VIÊT Engineering Co., Ltd.

PUREVER INDUSTRIES

Protecting Life

Purever is an European industrial group, founded in 2001, with subsidiaries in France, Portugal, Spain, UK, Ireland, USA and Colombia.

Purever has commercial presence in more than **50 countries in all Continents**.

The company employs over **800 people** from 10 different nationalities, working at **9 factories and 15 offices around the globe**, with a track record of sustained growth.

Purever addresses **key worldwide problems**, providing valuable products & solutions for Life Science & Hospital, Agrofood industry & logistics, Catering, Supermarkets & Food Retail and Modular Building.

VIÊT Engineering Co., Ltd

PUREVER INDUSTRIES

WHAT PUREVER OFFERS.

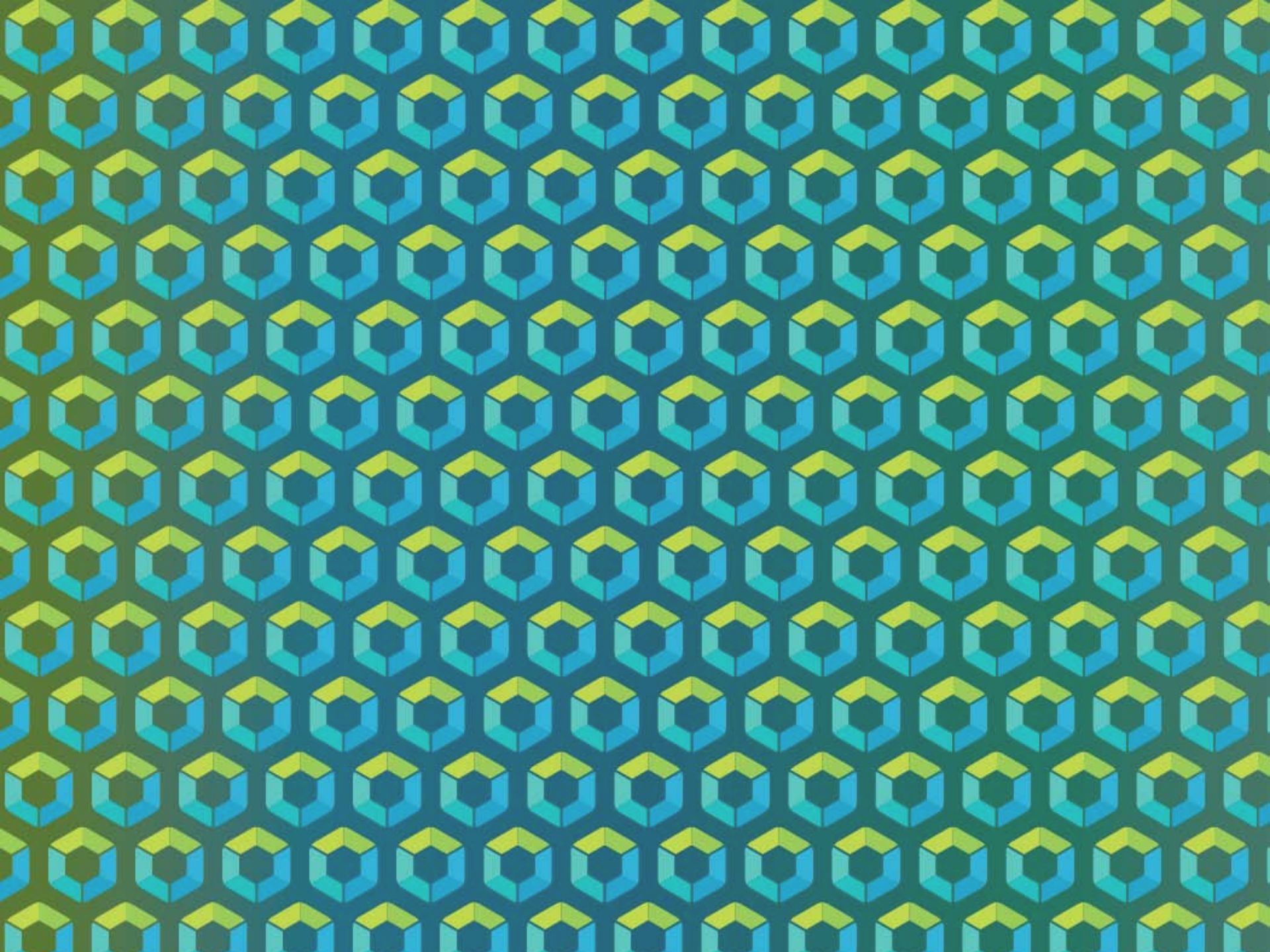
Robust **insulated products and quality economical solutions for every step of the food chain** contributing to reduce food losses and assuring the preparation, conservation and distribution of food in hygienical and efficient conditions;

Certified clean rooms and turn-key projects for pharmaceuticals, labs and all industries requiring special protected work environments, modular health centers and hospitals, mobile medical solutions for remote areas, comprising innovative answers that improve health conditions in developing regions;

Professional Catering equipment and turn-key solutions for leisure & tourism: restaurants, hotels and all sort of supermarket & food retail shops;

Innovative modular solutions providing an answer to needs for better, easy-to-build and economic housing for developing countries, youth first homes in developed countries, schools, rescue zones, etc..

VIÊT Engineering Co., Ltd.



PUREVER INDUSTRIES

Purever Industries_*Protecting Life.*

We work to shape Purever to be prepared to compete in a changing World,
offering innovative products and integrated solutions,
capable to generate value to our customers.

A Group centered in our core industrial know how,
with multimarket diversified applications,
offering contributive solutions to improve standards of living.

We have the ambition to improve profitability with long-term growth,
mobilizing the great potential of our multicultural people.

We are a company permanently searching for new opportunities
and demanding customers.

Investing in new technologies and setting up collaborative and long-lasting
partnerships that contribute for a better Tomorrow.

VIÊT Engineering Co., Ltd.

PUREVER INDUSTRIES

Industrial DNA.

At Purever we believe in Industry
as generator of Wealth & Employment. **It's our DNA**.

We believe in **Certified factories**,
constantly innovating and **competing at a Global scale**.

We produce **state-of-the-art products** complying
with the most demanding international standards & norms.

We invest in **people, our most valuable Asset**
and in their ability to create products
and engineer innovative solutions.

VIÊT Engineering Co., Ltd.

PUREVER INDUSTRIES

Our business is all about People.

Our products are great but wouldn't exist without the people behind them.
Their conception, the manufacturing and its distribution.
With **passion**, **expertise** and **teamwork**.

Purever wouldn't exist without the People that trust us,
that chose us as reliable supplier and partner. **We thank you**.

People that rely on us are the drive for our existence.
For them we try to have the best People, **reactive**, **adaptive**, **connected**.

Purever encourages a positive culture, dynamic, open.
We respect d**iversity**, we stimulate competency and ambition.

We are leaders because of the hundreds of people that everyday
give their best and of the thousands that, everyday and anywhere,
trust Purever, our people and our solutions.

VIÊT Engineering Co., Ltd.

PUREVER INDUSTRIES

We are Gamechangers.

The World moves faster than ever. New disruptive technologies have appeared and changed the World forever.

As a global leader, Purever is engaged in a **digital transformation** to lead by innovation and react faster to meet customer expectations.

We are committed with the development of a new generation of products, eco-sustainable, modular, easy-to-use, interactive with customer applications.

Our aim is to put our technologies, our industrial know-how, and project expertise at the service of the customers.

Products shall be whatever the customer needs.
Modular, interactive and innovative. Digital.

In a changing world, we do not close ourselves in a "market", but rather pretend to be listening and to understand in which new applications and needs our technologies can be useful and create economic and social value.

VIET Engineering Co., Ltd.

The Markets.


PUREVER
The Industries
Life Science & Hospitals
Agro-food Industry & Logistics
Hospitality, Catering & Food Retail
Modular Building

VIỆT Engineering Co., Ltd.

PUREVER INDUSTRIES

VIÊT Engineering Co., Ltd.

PUREVER INDUSTRIES

Life Science & Hospitals

World Leader in First class modular GMP cleanroom systems.

- Pharmaceutical
- Biotechnology
- Healthcare
- Medical device
- Biocontainment
- High Tech
- Labs
- Electronics
- Industry

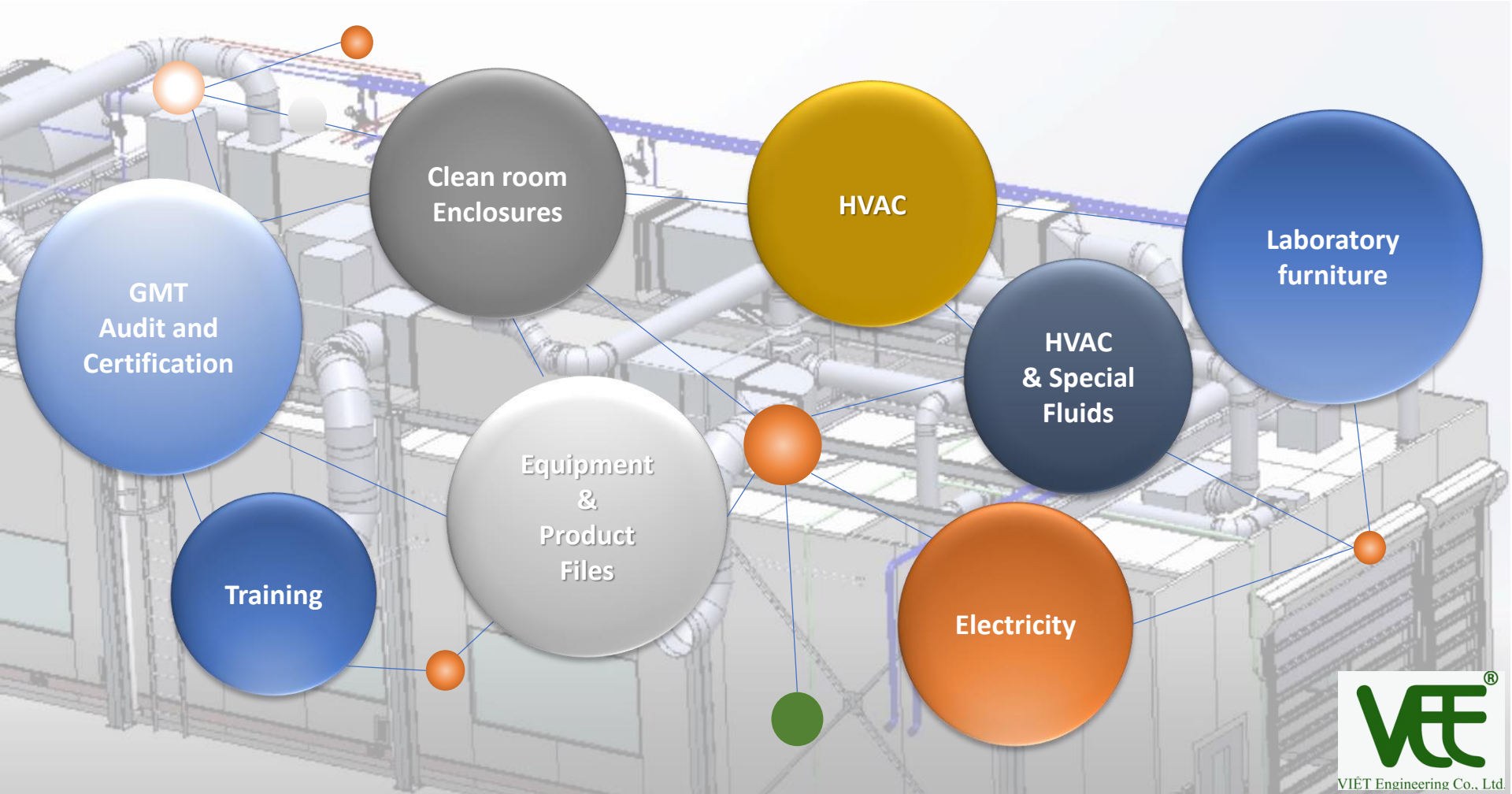
DAGARD

PUREVER INDUSTRIES

Life Science & Hospitals

LAB SCIENCE

Turn-key Projects



VIỆT Engineering Co., Ltd.

PUREVER INDUSTRIES

Life Science & Hospitals

Hospital Systems & Solutions.

- Operating theatres
- Intensive care units
- Recovery rooms
- Central sterilizations
- Analysis laboratories

DAGARD

VÊT Engineering Co., Ltd.

PUREVER INDUSTRIES

Life Science & Hospitals

VIỆT Engineering Co., Ltd.

PUREVER INDUSTRIES

Life Science & Hospitals

Purever Life Division

offers project solutions for hospitals,

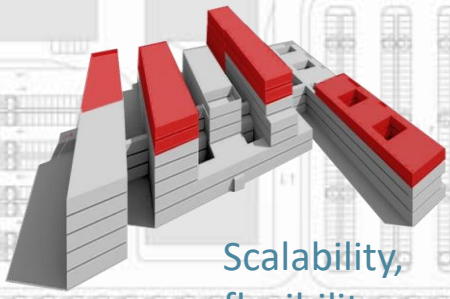
health centers & special facilities

from conception, innovative solutions,

project and implementation:

major plan, architecture, interior design,

construction, equipment and training of staff.



Scalability,
flexibility
and versatility

VIET Engineering Co., Ltd.

Purever Life

PUREVER INDUSTRIES

VIỆT Engineering Co., Ltd

Agro-food Industry & Logistics

VIET Engineering Co., Ltd

PUREVER INDUSTRIES

Agro-food Industry & Logistics

Purever companies are widely present in the supply of insulated products
(doors, panels, metallic structure and refrigeration solutions)
for factories, warehouses, cold storage, logistics, supermarkets, etc.

- **2,3 million m2 of insulated refrigeration panels, top 3 European supplier**
- **40,000 insulated doors, European market leader**

CSTB le futur en construction · CSIC · AFITI LICOF · CTF · FM APPROVED · CE · Applus+

PUREVER INSULATION

PORTISO ISOTHERMAL & INDUSTRIAL DOORS

DAGARD Environnements sur mesure

VIÊT Engineering Co., Ltd.

PUREVER INDUSTRIES

Agro-food Industry & Logistics

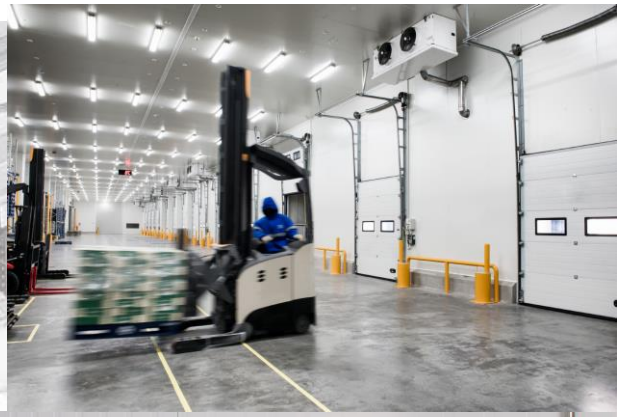
PUREVER INSULATION

Turn-key Projects

VIET Engineering Co., Ltd.

Agro-food Industry & Logistics

PUREVER INDUSTRIES

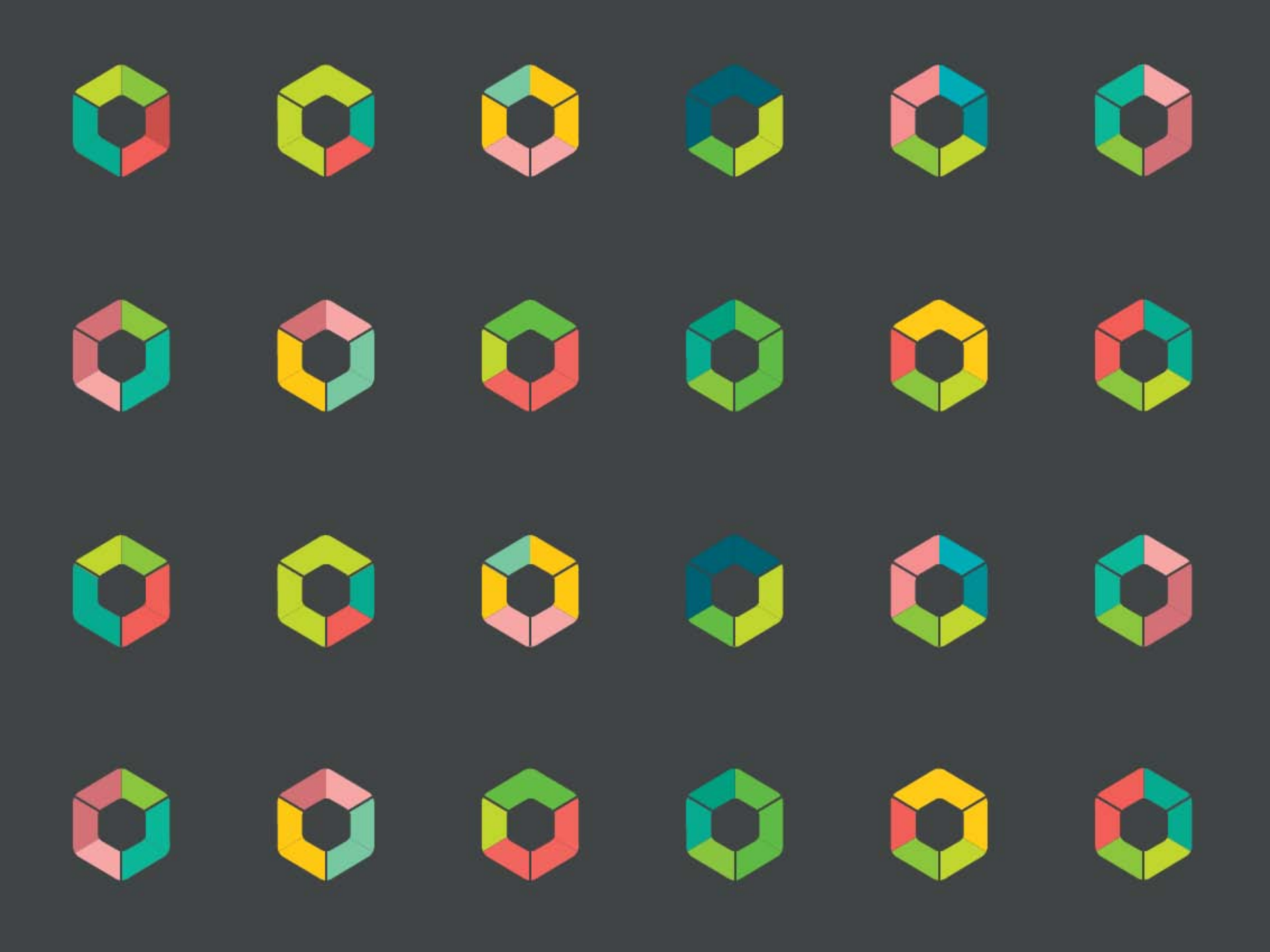


VIÊT Engineering Co., Ltd.

PUREVER INDUSTRIES

Agro-food Industry & Logistics

VIET Engineering Co., Ltd.



VIỆT Engineering Co., Ltd

Hospitality, Catering & Food Retail

PUREVER INDUSTRIES

COLDKIT

VIET Engineering Co., Ltd.

PUREVER INDUSTRIES

Hospitality,
Catering
& Food Retail

COLDKIT *Caring for what you care for*

We work with top professional installers and distributors.

Purever has high quality turn-key solutions with relevant international projects for Hotels, Central kitchens, fast food franchises, restaurants, bars, schools and company's canteens.

Purever factories manufactures a wide range of the equipment required for professional kitchens and food stores.

VIET Engineering Co., Ltd.

PUREVER INDUSTRIES

Hospitality,
Catering
& Food Retail

COLDKIT

Purever has prestigious references in key hotel international chains as well as in professional kitchens and schools

VIET Engineering Co., Ltd.

PUREVER INDUSTRIES

Hospitality, Catering & Food Retail

COLDKIT

Caring for what you care for

Purever is also a key player for **supermarkets and food shop chains** supplying cold storage equipment, insulated panels, refrigeration doors, food displays, shelving and stainless-steel furniture.

VIET Engineering Co., Ltd.

Hospitality, Catering & Food Retail

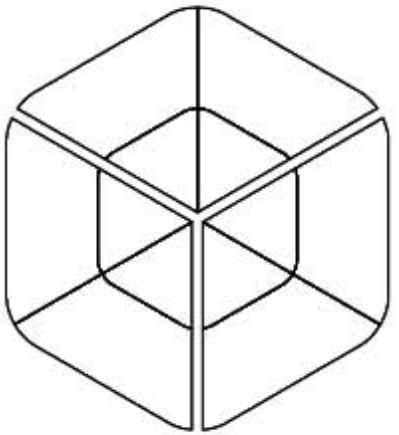
PUREVER INDUSTRIES

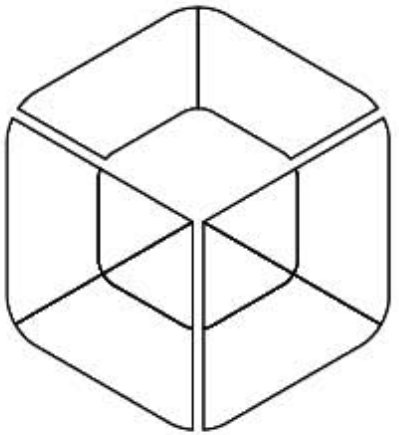
Sophisticated ambiances

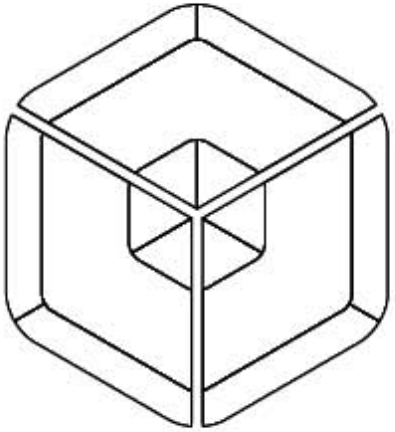
Wide range of solutions and materials

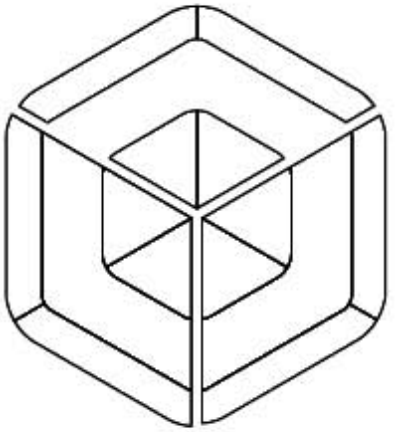
COLDKIT *Caring for what you care for*

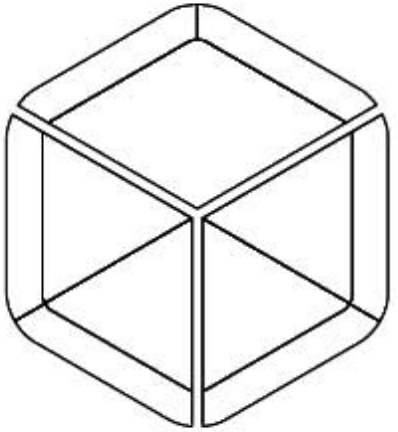
VIET Engineering Co., Ltd.











PUREVER INDUSTRIES

VIET Engineering Co., Ltd.


Modular
Building
VIỆT Engineering Co., Ltd

PUREVER INDUSTRIES

Modular Building

PURE BLOK™
Modular building system

An innovative modular construction system, eco-efficient, for all types of residential or social construction, schools, restaurants, health centres, etc. Large scale execution that allows a fast and clean construction, with controlled costs.

Pureblok's system integrates new advances in modular construction to evolve to more sustainable solutions, eco-efficient and with no contaminating materials.

VIET Engineering Co., Ltd.

Modular Building

PUREBLOK™
Modular building system

PUREVER INDUSTRIES

Pureblok's modules and components are designed and manufactured to last,
with a specific application for an optimization of environmental impact, structural resistance, thermal efficiency and acoustic performance.

VIÊT Engineering Co., Ltd.

Being an offsite industrialized building system, Pureblok is a panelized system, based on modular elements that are assembled in the construction site, including windows and doors, reducing transportation costs.

PUREVER INDUSTRIES

Modular Building

PURE BLOK™
Modular building system

A “Fit-your-choice”- type of construction suitable to almost any design or architectural project, from classic to modern, while allowing repeatable units in volume numbers featuring integrated, adaptable and sustainable design and delivered in a time-cost-effective way.

VIÊT Engineering Co., Ltd.

Modular Building

PUREVER INDUSTRIES

PURE BLOK™
Modular building system

Pureblok building system is also adapted to social housing
Our social modular solutions have been built in Brazil, Haiti, Nicaragua, Angola, Mozambique and many others.

VIÊT Engineering Co., Ltd.

A scalable model, with an initial layout that can be customized to each project.

- Different sizes and equipment to meet any requirements.
- A solution for the public sector, for a fast development of public services, anywhere and quickly.
- A quick response to urgent housing needs, such as natural disasters (floods, earthquakes, torrential rain…) or for underprivileged areas.

PUREVER INDUSTRIES

Modular Building

PURE BLOK™
Modular building system

Pureblok building system is also adapted to a wide range of public and private buildings

VIET Engineering Co., Ltd.


Housing


Schools


Offices

Healthcare sector


Life bases


Industrial and logistics

PUREVER INDUSTRIES

Modular Building

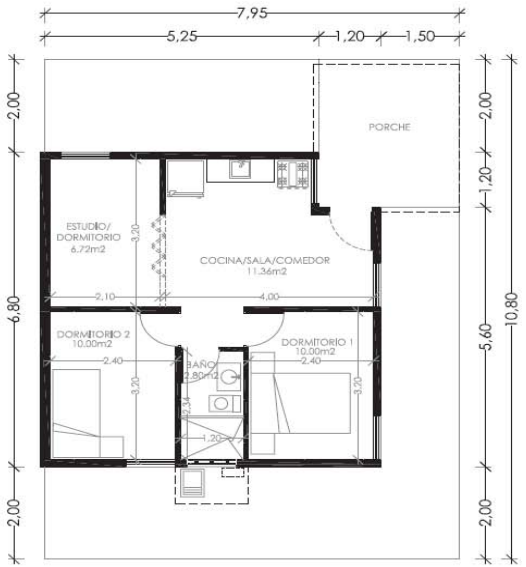
PURE BLOK™
Modular building system

Modular Building Typologies

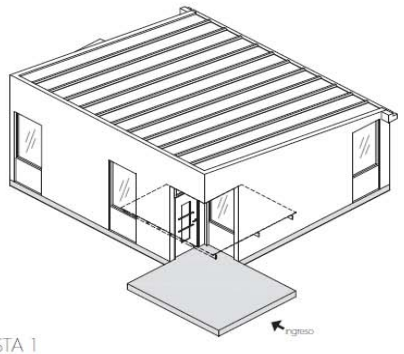
Type A Social Housing

Size :42,4 m2
Can be increased in dimension by +-
Volumes of 3,5 m2

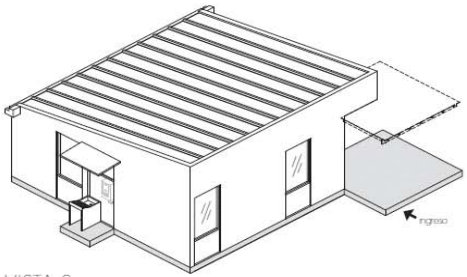
A1



PLANTA BAJA



VISTA 1



VISTA 2

VIVIENDA
42.42m²

VIET Engineering Co., Ltd.

Modular Building

PUREBLOK™
Modular building system

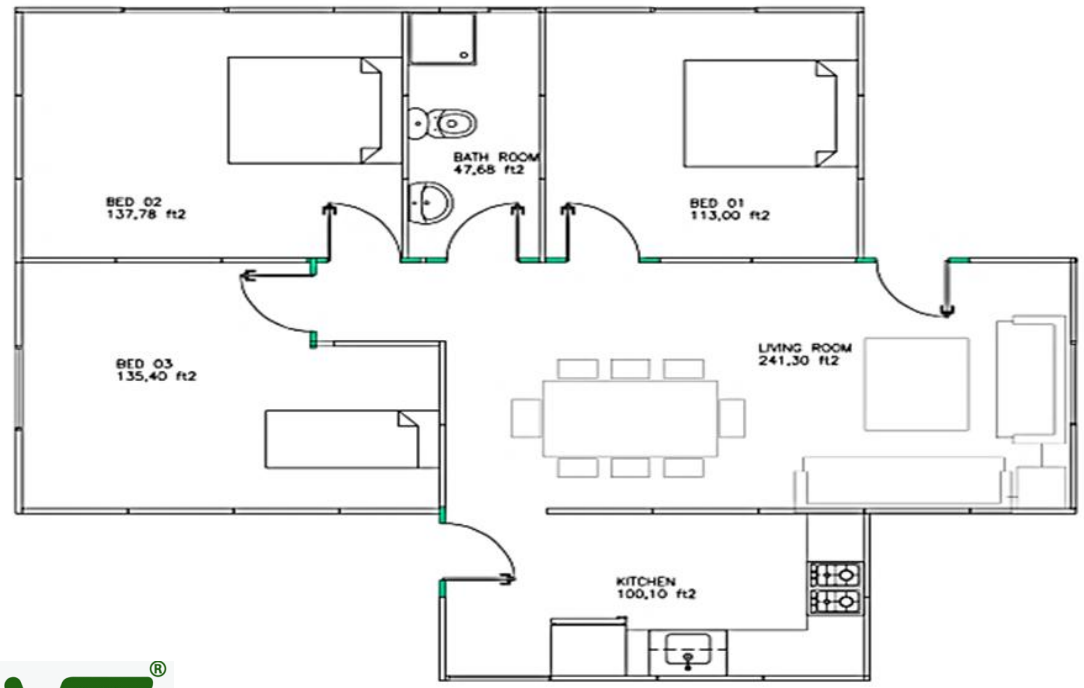
PUREVER INDUSTRIES

Modular Building Typologies

Type B Social Housing

Size from : 50,5 m2
Up to :76,5 m2

ELEVATION B



DESCRIPTION

- 76 m².
- Three bedrooms.
- Dining room.
- Equipped separate kitchen.
- Bathroom.

Elevation

VIET Engineering Co., Ltd.

Modular Building

VIET Engineering Co., Ltd.

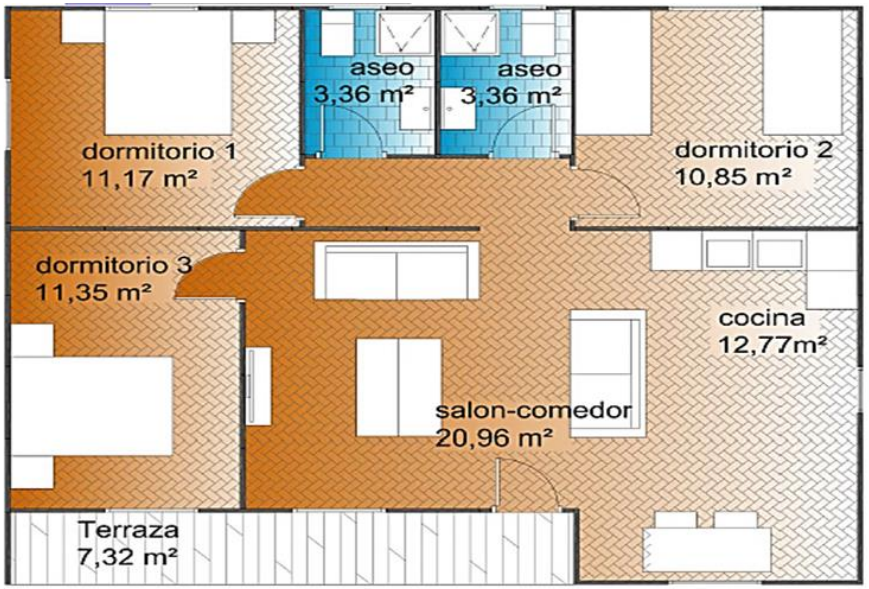
PUREVER INDUSTRIES

Modular Building Typologies

Type C Social Housing

Size approximate: 84 m2

PURE BLOK™
Modular building system



DESCRIPCIÓN

VIVIENDA SOCIAL BÁSICA T3 – 84 m2

- 3 habitaciones
- 1 cocina totalmente equipada
- 1 sala - comedor
- 2 baños totalmente equipados
- 1 porche cubierto

Desde 21.670eur

DESCRIPCIÓN DEL KIT DE VIVIENDA

- Paneles verticales de poliuretano de alta densidad y baja conductividad térmica, de espesor 60mm
- Puertas interiores de melamina blanca
- Cubierta de chapa metálica de 0,5mm de espesor
- Ventanas con carpintería de aluminio y cristal 4|6|4
- Mobiliario de cocina de melamina con fregadero, grifo y termo de 50l incluidos
- Baños completos con saneamiento en PVC, distribución en PEX y equipamiento en porcelana sanitaria. Inodoro con tapa, lavabo con pie y plato de ducha incluidos.

Front View

PUREVER INDUSTRIES

Modular Building

PURE BLOK™
Modular building system

Modular Building Turnkey services

VIET Engineering Co., Ltd.

TURNKEY SERVICES

- HOUSE BUILDING
- PROJECT DEVELOPMENT
- ONSITE ASSEMBLY

ADDED-VALUE PRODUCTS AND SERVICES

- LEISURE (HOTELS, SPORTS CENTRES, SOCIAL AREAS, ETC.)
- COMMERCIAL PREMISES (SHOPS, RESTAURANTS, WAREHOUSES...)
- NON-RESIDENTIAL AREAS (SCHOOLS, HOSPITALS...)
- URBAN PLANNING AND SERVICES

Modular Building

PUREBLOK™
Modular building system

PUREVER INDUSTRIES

Modular Building - Certifications

VIET Engineering Co., Ltd.

The sandwich panels used in the Pureblok construction system are the ideal solution for substituting traditional building materials.

Their density and excellent energy efficiency are the result of years of R&D and permit a high level of energy saving. These panels are made entirely in Europe in the Purever group's own factories, which have ISO9001 quality certification.

These panels have been tested, both nationally and internationally, to assess their excellent characteristics. They have received the necessary certification in every aspect of the standard and have proved to have the necessary technical characteristics in seismic, wind and fire studies.

Pureblok panels have been certified by the following companies and institutions.

Applus+ CSTB le futur en construction CE CSIC AFITI LICOF FM APPROVED CTF centro técnico del fuego

Modular Building

PURE BLOK™
Modular building system

VIET Engineering Co., Ltd.

PUREVER INDUSTRIES

Modular Building – Our achieved projects

HAITI (2010-2012) – More than 3.000 houses and buildings for earthquake rebuild

Modular Building

PUREVER INDUSTRIES

Modular Building – Our achieved projects

PURE BLOK™
Modular building system

VIÊT Engineering Co., Ltd.

Nicaragua (2012-2016) – More than 250 houses in different projects

Modular Building

PUREVER INDUSTRIES

Modular Building – Our achieved projects

PURE BLOK™
Modular building system

FRANCE (2017) – Residential condominium

VIET Engineering Co., Ltd.

Modular Building

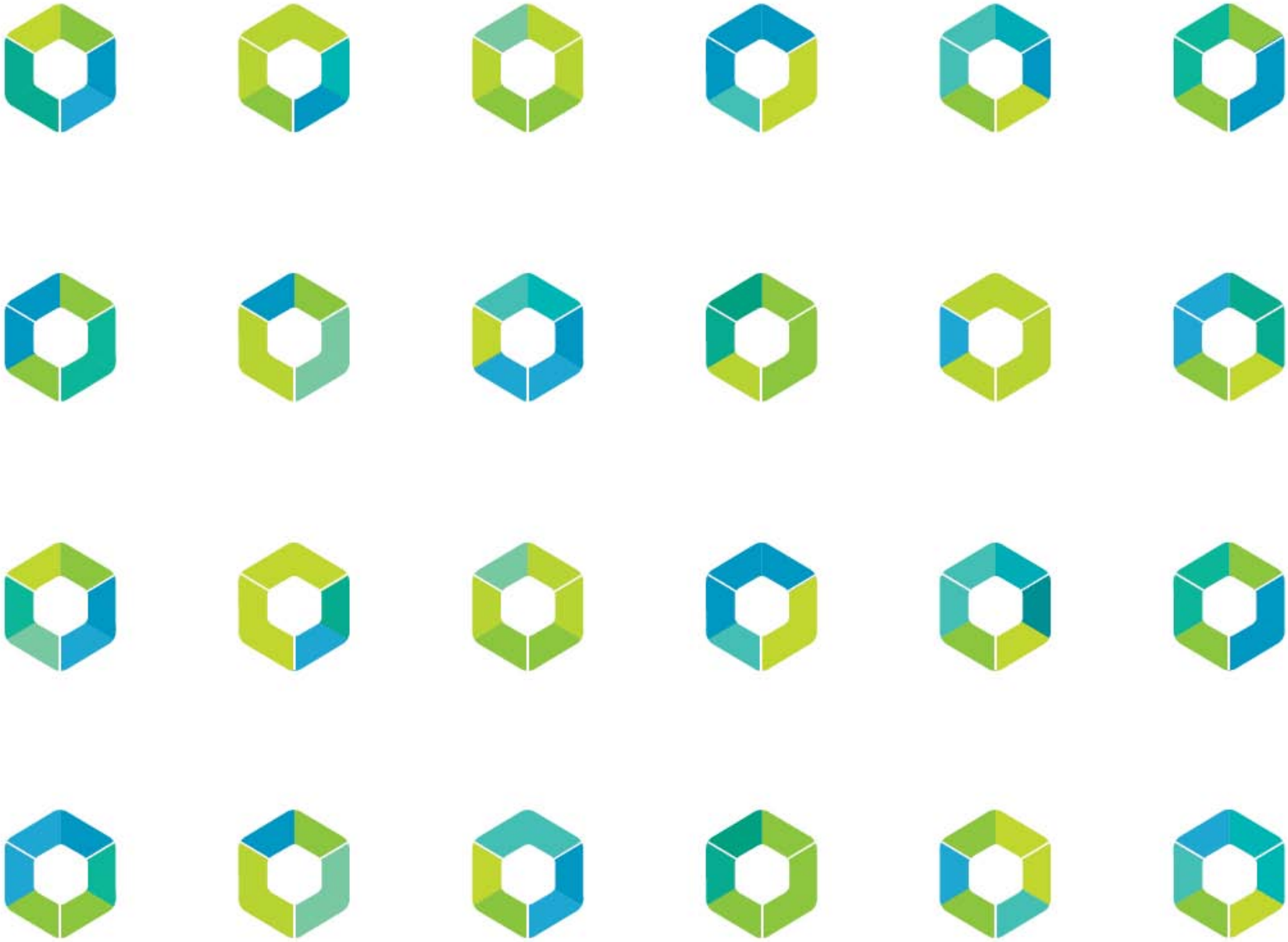
PUREVER INDUSTRIES

Modular Building – Our achieved projects

PURE BLOK™
Modular building system

VIÊT Engineering Co., Ltd.

SPAIN (2015-2017) – several houses premium



Purever Brands.

DAGARD

dagard.com

COLDKIT

coldkit.com

PUREVER TECH

purevertech.net

PUREVER INSULATION

pureverinsulation.com

PURE BLOK™

Modular building system

Purever Life

PORTISO

portiso.com

coolblok

coolblok.net

LabSCIENCE

STERNBLU

SOLUÇÕES GLOBAIS PARA HOTELARIA

sternblu.pt

purever.com

VIÊT Engineering Co., Ltd.

YOUR PARTNER IN ASIA
VIET ENGINEERING CO LTD
INFO@VEEVN.COM – WWW.VEEVN.COM

Protecting Life

PUREVER INDUSTRIES

2006-10-20 bö

National Translations of Euroclasses for Reaction to Fire

(Based om CEPMC doc FWG 04/035. Updated within FSUW network 2006)

1. Main class (except floorings)

Country	National Classification	EU Classification	Implementation	Notes	Check 2006
Austria	Class A	A1-A2-part of B	Reaction to fire classes (incl smoke and droplets) adopted, but not implemented yet.	Önorm 3806 updated and issued 2005-07-01. No direct relation between national and EU classes	Yes
	Class B1	B-C-D-part of E			
	Class B2	Part of C-D-E			
	Class B3	F			
Belgium	A0	A2-s1	No decision is taken by the Belgian ministry	It seems as Belgium will follow the 'German approach' and not make a translation. * It is under discussion whether the general requirement of E/E-d2 will not be introduced.	Yes
	A1	B-s3 or C-s2			
	A2	C-s3			
	A3	D-s3			
	A4	F *			
Czech Republic	A	A1, A2	No implementation yet	EC decision adopted July 2002 ČSN EN 13501-1 and ČSN 73 0810	Yes
	B	B			
	C1	C			
	C2	D			
	C3	E or F			
Denmark	Non-combustible material	Material class A2-s1,d0	Change in building regulations 1 June 2004		Yes
	Class A material	Material class B-s1,d0			
	Class B material	Material class D-s2,d2			
	Unclassified	All lower classes			
Estonia	Non-combustible	A1, A2	New regulations in force 1st January 2005		Yes
	Class V 1/I	B-s1,d0			
	Class V 1/II and 1/-	C-s2,d1			
	Class V 2/-	D-s2,d2			
	Class V -/-	F			
Finland	Non-combustible (in fire walls)	A1	New regulations in force 1st July 2002. National classes are valid until the end of 2006.	B-s1,d0 for building materials used in external walls in buildings of class P1.	Yes
	Non-combustible	A2-s1,d0			
	Nearly non-combustible	A2-s1,d0/B-s1,d0 (See Notes)			
	Lining class 1/I	B-s1,d0			
	Lining class 1/II and 1/-	C-s2,d1			
	Lining class 2/-	D-s2,d2			
	Lining class -/-	F			

Country	National Classification	EU Classification	Implementation	Notes	Check 2006
France	Non-Combustible	A1	Effective March 2003, Annex 4 to decision 31 December 2002		Yes
	M0	A2-s1,d0			
	M1	A2-s1,d1; A2-s2,d0; A2-s3,d1 B-s1,d0; B-s2,d1; B-s3			
	M2	C-s1,d0; C-s2,d1; C-s3			
	M3	D-s1,d0			
	M4 (non gouttant)	D-s2,d1; D-s3			
	M4	All classes other than E-d2 & F			
	Not classified	E-d2; F			
Germany	A1/A2 Nichtbrennbar	A1; A2-s1,d0	Implementation not clear	Official DIBt announcement in January 2002	Yes
	B1 Schwerentflammbar/No smoke, no droplets	B-s1,d0; C-s1,d0			
	Schwerentflammbar/Smoke, no droplets	B-s3,d0; C-s3,d0			
	Schwerentflammbar/No smoke, droplets	B-s1,d2; C-s1,d2			
	Schwerentflammbar/Smoke & droplets	B-s3,d2; C-s3,d2			
	B2 Normalentflammbar/Smoke, no droplets	D-s3,d0; E			
	Normalentflammbar/Smoke & droplets	D-s3,d2; E-d2			
	B3 Leichtentflammbar	F			
Greece			No implementation yet		Yes
Hungary	A1 (non combustible)		New regulations under elaboration. Deadline Jan. 2007	The 2/2002 (I.23.) BM Ministerial Decree dealing with fire issues has been implemented into the national legislation. No work is going on at this time concerning translation of the national classes.	Yes
	A2 (quasi non combustible)				
	B1 (hard combustible)				
	B2 (easy combustible)				
	B3 (easy combustible)				
	C0 (no melting)				
	C1 (melting, no droplets)				
	C2 (burning droplets/ignition)				
	F0 (no smoke)				
	F1 (moderate smoke)				
	F2 (strongly smoke products)				

Country	National Classification	EU Classification	Implementation	Notes	Check 2006
Iceland	Non-combustible	A2-s1,d0	Partly implemented. Implementation to be completed in 2006	The class 'Unclassified' does not exists in official documents. Products not achieving at least Class B are not permitted to be used unprotected in buildings	Yes
	Class A	B-s1,d0			
	Class B	D-s2,d0			
	Unclassified	All other products			
Ireland	Non-Combustible	A1 without further testing	Implemented by amendment to the Building Regulations in 2006.	The National Classification was based on the BS 476.	Yes
	Limited Combustible	A2-s3,d2			
	Class 0	B-s3,d2			
	Class 1	C-s3,d2			
	Class 3	D-s3,d2			
Italy	Class 0	A1	Two different drafts are for discussion, no decision is taken.	Fire was not covered in the new building design regulation (Sept 2005). *Decree of Ministry 15/3/2005 Requirement of reaction to the fire of the products from construction installed in activity disciplined from specific technical dispositions of prevention fires based on the European system of classification.*	Yes
	Wall : Class I	A2-s1/s3,d0/d1; B-s1/s2,d0/d1			
	Class II	A2-s1/s3,d2; B-s3,d0/d1; B-s1/s3,d2; C-s1/s2,d0; C-s1/s2,d1			
	Class III	C-s3,d0/d1; C-s1/s3,d2; D-s1/s2,d0; D-s1/s2,d1			
	Ceiling : Class I	A2-s1/s3,d0; A2-s1/s3,d1; B-s1/s2,d0			
	Class II	B-s3,d0; B-s1/s3,d1; C-s1/s2,d0			
	Class III	C-s3,d0; C-s1/s3,d1; D-s1/s2,d0			
Latvia	Non – combustible	A1	New building code with Euroclasses is in preparation process.	The comparison is only for information; it is not officially approved yet.	Yes
	Hardly combustible	A2, B			
	Combustible	C, D, E			
	Hardly inflammable (textiles)				
Nether-lands	Non Combustible	A1	Publication on the Dutch Off J June 2003 NEN-EN 13501-1 + New one end 2005	* Depend on application	Yes
	Class 1	A2-s2 or B-s2 *			
	Class 2	B-s2 or C-s2 *			
	Class 3	C-s2			
	Class 4	D-s2			
Norway	Non- and limited combustible	A2-s1,d0	Publication 14th May 2003.		Yes
	Lining class In 1 (internal)	B-s1,d0			
	Lining class In 2 (internal)	D-s2,d0			
	Lining class Ut 1 (external)	B-s3,d0			
	Lining class Ut 2 (external)	D-s3,d0			

Country	National Classification		EU Classification	Implementation	Notes	Check 2006
Poland	Non combustible		A1 & A2-s1/2/3,d0	New regulation expected 2006/2007		Yes
	Non ignitable		A2-s1/2/3,d1/2 & B			
	Hardly ignitable		C and D-s1,d0/1/2			
	Easily ignitable		D-s2/3 and E and E-d2			
		Supplementary designation				
		Non dripping	A1; A2-s1-3,d0; B-s1-3,d0; C-s1-3,d0; D-s1-3,d0			
		Self extinguishing	E			
		Intensive smoke production	A2-s3,d0-2;B-s3,d0-2; C-s3,d0-2; D-s3,d0-2; E; E-d2			
Portugal	M0		A1;A2-s1,d0	No decision is taken by the Portuguese ministry	New versions of the Regulations are ready but have not been officially approved; No demands for smoke except for A2-s1,d0	Yes
	M1		A2,d0; B,d0			
	M2		C,d0; C,d1 and C-s3			
	M3		D,d0;D-d1			
	M4		A2,d2;B,d2;C,d2;D,d2; E,d2			
	Not classified		F			
Slovakia	A – non combustible		A1	Implementation as National annex to STN EN 13501-1: 2004. Additional sub-classes are used	Translation valid up to the end 2007 or to the end of DOW of particular hEN (if relevant)	Yes
	B		A2			
	C1		B			
	C2		C, D			
	C3		E, F			
Slovenia	Non-Combustible		A1 and A2	Implementation 2005 Additional sub-classes are used	No direct translation between new and old classes, just a comparison.	Yes
	Class 1		B or C			
	Class 2		-			
	Class 3		D or E			
	Class 4		F			
Spain	M0		A1 or A2-s1,d0	Mandatory Implementation 28.09.06	RD 312/2005 of 18th March 2005, published 2nd April 2005. RD 314/2006 of 17th March 2006, published 28th March 2006	Yes
	M1		B-s3,d0			
	M2		C-s3,d0			
	M3		D-s3,d0			
	M4		-			

Country	National Classification	EU Classification	Implementation	Notes	Check 2006
Sweden	Non-combustible	A2-s1,d0	Implementation October 2002		Yes
	Class I	B-s1,d0			
	Class II	C-s2,d0			
	Class III	D-s2,d0			
Switzer-land	Combustibility: 6 Non combustible 6q Quasi non-combustible 5 Hard combustible at 200 °c 4 Normal combustible 3 Easy combustible	All EU classifcation only for trade products, but not for use in building	EU classifcation will be implemented in the building codes perhaps 2008-2010.	There is no transformation between Swiss and EU classification, Every building product must have Swiss classification for combustibility and smoke	Yes
	Smoke: - A lot of smoke - Smoke - A little bit smoke				
United Kingdom (England and Wales)	Non-Combustible	A1 (provision for non testing)	Implementation with the amendment 2002 to the Building regulations	The National classifications do not automatically equate with the equivalent classifications. Therefore products cannot typically assume a European class, unless they have been tested. For walls and ceilings.	Yes
	Limited Combustible	A2-s3,d2 or better			
	Class 0	B-s3,d2 or better			
	Class 1	C-s3,d2 or better			
	Class 3	D-s3,d0 or better			
United Kingdom (Scotland)	Non Combustible	A1 or A2 (-s3,d2) (provision for non testing)	Implemented May 2006	For walls and ceilings.	Yes
	Class 0	B-s3,d2			
	Class 1	C-s3,d2			
	Class 2/3	D-s3,d2			

Our references

dagard **Designer, Manufacturer, Installer**

Processing laboratory

Refrigerating warehouse

Cold store

Professional kitchen

Supermarket

Production facility

Processing laboratory

Processing laboratory

dagard

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Your distributor

Your partner for construction of refrigerating warehouses and isothermal enclosures

www.dagard.com

Dagard, french manufacturer for more than 60 years with 40 years presence and know-how on the other continents.

On a site of 9 hectares, we employ more than 400 employees, we design and manufacture industrial solutions for realization of refrigerating warehouses and isothermal enclosures.

Dagard realizes your custom-made project

For customers involved in food industries, processing of raw materials, food processing, storage and logistics, we deliver installations incorporating all necessary partitions from floor to roof : walls, ceilings, doors, glazing, cold rooms, refrigerating equipment and specific products.

Integrated engineering
50 technicians and engineers design your custom-made project.

Industrial production
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Shelters
Business applications
Cold stores
Retails
Food services
Dairies
Catering
Hypermarkets
Supermarkets

Supervision
Installation
Supply
Our strength
Commissioning

Dagard provides a global offer from the design to the commissioning of your project.

Advising and design
Supervision and site project management

Installation by approved teams

Commissioning and after-sales

Refrigeration cells

dagard

Refrigeration cells

Positive or negative temperatures - with or without floor- with or without refrigerating unit - isothermal hinged door - small dimensions ...

Toundra

th.60 and 100 mm
ht 185.5 and 203 cm
with or without floor
+ or - temperatures

Flexible
Effective
Economic
Strong

th.60 and 100 mm
ht 185.5 and 203 cm
with floor
+ or - temperatures

Easy Bloc

Optima

th.80 mm
ht 200 and 230 cm
with floor
+ or - temperatures

Compact
Strong
Economic
Aesthetic

th.60 mm
ht 185.5 cm
with floor
+ temperatures

Le Coin Fraîcheur

Cold-rooms

Cold rooms

Positive or negative temperatures - can be partitioned or coupled - isothermal hinged or sliding doors - semi insulated service or swinging doors.

Taïga

th .60-100 mm
ht 203-223-243 cm
with or without floor
+ or - temperatures

Modular
Can be partitioned
Can be coupled
Open-ended

th.60-100-150 mm
ht 201.5-221.5-241.5 cm
with or without floor
+ or - temperatures

Europa

A same conception

for refrigeration cells and cold rooms :

- partitions and ceilings : panels by modules of 20 cm, iceberg white (close RAL 9010) powder-coated smooth steel facings - high density polyurethane foam core, HCFC-free.
- standard floor : plywood 9 mm + phenolic resin with anti-skid hexagonal shape.

Many options

- floor : PVC-coated - aluminium reinforced plate (th. 2 or 4 mm) on standard floor (for negative temperature only)- stainless steel reinforced floor
- panels and/or doors facings : stainless steel, PET, grey lacquered steel (close RAL 9006,
- fireproof foam - class B-s2,d0
- accessories : shelvings - refrigerating units - strip curtains - access ramps...

Discover all cold rooms and refrigeration cells ranges

Toundra | Easy Bloc | Le Coin fraîcheur | Optima | Taïga | Europa

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Refrigeration cells

Easy Bloc

Complete

High Performances

Competitive

Strong

DAGARD

Easy Bloc

Easy Bloc cells have all the advantages of Toundra cells and are equipped with an efficient cooling unit. They are available in 2 heights. Their design allows to install U shape shelvings from dimension 160 cm, and optimises the storage.
On the "depth side", a panel with same width as door frame one, allows permutation of door location on site (according to dimensions, take care of shelvings).
The door is totally reversible (right/left), you select once installing. External face of the door is in PET non scratching and corrosion resistant for long term use.
Reduce width panels are easy to manipulate, even in narrow premises, and quick to install. Less than 2 hours required for 2 persons to install a cell.

	Thickness 60 mm	Thickness 100 mm
Current use	Positive temperatures	Negative temperatures until -18°C
Inside height 185,5 cm	WITH floor	
Inside height 203 cm		
Inside dimensions Length x width	from 143 x 123 cm to 203 x 203 cm by module of 20 cm	
Outside height WITH floor	inside height + 12 cm (excluding floor bearers)	inside height + 26 cm (including floor bearers ht 6 cm)
Outside dimensions Length x width	inside dimensions + 12 cm	inside dimensions + 20 cm

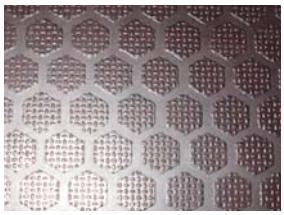
Partitions and ceiling consist in panels with camlocks

- Thickness 60 or 100 mm
- Iceberg white (close RAL 9010) powder-coated smooth steel
- Standard polyurethane foam core, High density, HCFC-free
  Option : B,s2-d0
- Thermal conductivity λ = 0,023 W/m.K
- Density 40 kg/m^3
- Uc value : 0,37 W/m^2.K in thk. 60 mm
  Uc value : 0,22 W/m^2.K in thk. 100 mm

Panel

Floors consist in panels with camlocks

- Thickness 60 or 100 mm
- Lower facing : lacquered steel
- Upper facing : plywood 9 mm + phenolic resin with anti-skid hexagonal shape.
  (No rolling load).
- High density polyurethane foam core, HCFC-free



Phenolic resin

Junctions

- Inside : integrated rounded angles, radius 15 mm
- Outside : rounded angles and angle corners in the same colours as the handle, easily washable.

Integrated rounded angles

Refrigerating unit

The refrigerating unit is supported by a special panel made in factory (locking recesses, hole for the run-off of condensation water), integrating in negative temperature a pressure compensation valve.

A choice of 6 models :
- 3 for positive temperature
- 3 for negative temperature

For optimal performance of the unit, we strongly advise that a space of roughly 40 cm be left above the refrigeration unit and/or that this room be mounted in well-ventilated premises.

Refrigerating unit

Isothermal hinged doors

- 185 x 70 cm reversible for cells of height 185,5 cm
  203 x 70 cm reversible for cells of height 203 cm
- Leaf of thickness 60 mm : 2 sides in white PET 55 µm scratch and corrosion resistant
- Key lock with inside safety opening and striking plate with electrical contact to light the room and stop cooling once opening the door.
- Heating frame in negative temperature
- Off-centered free passage to optimise space for frames 120 cm wide / centered free passage for frames 100 cm wide
- Door frame with integrated tubes for passage of cables

Hinged door

Striking plate

Basic equipment for cells of thickness 100 mm

- Ventilation rafters : ht 6 x 4 cm. Can be placed in direction of height or width.
- Pressure relief valve

For negative cold rooms exceeding a volume of 10 m³, warning devices are obligatory.

Options

- Shelvings 3 or 4 levels, maxi. load per level 120 kg, depth "400", L or U configuration according to the dimensions of the cell.
(1 reduced height side 146,5 cm to allow storage under evaporator).
- Ventilation rafters in thickness 60 mm

Shelvings

On request

•On 120 cm frame, hinged door with reduced off-centered free passage 62 cm width.

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With enthusiasm, team spirit, flexibility, adaptation and commitment, we seek to establish long-term trust.
Realizing your living environment and acting for a healthier environment : our goal through participation and construction of a qualitative society.
Dagard strives to preserve what society creates, what you create.

DAGARD, customized environments.

Customised Environments

See the other lines of cold rooms and refrigeration cells

Toundra

Optima

Taïga

Europa

DAGARD

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tel. +33 (0) 555 824 000 - info@dagard.com - www.dagard.com

Walk-in cold rooms Europa

Modular

Can be partitioned

Can be coupled

Open-ended

DAGARD

Europa

Europa cold rooms can be partitioned or coupled in different thicknesses and heights in order to realise either very simple or very complex configurations. They are expandible. They are dedicated for all commercial or industrial applications.
As each project is specific, we propose a full range of doors : hinged or sliding insulated doors, service doors, swinging doors. As doors are subject to hard request, they are designed for long term use, stringent working atmosphere and strong cleaning conditions.

	Thickness 60 mm	Thickness 100 mm	Thickness 150 mm
Current use	Positive temperatures	Negative temperatures until -25°C	Negative temperatures until -40°C (frozen products)
Inside height	201,5 cm - 221,5 cm - 241,5 cm for rooms with module 20 cm 201,5 cm - 221,5 cm - 241,5 cm - 281,5 cm - 321,5 cm... for rooms with module 40 cm		
Inside dimensions Length x width	from 80 x 80 cm to 600 x 960 cm... (module 20 cm up to 400 cm, module 40 cm thereafter)		from 80 x 80 cm to 600 x 960 cm... (module 40 cm)
Outside height WITHOUT floor out of omega 20 cm high	Inside height + 6 cm	Inside height + 10 cm	
Outside height WITH floor out of omega 20 cm high	Inside height + 12 cm (excluding floor bearers)	Inside height + 26 cm (including floor bearers ht 6 cm)	Inside height + 36 cm (including floor bearers ht 6 cm)
Outside dimensions Length x width	Inside dimensions + 12 cm	Inside dimensions + 20 cm	Inside dimensions + 30 cm

Partitions and ceiling

consist in panels with camlocks of thickness 60, 100 or 150 mm, with iceberg white (close RAL 9010) powder-coated smooth steel facings and high density polyurethane foam core, HCFC-free. Other coatings in option (stainless steel, PVC, PET, grey lacquered steel (close RAL 9006)).

- Standard polyurethane foam core, High density, HCFC-free
  Option : B,s2-d0
- Thermal conductivity λ = 0,023 W/m.K
- Density 40 kg/m^3
- Uc value : 0,37 W/m^2.K in thk. 60 mm
  Uc value : 0,22 W/m^2.K in thk. 100 mm
  Uc value : 0,15 W/m^2.K in thk. 150 mm

Panel

Floors

consist in panels with camlocks, thickness 60, 100 or 150 mm with high density polyurethane foam core HCFC-free, lower facing in lacquered steel and upper facing :

- Standard : plywood 9 mm + phenolic resin with anti-skid hexagonal shape. (No rolling load).
- Option :
  - PVC-coated floor : grey PVC-coated sheet 6/10th bonded on plywood 10 mm
  - Non slipping aluminium reinforced plate (thk. 2 or 4 mm) on standard floor (for negative temperature only)
  - Stainless steel reinforced floor : embossed stainless steel 6/10th glued to CTBX plywood reinforced with steel plate.

Floors

Phenolic resin

PVC-coated floor

Floor panels	Udl load	Concentrated static load	Dynamic load on carriage with 4 ribber coated wheels
Standard floor	3 000 kg/m^2	400 kg/60 cm^2	No rolling load
PVC-coated floor	3 000 kg/m^2	400 kg/60 cm^2	Small trolleys like Rolls
2 mm aluminium reinforced plate	4 000 kg/m^2	800 kg/60 cm^2	800 kg
4 mm aluminium reinforced plate	4 000 kg/m^2	1000 kg/60 cm^2	1000 kg
Stainless steel reinforced floor	4 000 kg/m^2	500 kg/60 cm^2	800 kg

Aluminium plate

Stainless steel

Junctions :

2 or 3 directions angles

Coupled rooms

Partitioned rooms

Doors types

Insulated hinged door
• Leaf of thickness 60 mm in positive and 100 mm in negative
2 sides in white PET 55 µm scratch and corrosion resistant
• Key lock with inside safety opening and striking plate with electrical contact to light the room and stop cooling once opening the door.
• Door frame with tubes for passage of cables
• Heater tape for negative temperature.

Hinged door

Insulated sliding door
• Leaf of thickness 60 mm in positive and 120 mm in negative
• White smooth lacquered steel facings
• Aluminium rail
• Inside and outside level handles
• Internal PVC protection and external stainless steel rounded protection
• Door frame with thermal bridge break
• Heater tape for negative temperature

Sliding door

Service door
• Leaf of thickness 40 mm
• White smooth lacquered steel facings
• Inside and outside handles in white PVC

Service door

Swinging door
• Leaf of thickness 40 mm
• White smooth lacquered steel facings
• Anti-finger pinch seal on edge of door
• Vision panel 60 x 30 cm

Option : for powder-coated steel leaf, colour according to the chart.

Swinging door

Options

• Shelvings 3 or 4 levels, maxi. load per level 120 kg, depth “400” or “500”, straight, L or U configuration according to the dimensions of the cell
• Racks
• Ventilation rafters : ht. 6 x 4 cm. Can be placed in direction of height or width.
• Strip curtains
• Finishing accessories : corner profiles, skirtings, handrails
• Pressure relief valves
• Access ramps

Corner profiles

Handrail

Skirting

Shelvings

For negative cold rooms exceeding a volume of 10 m³, warning devices are obligatory.

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See the other lines of cold rooms and refrigeration cells

Easy Bloc

Toundra

Optima

Taïga

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Refrigeration cells Optima

Flexible

Effective

Economic

Strong

DAGARD

Optima

The thickness 80 mm of OPTIMA cells allows to use them either at positive or negative temperatures. The new design without horizontal angles procures high aesthetics and saves significant time for installation. The «calepinage» allows the installation of U shape shelvings from the width 160 cm, in order to optimise the filling of the internal cell volume.
On the depth side of the cell a panel with the same width of the doorframe allows to permute the location of the door on any side (according to dimensions, take care of shelving's dimensions). The door for 2 m high cells is perfectly reversible (left/right), once can choose the opening direction during installation. For 2,3 m high cell, the door is delivered right hinged but can be easily modified on site. The external door cladding is a PET complex, corrosion and chocks resistant, for long duration of the cell.
Installation of a cell requires less than one hour for two persons.

	Thickness 80 With floor
Current use	positive and negative temperatures
Inside height 200 cm Inside dimensions Length x width	120 x 120 cm to 240 x 320 cm by module of 20 cm
Inside height 230 cm Inside dimensions Length x width	120 x 160 cm to 240 x 320 cm by module of 20 cm
Outside height	inside height + 16 cm (excluding floor bearers)
Outside dimensions Length x width	inside dimensions + 16 cm

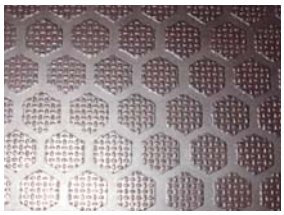
Partitions and ceiling consist in panels with camlocks

- Thickness 80 mm
- Iceberg white (close RAL 9010) powder-coated smooth steel
- Standard polyurethane foam core, High density, HCFC-free
  Option : B,s2-d0
- Thermal conductivity λ = 0,023 W/m.K
- Density 40 kg/m^3
- Uc value : 0,28 W/m^2.K

Panel

Floors consist in panels with camlocks

- Thickness 80 mm
- Lower facing : lacquered steel
- Upper facing : plywood 9 mm + phenolic resin with anti-skid hexagonal shape.
  (**No rolling load**).
- High density polyurethane foam core, HCFC-free



Phenolic resin

Junctions

- 80 x 80 mm white (close to RAL9010) PVC angles profiles (filled with polyurethane for negative temperature)
- Connection between floor and walls or walls and ceiling by direct camlocks.

Isothermal hinged doors


Hinged door

• 200 x 80 cm
reversible for cells of height 200 cm
right hinged for cells of height 230 cm with possibility to change on site
• Door leaf 80 mm thick, 2 sides in white PET 55 µm scratch and corrosion resistant
• Key lock with inside safety opening, 521 Dagard handle (without electric contact)
• Heating frame in negative temperature
• Door-frame with integrated tubes for passage of cables

Options

• Shelvings 3 or 4 levels, maxi. load per level 120 kg, depth "400", L or U configuration according to the dimensions of the cell.
(1 reduced height side 146,5 cm to allow storage under evaporator).
• Striking plate with electrical contact to order light and stop cooling once opening the door
• Pressure relief valve
• Ventilation rafters : ht 6 x 4 cm. Can be placed in direction of height or width.


Shelvings


Ventilation rafters

Pressure relief valve


Striking plate with electrical contact

Refrigerating units:

Total freedom of the choice of the cooling equipment according to your available space
• Ceiling assembly group : walls totally free (optional on our basic model)
• Wall assembly group : practical and not cumbersome in height (optional on our basic model)


Wall assembly group


Ceiling assembly group

For negative cold rooms exceeding a volume of 10 m³, warning devices are obligatory.

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Easy Bloc

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Walk-in cold rooms

Taïga

Can be partitioned

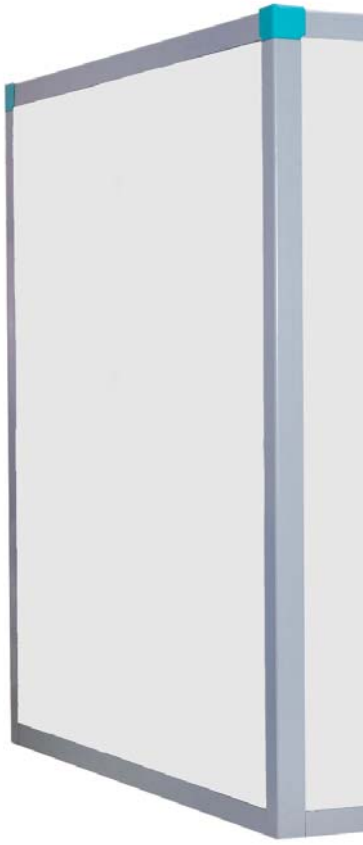
Can be coupled

Flexible

Aesthetic

DAGARD

Taïga



Taïga cold rooms are designed to fulfill any environment, use or installation requirement. With or without floor, they are expandible in 3 directions, they can be partitioned or coupled (thickness 60 mm, same height and depth).
Integrated rounded connections allow easy and quick cleaning, in accordance to hygiene rules.
To match all needs, we propose a full range of doors : hinged or sliding insulated doors, service doors, swinging doors.

	Thickness 60 mm	Thickness 100 mm
Current use	Positive temperatures	Negative temperatures until -25°C
Inside height	203 cm - 223 cm - 243 cm for rooms with module 20 cm 203 cm - 223 cm - 243 cm - 283 cm - 323 cm... for rooms with module 40 cm	
Inside dimensions Length x width	from 83 x 83 cm to 403 x 603 cm... (module 20 cm until 400 cm, module 40 cm thereafter)	
Outside height WITHOUT floor out of omega 20 cm high	Inside height + 6 cm	Inside height + 10 cm
Outside height WITH floor out of omega 20 cm high	Inside height + 12 cm (excluding floor bearers)	Inside height + 26 cm (including floor bearers ht 6 cm)
Outside dimensions Length x width	Inside dimensions + 12 cm	Inside dimensions + 20 cm

Partitions and ceiling

consist in panels with camlocks of thickness 60 or 100 mm, with iceberg white (close RAL 9010) powder-coated smooth steel facings and high density polyurethane foam core, HCFC-free. Other coatings in option (stainless steel, PVC, PET, grey lacquered steel (close RAL 9006)).

- Standard polyurethane foam core, High density, HCFC-free
  Option : B,s2-d0
- Thermal conductivity λ = 0,023 W/m.K
- Density 40 kg/m^3
- Uc value : 0,37 W/m^2.K in thk. 60 mm
  Uc value : 0,22 W/m^2.K in thk. 100 mm

Floors

consist in panels with camlocks, thickness 60 or 100 mm with high density polyurethane foam core HCFC-free, lower facing in lacquered steel and upper facing :

- Standard : plywood 9 mm + phenolic resin with anti-skid hexagonal shape. (No rolling load).
- Option :
  - PVC-coated floor : grey PVC-coated sheet 6/10th bonded on plywood 10 mm
  - Non slipping aluminium reinforced plate (thk. 2 or 4 mm) on standard floor (for negative temperature only)
  - Stainless steel reinforced floor : embossed stainless steel 6/10th glued to CTBX plywood reinforced with steel plate.

Floor panels	Udl load	Concentrated static load	Dynamic load on carriage with 4 ribber coated wheels
Standard floor	3 000 kg/m^2	400 kg/60 cm^2	No rolling load
PVC-coated floor	3 000 kg/m^2	400 kg/60 cm^2	Small trolleys like Rolls
2 mm aluminium reinforced plate	4 000 kg/m^2	800 kg/60 cm^2	800 kg
4 mm aluminium reinforced plate	4 000 kg/m^2	1000 kg/60 cm^2	1000 kg
Stainless steel reinforced floor	4 000 kg/m^2	500 kg/60 cm^2	800 kg

Junctions

- Inside : integrated rounded angles, radius 15 mm
- Outside : rounded angles and angle corners in the same colours as the handle, easily washable.

Panel

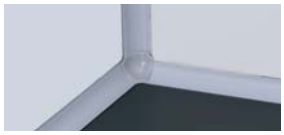
Floors

Phenolic resin

PVC-coated floor

Aluminium plate

Stainless steel



Integrated rounded angles

Doors types

Insulated hinged door
• Leaf of thickness 60 mm in positive and 100 mm in negative
2 sides in white PET 55 µm scratch and corrosion resistant
• Key lock with inside safety opening and striking plate with electrical contact to light the room and stop cooling once opening the door.
• Doorframe with tubes for passage of cables
• Heater tape for negative temperature.


Hinged door

Insulated sliding door
• Leaf of thickness 60 mm in positive and 120 mm in negative
• White smooth lacquered steel facings
• Aluminium rail
• Inside and outside level handles
• Internal PVC protection and external stainless steel rounded protection
• Doorframe with thermal bridge break
• Heater tape for negative temperature


Sliding door

Service door
• Leaf of thickness 40 mm
• White smooth lacquered steel facings
• Inside and outside handles in white PVC


Service door

Swinging door
• Leaf of thickness 40 mm
• White smooth lacquered steel facings
• Anti-finger pinch seal on edge of door
• Vision panel 60 x 30 cm


Swinging door

Option : for powder-coated steel leaf, colour according to the chart.


Coupled rooms

Options

• Shelvings 3 or 4 levels, maxi. load per level 120 kg, depth “400” or “500”, straight, L or U configuration according to the dimensions of the cell
• Racks
• Ventilation rafters : ht. 6 x 4 cm. Can be placed in direction of height or width.
• Strip curtains
• Finishing accessories : handrails
• Pressure relief valves
• Access ramps


Handrail


Ventilation rafters

Shelvings

For negative cold rooms exceeding a volume of 10 m³, warning devices are obligatory.

Dagard, a member of the PUREVER INDUSTRIES Group, provides integrated industrial solutions for tailor-made environments for food industry, hotels and restaurants, hospital, pharmaceutical, electronic sectors.
Dagard is committed to everyday life around values such as expertise, know-how, innovation, quality, listening, support and customer satisfaction so that our products rhyme with sustainable development.
With enthusiasm, team spirit, flexibility, adaptation and commitment, we seek to establish long-term trust.
Realizing your living environment and acting for a healthier environment : our goal through participation and construction of a qualitative society.
Dagard strives to preserve what society creates, what you create.

DAGARD, customized environments.

Customised Environments

See the other lines of cold rooms and refrigeration cells

Easy Bloc

Toundra

Optima

Europa

DAGARD

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tel. +33 (0) 555 824 000 - info@dagard.com - www.dagard.com

Refrigeration cells Toundra

Flexible

Effective

Economic

Strong

DAGARD

Toundra

The Toundra refrigeration cells are offered in 246 configurations and fit any environment. The clever design allows, from 160 cm dimensions, to place U shape shelvings and optimises storage.
On the "depth side", a panel with same width as doorframe one, allows permutation of door location on site (according to dimensions, take care of shelvings).
For cells with floor, the door is totally reversible (right/left), you select once installing.
External face of the door is in PET non scratching and corrosion resistant for long term use.
Reduced width panels are easy to manipulate, even in narrow premises, and quick to install. Less than 2 hours required for 2 persons to install a cell.

	Thickness 60 mm	Thickness 100 mm
Current use	Positive temperatures	Negative temperatures until -25°C
Inside height 185,5 cm Inside dimensions Length x width	WITH floor	
	from 123 x 123 cm to 203 x 203 cm by module of 20 cm	
Inside height 203 cm Inside dimensions Length x width	WITH or WITHOUT floor	WITH floor
	from 123 x 123 cm to 243 x 243 cm by module of 20 cm	
Outside height WITH floor	inside height + 12 cm (excluding floor bearers)	inside height + 26 cm (including floor bearers ht 6 cm)
Outside height WITHOUT floor	inside height + 6 cm	-
Outside dimensions Length x width	inside dimensions + 12 cm	inside dimensions + 20 cm

Partitions and ceiling consist in panels with camlocks

- Thickness 60 or 100 mm
- Iceberg white (close RAL 9010) powder-coated smooth steel
- High density polyurethane foam core, HCFC-free
- Standard polyurethane foam core, High density, HCFC-free
  Option : B,s2-d0
- Thermal conductivity λ = 0,023 W/m.K
- Density 40 kg/m^3
- Uc value : 0,37 W/m^2.K in thk. 60 mm
  Uc value : 0,22 W/m^2.K in thk. 100 mm

Floors consist in panels with camlocks

- Thickness 60 or 100 mm
- Lower facing : lacquered steel
- Upper facing : plywood 9 mm + phenolic resin with anti-skid hexagonal shape.
  (**No rolling load**).
- High density polyurethane foam core, HCFC-free

Junctions

- Inside : integrated rounded angles, radius 15 mm
- Outside : rounded angles and angle corners in the same colours as the handle, easily washable.

Panel

Phenolic resin

Integrated rounded angles

Isothermal hinged doors


Hinged door

• 185 x 70 cm reversible for cells of height 185,5 cm
  203 x 70 cm reversible for cells of height 203 cm with floor
Opening side to be chosen for cells of height 203 cm without floor.
• Leaf of thickness 60 mm : 2 sides in white PET 55 µm scratch and corrosion resistant
• Key lock with inside safety opening and external striking plate to allow really neat free passage (no electrical switch)
• Heating frame in negative temperature
• Off-centered free passage to optimise space for frames 120 cm wide / centered free passage for frames 100 cm wide
• Doorframe with integrated tubes for passage of cables

Basic equipment for cells of thickness 100 mm

• Ventilation rafters : ht 6 x 4 cm. Can be placed in direction of height or width.

Options

• Shelvings 3 or 4 levels, maxi. load per level 120 kg, depth "400", L or U configuration according to the dimensions of the cell
(1 reduced height side 146,5 cm to allow storage under evaporator).
• Striking plate with electrical contact to light the room and stop cooling once opening the door.
• Pressure relief valve
• Ventilation rafters in thickness 60 mm

For negative cold rooms exceeding a volume of 10 m³, warning devices are obligatory.


Pressure relief valve


Striking plate with electrical contact


Shelvings


Toundra Twin

On request

• On 120 cm frame, hinged door with reduced off-centered free passage 62 cm width.
• Toundra Twin : coupled Toundra in thickness 60 mm

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See the other lines of cold rooms and refrigeration cells

Easy Bloc

Optima

Taïga

Europa

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New

Glass doors
Dagard with full transparency

Limit the thermal loss

Expose and check your products door closed

dagard

Reversible glass door

extra flat doorstep

Reversible glass door for Toundra - Easy Bloc cells and walk-in cold rooms Taïga - Europa, positive temperature.

Characteristics

Double glazing 4-12-4 on anodized framework- studs- magnetic gasket - anti condensation heating cable - fixed handle on full the height.
Extra flat doorstep for pedestrian or small trolleys. Automatic self closing system (adjustable tension of spring) with blocking at 90 °.

Assembly in factory on an injected frame thickness 60 mm, width 1000 or 1200 instead of the full door
Right hand opening - reversible on site.

Clear openings:
1800 x 608 or 1975 x 608 (for cells)
1845x 908 (for walk-in cold rooms)

fixed handle

aluminium framework

Dimensions

	on cells ht 1855 or2030		on walk-in cold rooms ht 2015 or 2030
clear opening (mm)	1800 x 608	1975x608	1845 x 908
frame (mm)	1855 x 1000 or 1855 x 1200	2030x1000 or 2030x1200	2015 x 1200 or 2030 x 1200

Frame and glass doors system

framework on 4 faces

The frame an glass doors allows the presentation and the collection of fresh products stored in a cold room.
It consists of an aluminum frame with 1 to 5 glass doors.
On **positive** température the frame is heating, on **negative** temperature leaves are heating too.
Options :
Vertical lighting,
Control of the heating systems for energy saving.

stud

Characteristics

Doors on studs with automatic self closing system (adjustable tension of spring, blocking at 90 °)
Fixed handle full height.
Magnetic gasket on 4 faces.

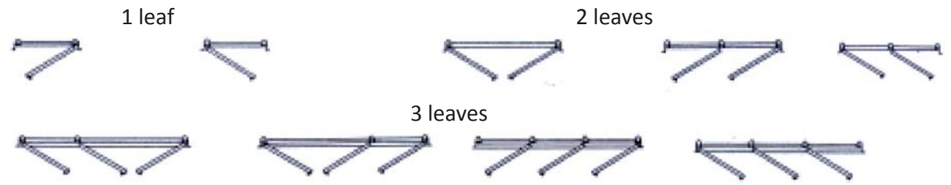
The frame an glass door system can be installed on any insulating panels or on traditional structure.
Accessories for adaptation not supplied, to be defined according the structure.

Prices

Contact us

Configurations

These various configurations can be «mixed» to get facades from 1 to 5 doors



Accessories

Door leaf colour chart

Night blue
RAL 5011

Pacific blue
RAL 5010

Horizon blue
RAL 5015

Glacier blue
Pantone 278C

Lagoon green
RAL 6027

Meadow green
RAL 6018

Forest green
RAL 6029

Sulfur yellow
RAL 1016

Pastel orange
Pantone 1495

Antique pink
RAL 3015

Molten red
RAL 3020

Canyon red
RAL 3013

Storm grey
RAL 7040

Pebble white
RAL 9002

Iceberg white
RAL 9010

Ours colours are similar to RAL and Pantone references.

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Note :

Documentation available on **www.dagard.com**

Your distributor

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Accessories

Racks

The Dagard shark's bar rack is designed for small meat businesses for hanging up meat products of all types.
Assembly is fast and easy with its ready-to-assemble components.
2 other models are available : galvanized or stainless steel frame with hanging bars systematically in stainless steel.

Technical characteristics

Height : 215 cm

Dimensions :
Rack dimensions are adapted to cold rooms from 120 x 160 cm to 320 x 320 cm

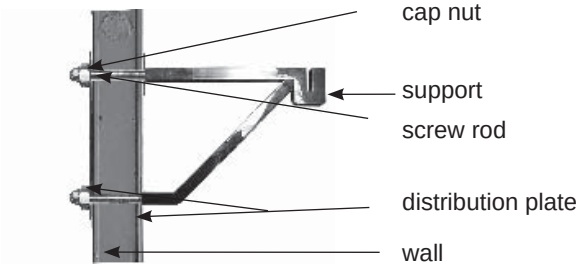
Structure:
Galvanized frame racks are made up of uprights, upper bars and intermediary bars in galvanized steel with hanging bars in stainless steel.
All the components of stainless steel racks are made of stainless steel.
Connecting pieces are made of aluminum alloy.

Hanging bars :
With hooks or smooth, in stainless steel (50 x 10 mm)
Number of hooks : 6 per ml

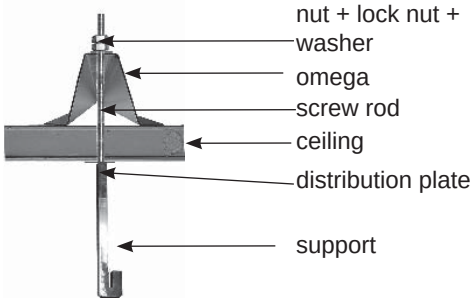
Mounting :
Bars and uprights are cut to length with predrilled holes for ease of assembly.
You are advise to build the rack on a concrete pavement in a room without floor.
We cannot guarantee the mechanical strength of our floor panels subjected to weights and loads on racks.

Admissible loads:
On one hook : 120 kg
On one bar : 350 kg on bar 2 ml

on wall



on ceiling



Hanging elements

Ring hooks

S-shaped hooks

Liding hooks

To select best rack option for your needs (stainless steel or galvanized frame), please contact the competent veterinary authorities at the site of installation of the rack.

dagard

Accessories

Basic principle of assembly

Ceiling suspensions

Horizontal support

Smooth bar

Meat hooks

Angle iron

Bar support

Upright base

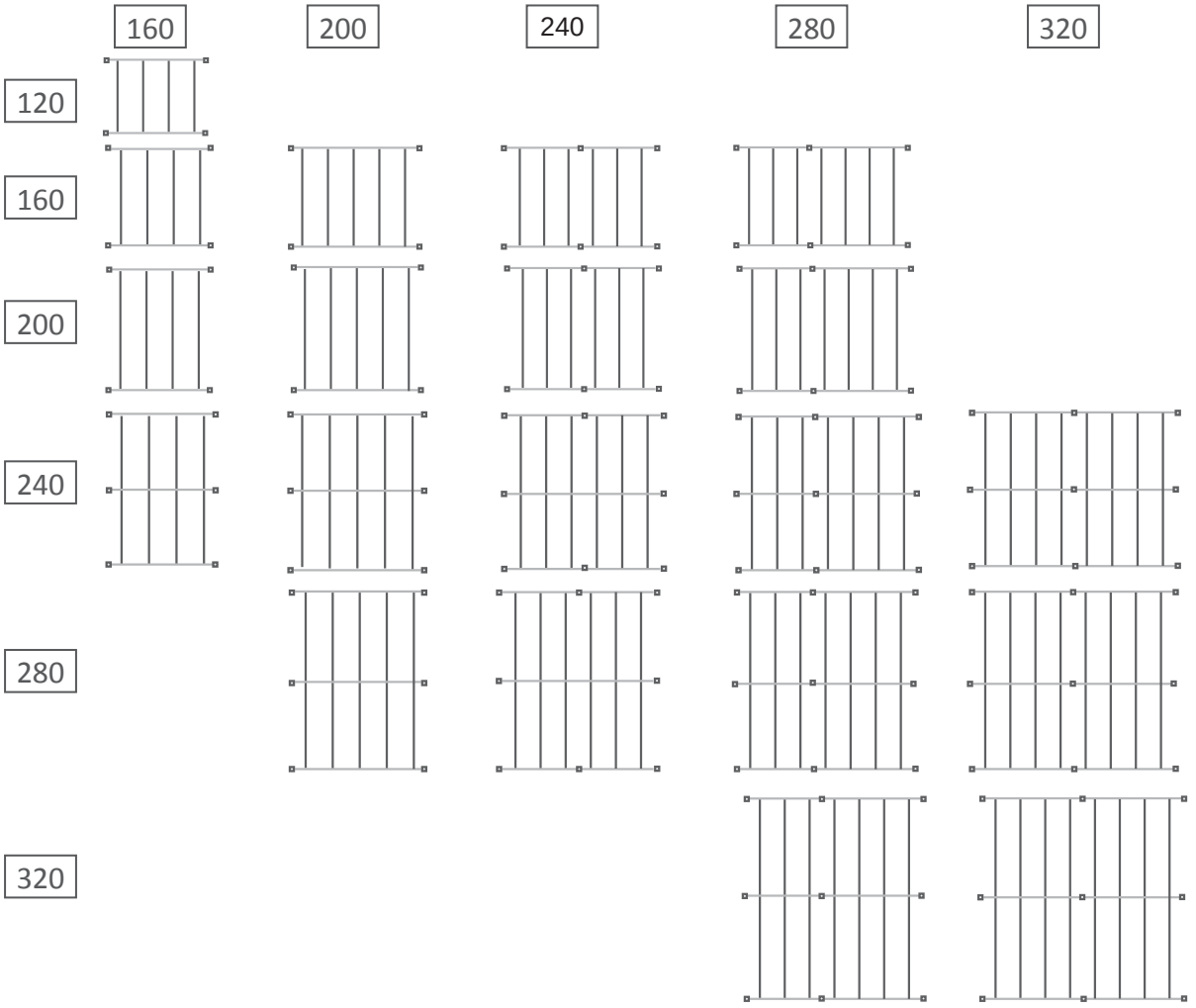
For spans in excess of 2 m, the rack is reinforced by two intermediary uprights (with the two accessories opposite : upright brace, double bar brace).

6 uprights from 240x240
4 inferior dimensions

Double bar brace

Upright brace

Standard dimensions (other configurations : consult us)



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Accessories

Shelvings

Configured in line, L or U, shelvings make it possible to optimize the space of storage, in cold rooms. Easily dismountable, shelves are machine washable for a perfect hygiene.

Shelvings are composed of a structure (ladder and cladding rails) made of anodised Duralinox (class 15) on which are installed Polymer wire grid shelves, resisting to a temperature of –40°C.

The assembly by conical connection allows a fast assembly without tool as well as a great rigidity and solidity.

Technical characteristics

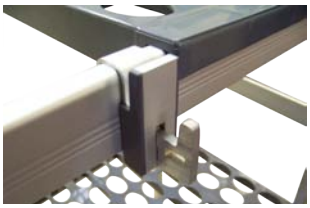
Height : 168,5 cm overall.
Depth : 36 mm or 46 mm (designation 400 and 500)

Levels length :
65 cm, 77 cm, 89 cm, 95 cm,
107 cm , 119 cm, 131 cm, 149 cm

Admissible loads :
or 120 kg per level if properly distributed
that is 450 kg maxi between 2 ladders

strengthened bar
(specificity Dagard)

Angle connecting piece on all the depth without post. Easy cleaning thanks to the movable wire grid shelves (dishwasher).



Leg adjustment by jack to correct floor horizontally imperfections.
Adjustable levels : every 15 cm, no tools required.

Other variants on request : specific dimensions, Duralinox removable shelf, mobile shelvings, hanging shelvings.

Specific configuration for Easy Bloc cell

height 146,5 cm allowing storage under the refrigerating unit to optimise space.

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Note :

Documentation available on **www.dagard.com**

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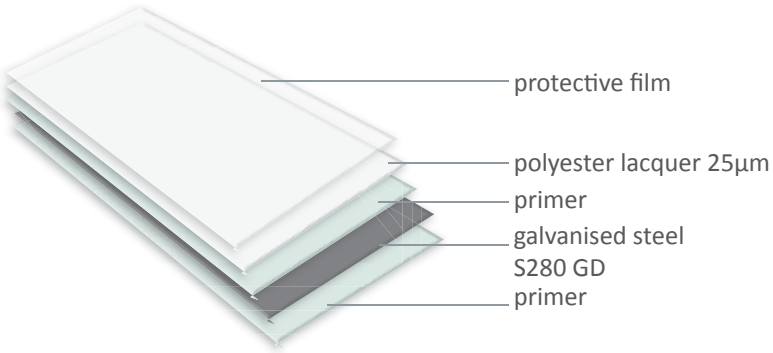
Polyester lacquered steel sheet 25 µm

FT 01-01

The polyester lacquered steel sheet 25 µm is the Dagard standard.

- easy to clean
- good resistance to corrosion and to moisture.



Technical data

description	support	hot galvanized Z225 steel S280 GD (225g/m² of zinc for the 2 sides) or similar
	facing (according to the standards XP P 34-301 and EN 10169)	recto ▪ paint of average thickness 25 µm, consists of fixing primer (5 µm) with a finish in baked polyester powder coating (20 µm) ▪ protective film to remove after assembly
		back (insulating side) ▪ fixing primer from 5 to 7 µm
	thickness	5/10 - 6/10 - 8/10
	standard colour in thicknesses 5/10-6/10 and 8/10	iceberg white (close to RAL 9010)
	optional colours in thickness 6/10	pebble white (close to RAL 9002)
		aluminium grey (close to RAL 9006)
		sand (close to RAL 1015)
	finishing	smooth
		ribbed - width of rib 58 mm, pace of 116 mm, depth of rib 0.6 mm
		micro ribbed - width 16 mm, pace of 32 mm, depth of rib 1.5 mm (only outside of the building or upper the ceiling)
recommendations	inside	This sheet, rating **IIIa**, is recommended for inside environment until Ai3, (environment no aggressive, high humidity, with no intensive cleaning, and temperatures between -40 and 25°C).
	outside	This sheet, rating **III**, is recommended for outside environment of rural type or unpolluted, urban or industrial or more, marine to a distance superior at 10 km from the sea.

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8/09/2017

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Polyester lacquered steel sheet 25 µm

dagard
FT 01-01

Characteristics	Testing standards and conditions	Polyester lacquer 25 µm
Category	XP P 34-301	IIIa
Gloss	ISO 2813 (ECCA-T2) incidence 60°	30 ± 6%
Shock resistance	ISO 6272 (ECCA-T5)	No loss of panel face adherence
Adherence by bending	ISO 1519 (ECCA-T7)	3t
Resistance to humidity	ISO 6270 (ECCA-T9)	≥ 1000 h
Resistance to neutral salt spray	ISO 7253 (ECCA-T8)	≥ 360 h
Chalk hardness	ISO 3270 (ECCA-T4)	H
Adherence to panel face (grid pattern)	ISO 2409	
Panel face resistance to heat	ISO 3270 (ECCA-T13)	100 h à 80°C ΔE ≤ 0,1
Resistance to abrasion	ISO 7784	40 mg
Reaction to fire	NF P 92-507	M0
Surface resistivity	ASTM D257	10^{11} Ω/□

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8/09/2017
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LA partitions

The LA partitions consisting of industrial insulated panels are designed for the installation of isothermal enclosures.
They meet different conditions of insulation, environment and mechanical toughness.
They can be used inside, for wall or ceiling for workshops, laboratories, corridors, offices… or outside as a cladding panel. (horizontal or vertical installation).
The easiness and rapidity of assembly, the adaptation to architecture and the possibility of later transformation are their major advantages compared with traditional structures.

Their rating of Pa2 is recognized by insurance companies.

Applications

LA partitions 40 mm thick are used for lining to comply with hygienic standards for old buildings or masonry walls.

The others thickness of this range, chosen according to work temperatures appropriate for food industries, (in positive cold rooms, stocking of cold in a positive and negative and tunnels of freezing) and mechanical resistance enable the partitioning or the realization of premises or buildings.

Characteristics

Width : 116 cm or 110 cm

Length and weight

Panel	LA 40	LA 60	LA 80	LA 100	LA 120	LA 140	LA 160	LA 180	LA 200	LA 220
Thickness (mm)	40	60	80	100	120	140	160	180	200	220
Length mini (m)	2,40	2,10								
Length maxi (m)	4,00	6,00	9,50	11,00	12,00	13,00				
Weight kg/m² - 2 faces 5/10	9,6	10,4	11,2	12	12,8	13,6	14,4	15,2	16	16,8

Coefficient Uc (W/m².K) and R (m².K/W) values
λ at + 10°C = 0,023 W/m.K, insulator's thickness = panel's thickness - 1 mm

Panel	LA 40	LA 60	LA 80	LA 100	LA 120	LA 140	LA 160	LA 180	LA 200	LA 220
Thickness (mm)	40	60	80	100	120	140	160	180	200	220
Uc in wall	0,536	0,366	0,277	0,223	0,187	0,161	0,141	0,126	0,113	0,103
R in wall	1,87	2,74	3,60	4,47	5,34	6,21	7,08	7,95	8,82	9,69

LA partitions

DAGARD

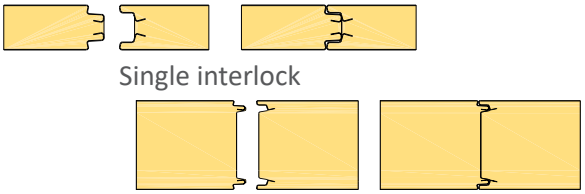
FT 02-01

λ at -10°C = 0,021 W/m.K, insulator's thickness = panel's thickness - 1 mm

Panel	LA 100	LA 120	LA 140	LA 160	LA 180	LA 200	LA 220
Thickness (mm)	100	120	140	160	180	200	220
Uc in wall	0,205	0,171	0,147	0,129	0,115	0,104	0,094
R in wall	4,88	5,84	6,79	7,74	8,69	9,65	10,60

Description

facings*	Z225 (225g/m² of zinc on the 2 sides)galvanized S280GD steel sheet or similar	**5/10 - 6/10**	**coated with a polyester lacquer 25 µm**	**basis**
		8/10	coated with a polyester lacquer 25 µm	optional
		6/10	coated with a PVDF lacquer 35 µm	
			coated with an anti bacterial laminated PVC film 150 µm	
			coated with a complex of polyester lacquer and PET film with a total thickness 55 µm.	
	304 stainless steel	6/10	Polish S4 (only 1 side)	
			coated with a PVC+PET film of total thickness 130 µm. (only 1 side)	
colours* (on steel facing)	polyester lacquer 25 µm	**5/10 - 6/10**	**iceberg white (close to RAL 9010)**	**basis**
		8/10	iceberg white (close to RAL 9010)	optional
		6/10	pebble white (close to RAL 9002)	
			aluminium grey (close to RAL 9006)	
			sand (close to RAL 1015)	
finishing*	steel	smooth (inside and/or outside face of the panel)		
		ribbed - width of rib 58 mm, pace of 116 mm, depth of rib 0.6 mm (inside and/or outside face of the panel)		
		micro ribbed - width 16 mm, pace of 32 mm, depth of rib 1.5 mm (only outside of the building)		
	stainless steel	smooth (only 1 face)		
core	polyisocyanurate (PIR) foam with a density of 40 kg/m³			**basis**
	polyisocyanurate (PIR) FM foam with a density of 40 kg/m³			optional
connecting system	The connection metal to metal specially studied for this type of panel insures a perfect tightness. The 40 mm thick panel is used for lining, its interlock is single. The interlock is double for panels thick 60 to 220 mm.			
tight seal	The continuity of the vapour-barrier is carried out between each panel by 2 polyethylene seals, laid on the panel length (on its 2 sides). According to the work and cleaning conditions (no aggressive, intensive or very intensive), or the exhibition, a seal like silicone can be added between panels instead of the polyethylene one. A butyl seal can complete the tightness in the connecting bottom, according to the ambiences.			



* The facings can differ in appearance, in colours, and/or in thickness on the inside and outside faces.

Adapt the coatings according to the environment and conditions.

Reports and approvals

Fire reaction : B-s1,d0

CE mark : Complied with NF EN 14509.

Class Pa2

CSTB Technical advice

FM global approval Standard 4880 for PIR FM foam

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21/11/2018

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LA ceilings

The LA ceilings consisting of industrial insulated panels are designed for the installation of isothermal enclosures.
They meet different conditions of insulation, environment and mechanical toughness.
They can be used inside, for wall or ceiling for workshops, laboratories, corridors, offices… or outside as a cladding panel. (horizontal or vertical installation).
The easiness and rapidity of assembly, the adaptation to architecture and the possibility of later transformation are their major advantages compared with traditional structures.

Their rating of Pa2 is recognized by insurance companies.

Applications

The thickness of this range are chosen according to appropriate work temperatures for food industries, (in positive cold rooms, stocking of cold in a positive and negative and tunnels of freezing) and mechanical resistance.

Characteristics

Width : 116 cm or 110 cm

Length and weight

Panel	LA 60	LA 80	LA 100	LA 120	LA 140	LA 160	LA 180	LA 200	LA 220
Thickness (mm)	60	80	100	120	140	160	180	200	220
Length mini (m)	2,10								
Length maxi (m)	6,00	9,50	11,00	12,00	13,00				
Weight kg/m² - 2 faces 5/10	10,4	11,2	12	12,8	13,6	14,4	15,2	16	16,8

Coefficient Uc (W/m².K) and R (m².K/W) values

λ at + 10°C = 0,023 W/m.K, insulator's thickness = panel's thickness - 1 mm

Panel	LA 60	LA 80	LA 100	LA 120	LA 140	LA 160	LA 180	LA 200	LA 220
Thickness (mm)	60	80	100	120	140	160	180	200	220
Uc in ceiling	0,370	0,280	0,225	0,188	0,162	0,142	0,126	0,114	0,104
R in ceiling	2,71	3,57	4,44	5,31	6,18	7,05	7,92	8,79	9,66

LA ceilings

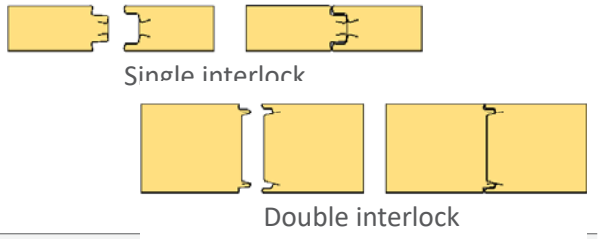
DAGARD
FT 02-02

λ at -10°C = 0,021 W/m.K, insulator's thickness = panel's thickness - 1 mm

Panel	LA 100	LA 120	LA 140	LA 160	LA 180	LA 200	LA 220
Thickness (mm)	100	120	140	160	180	200	220
Uc in ceiling	0,206	0,172	0,148	0,130	0,115	0,104	0,095
R in ceiling	4,85	5,81	6,76	7,71	8,66	9,62	10,57

Description

facings*	Z225 (225g/m² of zinc on the 2 sides)galvanized S280GD steel sheet or similar	**5/10 - 6/10**	**coated with a polyester lacquer 25 µm**	**basis**
		8/10	coated with a polyester lacquer 25 µm	optional
		6/10	coated with a PVDF lacquer 35 µm	
			coated with an anti bacterial laminated PVC film 150 µm	
			coated with a complex of polyester lacquer and PET film with a total thickness 55 µm.	
	304 stainless steel	6/10	Polish S4 (only 1 side)	
			coated with a PVC+PET film of total thickness 130 µm. (only 1 side)	
colours* (on steel facing)	polyester lacquer 25 µm	**5/10 - 6/10**	**iceberg white (close to RAL 9010)**	**basis**
		8/10	iceberg white (close to RAL 9010)	optional
		6/10	pebble white (close to RAL 9002)	
			aluminium grey (close to RAL 9006)	
			sand (close to RAL 1015)	
finishing*	steel	smooth (inside and/or outside face of the panel)		
		ribbed - width of rib 58 mm, pace of 116 mm, depth of rib 0.6 mm (inside and/or outside face of the panel)		
		micro ribbed - width 16 mm, pace of 32 mm, depth of rib 1.5 mm (on top of the ceiling)		**basis**
	stainless steel	smooth (only 1 face)		
core	**polyisocyanurate (PIR) foam with a density of 40 kg/m³**			**basis**
	polyisocyanurate (PIR) FM foam with a density of 40 kg/			optional
connecting system	The connection metal to metal specially studied for this type of panel insures a perfect tightness. The 40 mm thick panel is used for lining, its interlock is single. The interlock is double for panels thick 60 to 220 mm.			
tight seal	The continuity of the vapour-barrier is carried out between each panel by 2 polyethylene seals, laid on the panel length (on its 2 sides). According to the work and cleaning conditions (no aggressive, intensive or very intensive), or the exhibition, a seal like silicone can be added between panels instead of the polyethylene one. A butyl seal can complete the tightness in the connecting bottom, according to the ambiences.			



* The facings can differ in appearance, in colours, and/or in thickness on the inside and outside faces.
Adapt the coatings according to the environment and conditions.

Reports and approvals

Fire reaction : B-s1,d0

CE mark : Complied with NF EN 14509.

Class Pa2

CSTB Technical advice

FM global approval Standard 4880 for PIR FM foam

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Isothermal Sliding Doors

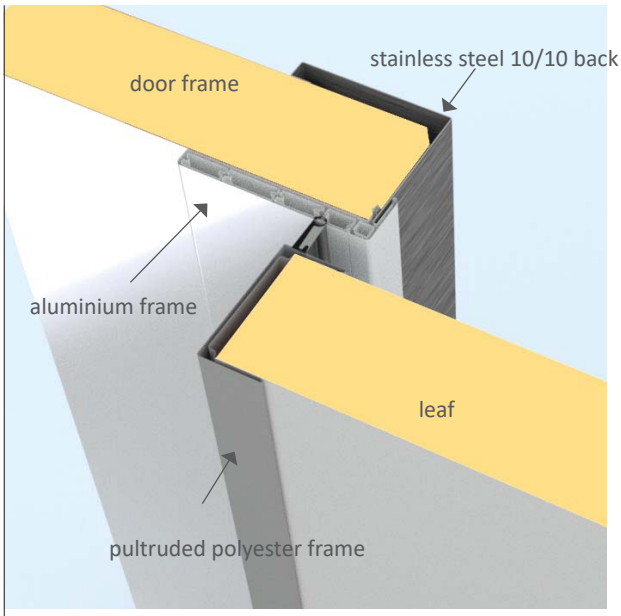
3 ranges - 3 major advantages

- **reliability**
- **quick installation**
- **large choice of dimensions**

dagard
French Manufacturer

MEDIUM
PREMIUM
TITANIUM

MEDIUM



door frame / leaf section

Why ?

Enhanced, sober, slight and robust range answering to medium requirements and designed for staff or small trolleys passages.

For who ?

For collective, central kitchens, restaurants - supermarkets, hypermarkets...

Where ?

Inside or outside
In positive or negative temperatures

Its advantages

- **Wide choice of dimensions**
  3 heights - 7 widths

- **Reliability**
  Reinforced leaf on the 4 sides by U profile in pultruded polyester resin light grey colour.
  Very stiff door frame resisting to shocks - aluminium frame thickness 15 mm and stainless steel 10/10 back frame.

- **Rapid installation**
  Door frame : fixing only on the internal side by self-tapping screws hidden by the bonded back frame.
  Aluminium rail : easy to install and to adjust.

- **PIR or mineral wool core**
  4 insulating thicknesses : 60 - 80 - 100 - 140 mm depending on the type
  Thermal and fire protection improved.

New ranges : large dimensions range - different levels of reliabili

Door frame

• Lacquered **aluminium profile** of iceberg white colour (close to RAL 9010), **stainless steel 10/10** back frame.

Leaf

Insulating panels with **enfolding peripheral frame in composite polyester** of light grey colour.

• Insulation with injected polyisocyanurate (PIR) foam
Thicknesses :
▪ **60 mm** in positive temperatures
▪ **100 mm** in negative temperatures
• Insulation with bonded mineral wool
Thicknesses :
▪ **80 mm** in positive temperatures
▪ **140 mm** in negative temperatures
• Coatings :
▪ both sides in smooth steel sheet coated with iceberg white (close to RAL 9010) polyester lacquer.

Standard equipment

• Aluminium rail Fermod 2150
• External lever handle Fermod 8730
fixed on the leaf edge
• Internal lever handle Fermod 8530
• Slide and adjustment floor guides
• Internal cleanliness plate in grey polyethylene at the lever handle level
• Sealing on the 4 sides
• For negative rooms
Aluminium threshold
Peripheral heating cable
Supply: 230 VAC, cable foreseen with cold releases.
Power maxi = 30 W/m at 0°C - 52 W/m at -30°C
Protection and connection to be made in accordance with the NF C15100 French standard.

Options

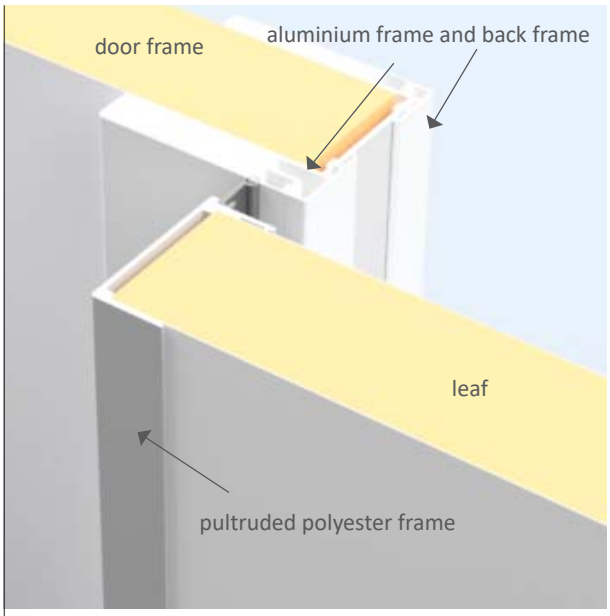
• External or internal kick plate, height 850 mm, in grey PVC, grained aspect (do not use it neither outside not in negative temperature)
• External or internal kick plate, height 850 mm in stainless steel
• Wall mounted standard key lock (safety cylinder with European profile) with inside unlocking
• Wall mounted HP Key lock (High Protection for aggressive or wet atmosphere), (safety cylinder with European profile) with inside unlocking
• Organization chart
• Semi flush vision panel 600 x 300 mm on aluminium profile (only in positive temperatures and leaf of thickness 60 and 80 mm)
• Rail cover for manual door
• Automatism + rail cover
• Rail passage
• Leaf coatings : 2 faces in PET or 2 faces in stainless steel 304
• Stainless steel door frame + stainless steel rail Fermod 7530 DAG
• Leaf and/or door frame colour according to the Dagard colour chart

Clear opening		Widths						
		900	1000	1200	1400	1600	2000	2400
Heights	2000	• ◊ Δ ○	• ◊ Δ ○	• ◊ Δ ○	• ◊ Δ ○			
	2200		• ◊ Δ ○	• ◊ Δ ○	• ◊ Δ ○	• ◊ Δ ○	• ◊ Δ	• ◊
	2500					• ◊ Δ	• ◊ Δ	• ◊

• PIR core positive t° ◊ PIR core negative t° Δ mineral wool core positive t° ○ mineral wool core negative t°

ity - rapid installation - polyisocyanurate or mineral wool core ...

PREMIUM



door frame / leaf section

Why ?

Developed line answering to high requirements and designed for staff and small or medium sizes trolleys passages.

For who ?

For food processing laboratories, catering, chocolate factories, bakeries, ... - food processing plants, fishmonger's, fruits and vegetables ...

Where ?

Inside or outside
In positive or negative temperatures

Its advantages

- **Wide choice of dimensions**
  6 heights - 8 widths

- **High reliability**
  Reinforced leaf on the 4 sides by U profile in pultruded polyester resin light grey colour.
  Very stiff door frame resisting to shocks - aluminium frame of thickness 30 mm and back frame of thickness 15 mm.
  Frame edges : polyethylene plates thickness 4 mm
  Very robust steel rail.

- **Rapid installation**
  Door frame : fixing only on the internal side by self-tapping screws
  Rail : easy to install and to adjust.

- **PIR or mineral wool core**
  3 insulating thicknesses : 80 - 100 - 140 mm depending on the type.
  Thermal and fire protection improved.

New ranges : large dimensions range - different levels of reliabili

Door frame

• Lacquered **aluminium profile** of iceberg white colour (close to RAL 9010)
• Edges in white polyethylene (thermal break profile)

Leaf

Insulating panels with **enfolding peripheral frame in composite polyester** of light grey colour.

• Insulation with injected polyisocyanurate (PIR) foam
Thicknesses :
▪ **80 mm** in positive temperatures
▪ **140 mm** in negative temperatures
• Insulation with bonded mineral wool
Thicknesses :
▪ **100 mm** in positive temperatures
▪ **140 mm** in negative temperatures
• Coatings :
▪ both sides in smooth steel sheet coated with iceberg white (close to RAL 9010) polyester lacquer.

Standard equipment

• Steel rail Fermod 3530
• External lever handle 7530
fixed on the leaf edge
• Internal lever handle Fermod 7530
• Slide and adjustment floor guides
•Internal cleanliness plate in grey polyethylene at the lever handle level
• Sealing on the 4 sides
• For negative rooms
Aluminium threshold
Peripheral heating cable
Supply: 230 VAC, cable foreseen with cold releases.
Power maxi = 30 W/m at 0°C - 52 W/m at -30°C
Protection and connection to be made in accordance with the NF C15100 French standard.

Options

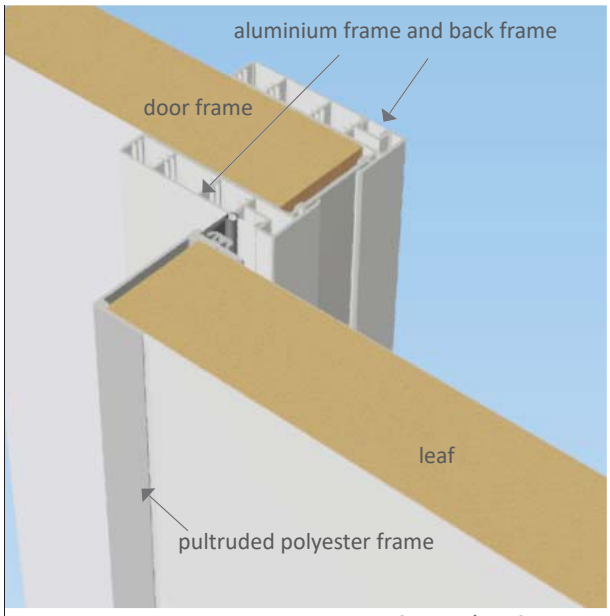
• External or internal kick plate, height 850 mm, in grey PVC, grained aspect (do not use it neither outside not in negative temperature)
• External or internal kick plate, height 850 mm in stainless steel
• Wall mounted standard key lock (safety cylinder with European profile) with inside unlocking
• Wall mounted HP Key lock (High Protection for aggressive or wet atmosphere), (safety cylinder with European profile) with inside unlocking
• Organization chart
• Semi flush vision panel 600 x 300 mm on aluminium profile (only in positive temperatures and leaf of thickness 80 and 100 mm)
• Rail cover for manual door
• Stainless steel rail Fermod 7530
• Automatism + rail cover
• Rail passage
• Leaf coatings : 2 faces in PET or 2 faces in stainless steel 304
• Stainless steel door frame
• Leaf and/or door frame colour according to the Dagard colour chart

Clear opening		Widths							
		1000	1200	1400	1600	2000	2400	2800	3140
Heights	2000	• ◊ Δ o	• ◊ Δ o	• ◊ Δ o					
	2200	• ◊ Δ o	• ◊ Δ o	• ◊ Δ o	• ◊ Δ o	• ◊ Δ o	• ◊ Δ o		
	2500	• ◊ Δ o	• ◊ Δ o	• ◊ Δ o	• ◊ Δ o	• ◊ Δ o	• ◊ Δ o	• ◊ Δ	
	2800				• ◊ Δ o	• ◊ Δ o	• ◊ Δ o	• ◊ Δ	• ◊
	3200					• ◊ Δ o	• ◊ Δ	• ◊	• ◊
	3600						• ◊	• ◊	•

• *PIR core positive t°* ◊ *PIR core negative t°* Δ *mineral wool core positive t°* o *mineral wool core negative t°*

ity - rapid installation - polyisocyanurate or mineral wool core ...

TITANIUM



door frame / leaf section

Why ?

Reinforced line answering to high requirements and designed for intensive uses and large trolleys passages.

For who ?

For refrigerating warehouses, distribution platform, ...

Where ?

Inside or outside
In positive or negative temperatures

Its advantages

- **Wide choice of dimensions**
  5 heights - 7 widths

- **Very high reliability**
  Reinforced leaf on the 4 sides by U profile in pultruded polyester resin light grey colour.
  Very stiff door frame resisting to shocks - aluminium frame and back frame of thickness 30 mm
  Frame edges : polyethylene plates thickness 4 mm
  Very robust steel rail for heavy doors.

- **Rapid installation**
  Door frame : fixing only on the internal side by self-tapping screws
  Rail : easy to install and to adjust.

- **PIR or mineral wool core**
  2 insulating thicknesses : 100 - 140 mm depending on the type.
  Thermal and fire protection improved.

New ranges : large dimensions range - different levels of reliabili

Door frame

• Lacquered **aluminium frame and back frame** of iceberg white colour (close to RAL 9010)
• Edges in white polyethylene (thermal break profile)

Leaf

Insulating panels with **enfolding peripheral frame in composite polyester** of light grey colour.
• Insulation with injected polyisocyanurate (PIR) foam Thicknesses :
  ▪ **100 mm** in positive temperatures
  ▪ **140 mm** in negative temperatures
• Insulation with bonded mineral wool
  Thicknesses :
  ▪ **100 mm** in positive temperatures
  ▪ **140 mm** in negative temperatures
• Coatings :
  ▪ both sides in smooth steel sheet coated with iceberg white (close to RAL 9010) polyester lacquer.

Standard equipment

• Galvanized steel rail Fermod 4440
• External lever handle Fermod 4440
  fixed on the leaf edge
• Internal lever handle Fermod 4440
• Slide and adjustment floor guides
• Internal cleanliness plate in grey polyethylene at the lever handle level
• Sealing on the 4 sides
• For negative rooms
  Aluminium threshold
  Peripheral heating cable
  Supply: 230 VAC, cable foreseen with cold releases.
  Power maxi = 30 W/m at 0°C - 52 W/m at -30°C
  Protection and connection to be made in accordance with the NF C15100 French standard.

Options

• External or internal kick plate, height 850 mm, in grey PVC, grained aspect (do not use it neither outside not in negative temperature)
• External or internal kick plate, height 850 mm in stainless steel
• Wall mounted standard key lock (safety cylinder with European profile) with inside unlocking
• Wall mounted HP Key lock (High Protection for aggressive or wet atmosphere), (safety cylinder with European profile) with inside unlocking
• Organization chart
• Automatism + rail cover
• Leaf and/or door frame colour according to the Dagard colour chart

Clear opening		Widths						
		1600	2000	2400	2800	3200	3600	4000
Heights	2800	• ◊ Δ o	• ◊ Δ o	• ◊ Δ o	• ◊ Δ o	• ◊ Δ o		
	3200	• ◊ Δ o	• ◊ Δ o	• ◊ Δ o	• ◊ Δ o	• ◊ Δ o		
	3600			• ◊ Δ o	• ◊ Δ o	• ◊ Δ o		
	4000			• ◊ Δ o	• ◊ Δ o	• ◊ Δ o		
	4500			• ◊ Δ o	• ◊ Δ o	• ◊ Δ o	• ◊ Δ	• ◊ Δ

• *PIR core positive t°* ◊ *PIR core negative t°* Δ *mineral wool core positive t°* o *mineral wool core negative t°*

ity - rapid installation - polyisocyanurate or mineral wool core ...

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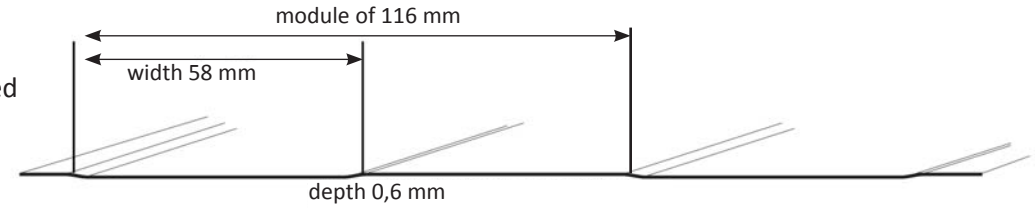
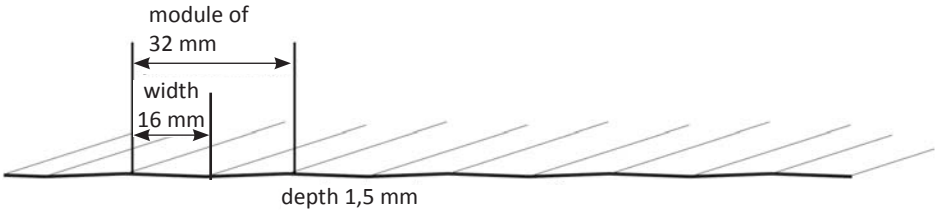
w w w . d a g a r d . c o m

Facing finishing

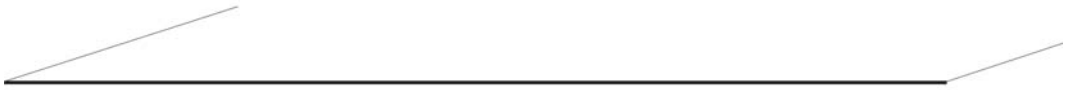
• ribbed



• micro ribbed



• smooth



Colour card for doors

Colours for panels and door leaves with lacquered steel facing
basic colour for panels : Iceberg white (close to RAL 9010)

Iceberg white RAL 9010	Pebble white RAL 9002	Gris RAL 9006

Colours for door leaves with lacquered steel facing
basic colour for doors : Iceberg white (close to RAL 9010)

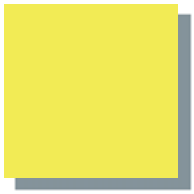
Forest green RAL 6029	Meadow green RAL 6018	Lagoon green RAL 6027
Night blue RAL 5011	Pacific blue RAL 5010	Horizon blue RAL 5015
Ice blue Pantone 278C	Pastel orange Pantone 1495C	Sulfur yellow RAL 1016
Canyon red RAL 3013	Fusion red RAL 3020	Classical pink RAL 3015
	Storm grey RAL 7040	

Standard colour for panels : iceberg white (close to RAL 9010).
All our colours are similar to RAL or Pantone references.

Accessories

Door leaf colour chart

Night blue
RAL 5011

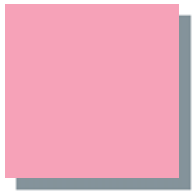


Sulfur yellow
RAL 1016

Pacific blue
RAL 5010

Pastel orange
Pantone 1495

Horizon blue
RAL 5015



Antique pink
RAL 3015

Glacier blue
Pantone 278C

Molten red
RAL 3020

Lagoon green
RAL 6027

Canyon red
RAL 3013

Meadow green
RAL 6018

Storm grey
RAL 7040

Forest green
RAL 6029

Pebble white
RAL 9002

Ours colours are similar to RAL and Pantone references.

Iceberg white
RAL 9010

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Note :

Documentation available on **www.dagard.com**

Your distributor

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Isothermal hinged gate

steel leaf - aluminium door frame - on industrial panels

dagard FT 04-01

The gate is designed for cold rooms, storages, processing plants.

Characteristics

Door frame

• Storm grey (close to RAL7040) aluminium two pieces frame providing in the same time the inside frame and the outside lining frame
• Thermal break profile.

Leaf

• Insulation by injected polyurethane foam
• Thicknesses :
  ▪ 60 mm for positive temperatures
  ▪ 120 mm for negative temperatures

• Coatings :
  ▪ 2 sides facing in smooth galvanised steel, coated with a PET 55 µm complex (for an outside use choice 25 µm polyester lacquer), iceberg white (close to RAL 9010).

Standard equipment	FT n°
2 spiral ramp hinges made of glass fibre-reinforced polyamide	09-01
Pawl 795 with keys	09-01
Rubber bead clipped on 4 sides into a plastic section	
For negative enclosures • Heating cable put in the profile integrated into the door frame Supply: 230 VAC, cable provided with cold releases. power maxi = 30 W/m at 0°C - 52 W/m at -30°C. Protection and connection to be made in accordance with the NF C15100 French standard.	

Options	FT n°
Key chart	
Door frame colour according to chart.	13-02
Leaf coatings*: galvanized steel sheet coated with a polyester lacquer (colour according to the sheet chart), stainless steel 304 (or 316 on request), stainless steel 304 coated with PVC+PET film (for an outside use choose only polyester lacquer).	chapter 01

* **Adapt the coatings according to the environment and conditions.**

Hand opening

• right or left on request, the gate is opening outside the room.

Dimensions (mm)

Clear opening height	Clear opening width	Cutout height	Cutout width	Overall height	Overall width
850	620	864	634	1050	820

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Isothermal hinged door

sheet leaf - aluminium door frame - on industrialised panels

dagard

FT 04-02

Usable inside as outside, in positive or negative temperatures, it is designed for cold rooms, storages, processing plants. It allows the passage of staff or small machines.

Characteristics

Door frame

• Storm grey (close to RAL7040) aluminium two pieces frame providing in the same time the inside frame and the outside lining frame.
• Thermal break profile.

Leaf

• Insulation by injected polyurethane foam
• Thicknesses :
  ▪ 60 mm for positive temperatures
  ▪ 120 mm for negative temperatures
• Coatings :
  2 sides facing in smooth galvanised steel, coated with a PET 55 µm complex (for an outside use choice 25 µm polyester lacquer), iceberg white (close to RAL 9010).

Standard equipment	FT n°
Spiral ramp hinges made of glass fibre-reinforced polyamide (2 units for doors widths 620, 800, 900 and 1000 mm - 3 units for doors widths 1200 and 1500 mm)	09-01
Outside handles, European cylinder-type safety lock	09-01
Inside unlocking, punch type	09-01
Rubber bead clipped on 3 sides into a plastic section	
Adjustable rabbet at low part	
for negative enclosures • Aluminium sill ready to be set • Heating cable put in the profile integrated into the door frame Supply: 230 VAC, cable provided with cold releases. power maxi = 30 W/m at 0°C - 52 W/m at -30°C. Protection and connection to be made in accordance with the NF C15100 French standard.	

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Isothermal hinged door
sheet leaf - aluminium door frame - on industrialised panels

dagard
FT 04-02

Options	FT n°
Outside or inside kick plate height 850 mm in grey PVC, grained aspect (don't use it outside neither in negative temperatures)	09-09
Outside or inside stainless steel kick plate height 850 mm	09-10
Door closer TS4000	09-07
Push bar	09-05
Lock HP (High Protection or aggressive or humid environment)	09-01
Lock with contact integrated into the striking plate	09-01
Lock with striking plate on the door frame edge	09-04
Key chart	
Track passage	09-15
Flush vision panel 600 x 310 mm (only leaf thickness 60 width 800 and 1000 mm)	09-14
Semi flush vision panel 600 x 300 mm on aluminium frame (only leaf thickness 60 mm)	09-13
Awning	
Door frame colour according to chart.	13-02
Leaf coatings*: galvanized steel sheet coated with a polyester lacquer (colour according to the sheet chart), stainless steel 304 (or 316 on request), stainless steel 304 coated with PVC+PET film (for an outside use choose only polyester lacquer).	chapter 01

* **Adapt the coatings according to the environment and conditions.**

Hand opening

- right or left on request, the gate is opening outside the room.

Dimensions (mm)

Clear opening height	Clear opening width	Cutout height	Cutout width	Overall height	Overall width
1900	620	1907	634	2000	820
2000	800	2007	814	2100	1000
2000	900	2007	914	2100	1100
2000	1000	2007	1014	2100	1200
2200	900	2207	914	2300	1000
2200	1000	2207	1014	2300	1200
2200	1200	2207	1214	2300	1400
2200*	1500	2207	1514	2300	1700

(* check the stability on panels of thickness 60 mm)

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Alpha 200 sliding door

sheet leaf - aluminium frame - on industrial panels

dagard FT 05-01

The Alpha 200 sliding door on industrial panels of thickness 60 mm allows the passage of staff and small trolleys in premises with positive temperatures.

Characteristics

Door frame

- Lacquered aluminium frame, storm grey colour (close to RAL 7040)
- Profile with thermal break

Leaf

- Insulation in injected polyurethane foam
- Thickness :
  - 60 mm
- Facing :
  - Both sides in smooth galvanised steel sheet, coated with a polyester lacquer 25 µm, iceberg white (close to RAL 9010).

Standard equipment	FT n°
Fermod aluminium rail	
External opening by pull handle	09-19
Internal opening by dished handle	09-19
Slide and adjustment guides fixed to floor	09-18
Inside PVC cleanliness plate	
Sealing on 4 edges	

Options	FT n°
Standard key lock in surface mounting (safety cylinder with European profile) with inside unlocking of the lock	09-19
Outside lever handle in form of a lever arm	09-19

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Inside lever handle in form of a lever arm	09-19

Sliding direction

- Left or right hand opening as required, the door is opening outside the cold room.

Dimensions (mm)

Clear opening height	Clear opening width	Opening height	Opening width	Overall height	Overall width
1850	800	1870	830	2038	2028
1850	950	1870	980	2038	2328
2000	950	2020	980	2188	2328
2000	1200	2020	1230	2188	2828
2000	1400	2020	1430	2188	3228
2200	950	2220	980	2388	2328
2200	1200	2220	1230	2388	2828
2200	1400	2220	1430	2388	3228
2200	1600	2220	1630	2388	3628

Ultra 700 sliding door

steel leaf - stainless steel door frame - on industrial panels

dagard FT 05-18

The Ultra 700 sliding door allows the passage of big-sized trolleys, and where the traffic is heavy.
Usable inside like outside, for negative or positive temperatures, it is designed for warehouse, processing workshops…
Its stainless steel reinforcement on the 4 sides of the leaf guarantees a high resistance to shocks.

Characteristics

Door frame
- 304 Stainless steel frame
- Profile with thermal break

Leaf
- Insulation in injected polyurethane foam
- Thicknesses : 100 mm in positive temperatures,
  150 mm in negative temperatures.
- Facing :
  - Both sides in smooth galvanised steel sheet, coated with a polyester lacquer 25 µm, iceberg white (close to RAL 9010).

Welded peripheral frame in 304 stainless steel

Standard equipment	FT n°
"Fermod" rail in bichromate zinc steel	
Outside lever handle in form of a lever arm	09-19
Inside lever handle in form of a lever arm	09-19
Slide and adjustment guides fixed to floor	
Sealing on 4 edges	
For negatives rooms • Metallic threshold • Heating cable placed into the profile integrated in the door frame Supply : 230 VAC, cord provided with cold outlet, maxi power : 30 W/m at 0°C - 52 W/m at -30°C. Protection and connection to be made according to the standard NF C 15100.	

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Ultra 700 sliding door

steel leaf - stainless steel door frame - on industrial panels

dagard FT 05-18

Options	FT n°
Outside or inside kick plate height 850 mm in grey PVC, grained aspect (don't use it outside neither in negative temperatures)	09-09
Outside or inside stainless steel kick plate height 850 mm	09-10
Standard key lock in surface mounting (safety cylinder with European profile) with inside unlocking of the lock	09-19
HP lock (High Protection for aggressive or humid environment) in surface mounting (safety cylinder with European profile) with inside unlocking of the lock	09-19
Organization chart	
Automatism	09-17
Rail cover	
Protective hoop	11-13
Protective post	11-14
Rail passage	
Stainless steel rail	
Colour of door leaf according to chart	13-02
Leaf facings: galvanized steel sheet coated with a PVDF lacquer, an antibacterial PVC film or a PET complex, stainless steel 304 (or 316 on request), stainless steel 304 coated with PVC+PET film (for an outside use choose only polyester lacquer).	chapter 01
*316 stainless steel door frame on request	

*** Adapt the coatings according to the environment and conditions.**

- Sliding direction :
  - Left or right hand opening as required, the door is opening outside the cold room.

Dimensions (mm)

Clear opening height	Clear opening width	Opening height	Opening width	Overall height	Overall width
2500	1600	2520	1630	2759	3790
2500	2000	2520	2030	2759	4840 *
2500	2400	2520	2430	2759	5310 *
2500	2800	2520	2830	2759	6190
2800***	1600	2820	1630	3059	3790
2800***	2000	2820	2030	3059	4840 *
2800***	2400	2820	2430	3059	5310 *
2800***	2800	2820	2830	3059	6190
2800*	3200	2820	3230	3059	6825
3200***	2000	3220	2030	3459	4840 *
3200***	2400	3220	2430	3459	5310 *
3200***	2800	3220	2830	3459	6190
3200*	3200	3220	3230	3459	6825

* if the rail is cut of 15 cm on the opening side.
** only in positive temperature
*** installation on panel of minimal thickness 80 mm

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Strip curtains

FT 08-01

Strip curtains are used in a passage between rooms with similar temperatures in order to limit thermal decreases during the openings while providing a good visibility.

Characteristics

Strips

- Strips in clear extruded PVC, that can be changed one by one
- Width 200 mm.
- Thickness : 2 mm.
- Covering : 50 mm, that is to say 50%.

Fixed part

- Wall-mounted or under lintel PVC tube fixed by PVC or stainless steel clips.

Movable part

- Orange armed polyethylene articulating shells, covering entirely the PVC tube to which the strips are fixed

Hanging of strips

- Removable hanging allowing a very fast mounting and dismounting

Options

- Covering 80 %.
- Covering 100 %.
- Strip width 300 mm and 3 mm thick.

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Flexible door

dagard
FT 08-02

The flexible door separate rooms where the traffic is heavy and where visibility is necessary.
It limits thermal decreases between 2 rooms of similar temperatures, in positive or negative.

Characteristics

Leaf
• One or two leaves in PVC, thickness 4 mm fully transparent.
• Grey dyed in mass fibres reinforced polyester frame, removable and unalterable.
• Two rushes in carbon fibres are placed between two welded beads at 20 cm and 120 cm from the floor, in order to stiffen the panels in 2 and 3 areas.

Door frame
•cadre et contre cadre inox ou aluminium.

Dimensions
• Width :
  ▪ from 620 to 1100 mm for one leaf,
  ▪ from 1200 to 2200 mm for 2 leaves.
• Height : from 1900 to 2700 mm.

Standard equipment

Dormants en inox 18/10

Charnières inox avec arrêt à 90°

Options

Dichromatic galvanised hinges

Low and high door parts opaque or only low door

Colour of opaque zones: orange, grey, yellow (only in positive temperature)

PVC 5 mm thick for temperature between +10° and -25° C (only 1 transparent area)

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Roll-up flexible door type A

dagard
FT 08-03

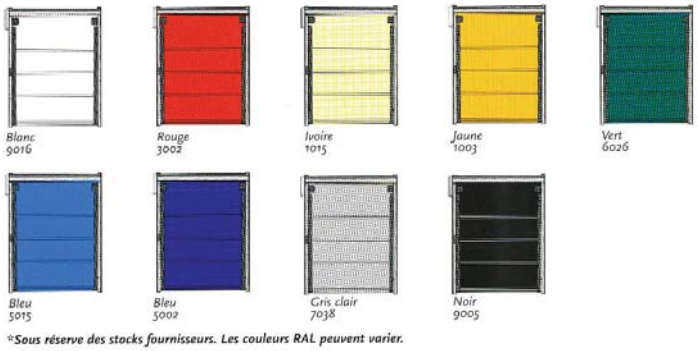
The roll-up flexible door is designed for industries which need a strong door, with a compact design, allowing an access to outside while providing an optimum insulation.
At the opening, the door bounces back under the ceiling. The work space around the bay remains clear.

Characteristics

Structure
- Self-supporting, without weld, in galvanized steel coated with epoxy polyester powder painting.
- One-piece crosspiece with motor and integrated end of course
- Cover with tilted roof
- Flexible slides fixed on multi- layer stiles
- Rolling-up drum in galvanised steel with stainless steel bearings

Apron
- Tarpaulin 100% polyester PVC coated (832 g/m^2), colour according to the chart.
- High tearing strength 50 daN.
- Treated anti-U.V., anti-mould, anti-dust and anti-corrosion Acrylic lacquer
- Fire class M2 (optional M1 and M0)
- Horizontal reinforcements in memory shape composite materials.

Motorization
- Motor IP55, stainless steel brakes power 0.55 kw
- Voltage : 400 V three-phase + earth.
- Protection IP 65
- Opening speed : 1 m/s
- Closing speed : 0,5 m/s
- Magnetic automatic order
- Manual order by pull tab or push button
- Safety complies with the EN 13 241-1 standard and CE marking



*Sous réserve des stocks fournisseurs. Les couleurs RAL peuvent varier.

New system Traficontrol
- Deformation of flexible slides and ejection of the apron in case of shocks. No rick of blocking.

Patented system Safe Control
- Light rays instead of contact edges

Options

- Horizontal visibility strip - row of windows
- Automatic rolling-up by inverter power failure - supply 230 V mono.
- Magnetic sensor
- Marking on the floor

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Sectional door 40 mm

Technical data sheet n° 08-06

Presentation

The sectional door is designed for industries looking for a robust
an access to the exterior and guaranteeing an optimal insulation.
In the opening, the door gets up under the ceiling.
The space working around the bay remains free.

g

CAG-0806-E/B

Characteristics

Structure
Galvanised steel 25/10 thick, without weld, coated with 100% polyester paint powder, grey colour (RAL 7016), other colours available on request.

Apron
Made of sections flattened continuously, insulated by injection of polyurethane foam.
Thickness : 40 mm.
Section height : 60 cm. The specific heights of the door are obtained by scrap of the high section.
16 standard colours

Door hardware
Lateral, low, high and between sections seals.
Semi-automatic bolt on all manual doors
Sliding in the rail thanks to balls rollers adjustable
Operation assisted by specific spring.
Mounting on the enclosure in wall-lamp on metallic frame
Galvanized steel intermediate hinges. Galvanized steel hinges of rives with adjustable consoles.

Security
Anti-pinch fingers
Anti-fall springs and cables
No striking part.

Airtightness
- on sides by double density seal fixed on vertical upright
- hight by rubberized seal mounting on aluminium support
- low by rubberized seal mounting on aluminium support with external lip using for mudflap
- between panels by compression seal

Dimensions of windows
Width : 2500 to 4000
Height : 2500 to 4000

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Sectional door 40 mm

Technical data sheet n° 08-06

Options

Glazed section: oval or rectangular double windows, glass bands.
Hatch: opening in the exterior (opening direction to specify), built-in or adjacent to.
Grates of ventilation.
Locks.
Motorization and automatism.

Colours chart

rainuré face extérieure et intérieure

CAG-08-06-F

micro rainuré face extérieure / rainuré face intérieure

CAG-0806-E/B

27/01/2014

Airtight air-lock *PVC*

Technical data sheet n° 08-08

Presentation

The draughtproof screen assumes the shape of vehicles during loading and off-loading.

Itpreventsthermallossandimprovethedraughtproofscreenfunction.

CAG-0809-E/B

Characteristics

Retractable system made with black front in PVC of 3400 g/m ², strengthened 3 mm in thickness
Of a weft in polyester and equipped with strip of guide.
Circle and roof tarpaulin of black color (600 g / m²).
Discharge water in high part.

Nota : Indicate airlocks exposed to the violent winds or to the effects of site.
Not included works : support plan of fixation for draughtproof screen.

Dimensions
3450 x 3400 mm
Depth : 600 mm.

Structure
Metallic frame fixed on the insulating enclosure thanks to a frame and pre-frame.
Tarpaulins are maintained by aluminium sections assembled to a flexible structure.

Functioning
When a lorry comes in support, the articulated arms of the structure compress themselves. Thanks to the return springs, front wall tarpaulins keep in support in the lorry.
When the lorry is leaving, the airtight air-lock comes to its position.

Tarpaulin
Black PVC tarpaulin 3 mm, double coat on both sides.
Weight : 3,4 kg/m².

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Dock shelter

dagard
FT 08-09

The dock shelter covers the shape of vehicles during loading and off-loading process.

It prevents thermal loss and improves the dock shelter functions.

Characteristics

Retractable system made of fronts in black PVC of 3400 g/m², thickness 3 mm reinforced by a polyester frame and provided with guide strip.
Around and roof tarpaulin in black colour (600 g / m2).
Discharge water in high part.

Nota : Indicate airlocks exposed to strong winds or to site's effects of site.
Not included works : support of fixing plan for dock shelter.

Dimensions
3450 x 3400 mm
Depth : 600 mm.

Structure
Metallic frame fixed on the insulating partition thanks to a frame and a pre-frame.
Fronts' tarpaulins are maintained by galvanised steel profiles.

Functioning
When a lorry comes in support, the articulated arms of the structure compress themselves. Thanks to return springs, front's tarpaulins keep in support on the lorry.
When the lorry is leaving, the dock shelter comes to its initial position.

Tarpaulin
Black PVC 3 mm tarpaulin, double layers with coating on the 2 sides.
Weight 3,4 kg/m2.

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Hydraulic leveller

Technical data sheet n° 08-09

Presentation

The hydraulic dock leveller adjusts itself to the height of the floor of the vehicle in the bay.

CAG-0810-E/B

Characteristics

An articulated flap enables the movements of the vehicle to be followed.
Leveller return by kept contact.
Load maxi : 6000 kg

Dimensions
2000 x 2500 mm

Fitting
On frame suspended to fit before finish of the tiled floor (making easier the realization of the civil engineering while keeping a better quality of installation).

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Inside panic unlocking
for isothermal hinged doors

FT 09-05

It allows the inside unlocking of the door.

Panic bar for lock 521

Blocks : studded
Bar : Duralinox
is adapted for all doors' clear opening

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5/08/2016

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Pressure relief valves TS25

The variations of external pressure (due to atmospheric conditions) or of internal pressure (due to the variations of temperature generated by the use) bring mechanical constraints on walls or ceilings.

The pressure valves limit the constraints by regulating the variation of pressure.

Characteristics

The pressure relief valve TS 25 is adapted for all rooms with a maximum volume of 10 000 m^3 and with a negative temperature between -5 and -40°C .
Installation on vertical panels of thickness from 130 to 270 mm or on ceiling by transferring the spring blades.

Average debit of a valve : 30 m^3/h.
Threshold of release : 100 Pa.

The number of valves required is calculated by taking into account :

- the air debit of the valve,
- the temperature and the volume of the cold room,
- the maximum speed to which the temperature of the cold room is may vary (inform us if this one is different from usual average values).

This pressure relief valve have two airtight bi directional valves and a heating system with thermal contact for the control of the temperature (power 40W).

Nota : provide a supply 230V with earth and with protection according to the standard NF C 15100.

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Pressure relief valve TS26

The variations of external pressure (due to atmospheric conditions) or of internal pressure (due to the variations of temperature generated by the use) bring mechanical constraints on walls or ceilings.

The pressure valves limit the constraints by regulating the variation of pressure.

Characteristics

Average debit of a valve : 200 m^3/h.
Maxi drop in temperature : 5°C/minute.
No threshold of release

The number of valves required is calculated by taking into account :

- the air debit of the valve,
- the temperature and the volume of the cold room,
- the maximum speed to which the temperature of the cold room is may vary (inform us if this one is different from usual average values).

The pressure relief valves with mobile valves are provided with a heating item of a power of 100 Watts.

Mounting only on vertical panels of thickness from 130 to 270 mm.

Nota : power supply : 230V + earth to provide with protection complies to NFC 15100 standard.

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Pressure relief valve TS27

The variations of external pressure (due to atmospheric conditions) or of internal pressure (due to the variations of temperature generated by the use) bring mechanical constraints on walls or ceilings.

The pressure valves limit the constraints by regulating the variation of pressure.

Characteristics

This heating valve, mechanically works with tight mobile valves, (one for the admission, the other for decompression) is specially adapted for cold rooms or warehouse with big volume (from 5.000 to 100.000 m^3).
It is installed only on wall on panels of thickness from 100 to 220 mm. (beyond specific variant) and it is adapted to temperatures until -40°C.

Average debit : 275 m^3/h
Threshold of release : 80 Pa

The number of valves required is calculated by taking into account :

- the air debit of the valve,
- the temperature and the volume of the cold room,
- the maximum speed to which the temperature of the cold room is may vary (inform us if this one is different from usual average values).

The connecting of the heating parts (tube and seats of valves) is made on the external side of the room on a composite box with possible alarm.

Supply : 230V - 160W to be provide by the customer, in accordance with the standard NF C 15100.

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PVC skirting

FT 11-01

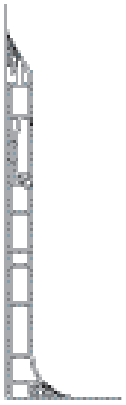
Finishing element, the PVC skirting protects the bottom of the wall in rooms where activity isn't excessive.
Its shape and its no visible fixings make it compliant to the current hygiene rules (Go-ahead CNERPAC).

Characteristics

Bi hardness PVC skirting
Lips in flexible PVC in high and low part (radius 15 mm on the floor) with tightness made by mastic silicone.
Tips stuck on the passage of doors. Salient angle pieces and rounded re-entrant angles continuous with the vertical coving section.
Finishing by mastic

Dimensions

- height : 110 mm
- length : 2400 mm
- thickness : 9 mm



Colours

- black (RAL 9004),
- white (RAL 9010)

Limits

These skirting isn't designed to resist to the mechanical shocks of any nature.
The quality of the tightness carried out with this skirting depends on the nature and the finishing of the floor.

Cleaning products

The customer must check that the compatibility of cleaning products with the nature of the surfaces to be clean (rigid and flexible PVC for the skirting).
Pay attention to strong acids or bases, solvents like ketone, and to chlorinated products ...
Cleaning processes must be in accordance with the appendix 3 of DTU 45/1.

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Floor insulation extruded Polystyrene HD300-F

FT 12-01

This floor insulator is integrated into the flagstone concrete during the structural work of the building. It allows to obtain an optimal insulation of the room.

Its compressing strength guarantees the passage of vehicles without deformation of the product.

Reference
- STYROFOAM HD 300 F

Characteristics

Composition

- Rigid foam of extruded Polystyrene without HCFC
- colour : blue.
- CE marking.

Dimensions

- Width : 600 mm.
- Length : 2600 mm in thickness 60 mm
  2500 mm in thickness 80 mm
- Thickness : 60 and 80 mm.

Technical specifications

- Resistance in service compression (rsc) : 420 kPa.
- Thermal conductivity : 0,029 W/m.K.
- Density : 45 kg/m^3.
- Conventional service distortion (ds) : 1<ds<2

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“Expanded polyester” Floor insulation SP-A

dagard
FT 12-03

This floor insulator is integrated into the flagstone concrete at the time of the building fabric. It allows to obtain an optimal insulation of the room.

Its compressing strength guarantees the passage of vehicles without product distortions.

reference
- STYROFOAM SP- A

Characteristics

Composition

- rigid foam of extrude polystyrene without HCFC.
- colour : blue.

Dimensions

- width : 600 mm.
- length : 2500 mm.
- thickness : 80 mm.

Technical specifications

- Compressive service resistance (rcs) : 210 kPa.
- Thermal conductivity : 0,033 W/m.K.
- Density : 35 kg/m^3.
- Conventional service distortion (ds) : 1<ds<2

Approvals

- I.S.O.L.E : 41344.
- ACERMI 04/013/325
- marking CE.

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