



www.daliform.com



**Permanent formwork
for sloped or flat
ventilated roofs**



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.



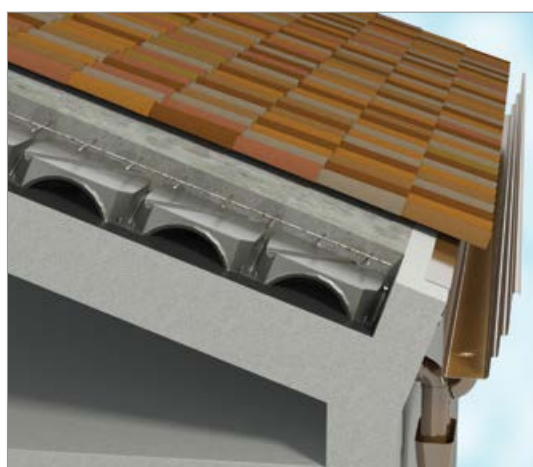
Advantages



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).



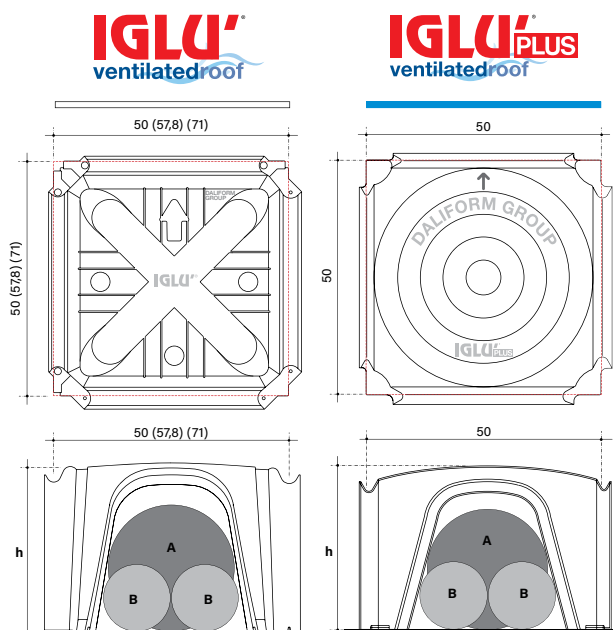
Cutaway of a pitched roof ventilated with Iglu[®] ventilated roof

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

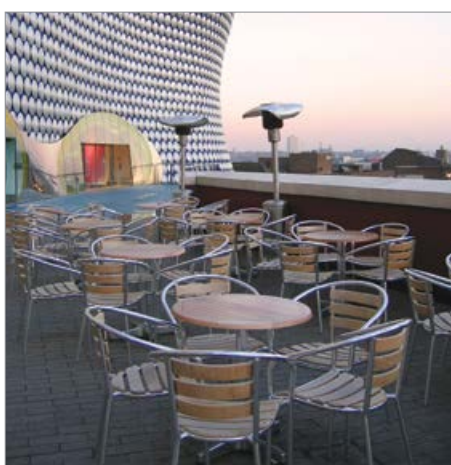
The roof is a very important part of each building to ensure an effective response to environmental factors such as temperature fluctuations and weather.

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.

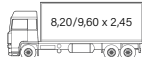
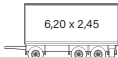




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Ridge height of IGLU® PLUS ventilated roof cm _____

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 m² 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.



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DG_IGPROOF - Rev. 07_06/2024

Made in Italy

dali*form*
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Building Innovation © Creatori dell'Iglù®



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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
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plastica
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