical cards, support material, new photos and case studies, go to www.daliform.com

Specifications

PITCHED OR FLAT ROOF AND/OR COVERING TERRACES VENTILATED with IGLU'® ventilated roof

Supply and installation of **IGLU'® ventilated roof** disposable modular formworks in recycled polypropylene, consisting of flat or convex dome on four supports, plan dimensions of 50x50 cm from the axis of the gorges, equipped with Product Certificate and certified by an authorized Institute for a minimum tensile strength of 150 kg applied on the top of the central dome of the formwork with a presser of 8x8 cm, to be achieved in the following ways:

-installation of the elements with equally oriented **IGLU'® ventilated roof** writing and arrow and legible text (arrow outward the operator) from the left corner to the right, making sure to overlap them on the previous one by edge endorsement to the left, when the line is complete start again (from left as you write) with the same described methodology but being careful to overlap the edge endorsement both on the left and on the previously laid line.

The formwork **IGLU'® ventilated roof**, must be produced in "**ALAPLEN® CP30**", must not release polluting substances, have an Environmental Compatibility Certification and be produced by a Company Certified according to International Standards **UNI EN ISO 9001** (Quality), **UNI EN ISO 14001** (Environment); **UNI EN ISO 45001** (Safety) and **SA 8000** (Social responsibility).

The company that supplies the **IGLU'® ventilated roof** formworks must exhibit technical sheet and safety sheet for the product and for "**ALAPLEN® CP30**" grain texture and must also exhibit the product certificate approved by an EOTA member agency (European Organisation for Technical Approvals).

Ridge height of **IGLU'® ventilated roof** cm_____

By the square meter €_____

PITCHED OR FLAT ROOF AND/OR COVERING TERRACES VENTILATED with IGLU'® PLUS ventilated roof

Supply and installation of **IGLU'® PLUS ventilated roof** disposable modular formworks in recycled polypropylene, consisting of flat or convex dome on four supports, plan dimensions of 50x50 cm from the axis of the gorges, equipped with Product Certificate and certified by an authorized Institute for a minimum tensile strength of 200 kg applied on the top of the central dome of the formwork with a presser of 8x8 cm, to be achieved in the following ways:

-installation of the elements with equally oriented **IGLU'® PLUS ventilated roof** writing and arrow and legible text (arrow outward the operator) from the left corner to the right, making sure to overlap them on the previous one by edge endorsement to the left, when the line is complete start again (from left as you write) with the same described methodology but being careful to overlap the edge endorsement both on the left and on the previously laid line.

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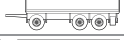
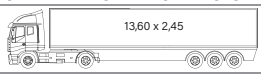
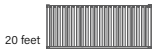
Ridge height of **IGLU'® PLUS ventilated roof** cm_____

By the square meter €_____

Logistics - pallet capacity

MEANS OF TRANSPORT	NO. PALLET	
Tractor (8,20/9,60x2,45)	14/16	
Trailer (6,20x2,45)	10	
Tractor + Trailer type "BIG" (8,40+7,20x2,45)	14+12	
Semi-trailer (13,60x2,45)	24	
20 feet container	10*	
40 feet container	22*	

* the m^2 per pallet can vary based on the type of container.

The images are merely indicative, by way of example. The information contained in this catalogue could be changed. Please request updated informations from DALIFORM GROUP, which reserves the right to make changes at any moment without notice. In consideration of recycled material, it is specified that there are tolerance margins caused by environmental factors.

www.daliform.com

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Made in Italy

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Certified Management System UNI EN ISO 9001, UNI EN ISO 14001, UNI EN ISO 45001, SA 8000

Partner of GBC Italia

Rating di legalità: ★★+

PRODOTTO CONFORME
ai criteri di
COMPATIBILITÀ AMBIENTALE
Attestato rilasciato dal Dipartimento ABC – Politecnico di Milano