

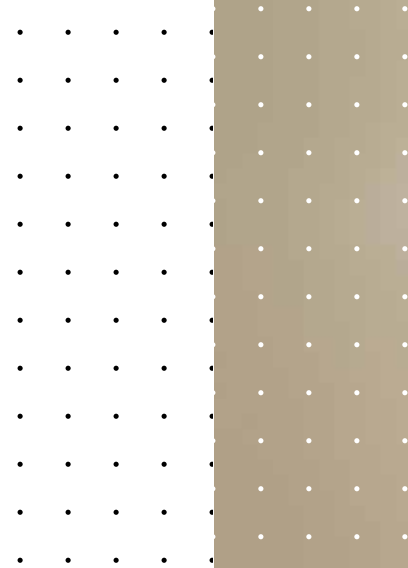
Technical Dossier

Rolling shutters
and Rolling doors

saxun[•]
Your world, our universe.

An almost infinite universe of possibilities

At Saxun we have a clear purpose: to contribute to people's well-being and happiness by rolling out solutions aimed at improving their living spaces.









We have been improving living spaces for more than 60 years

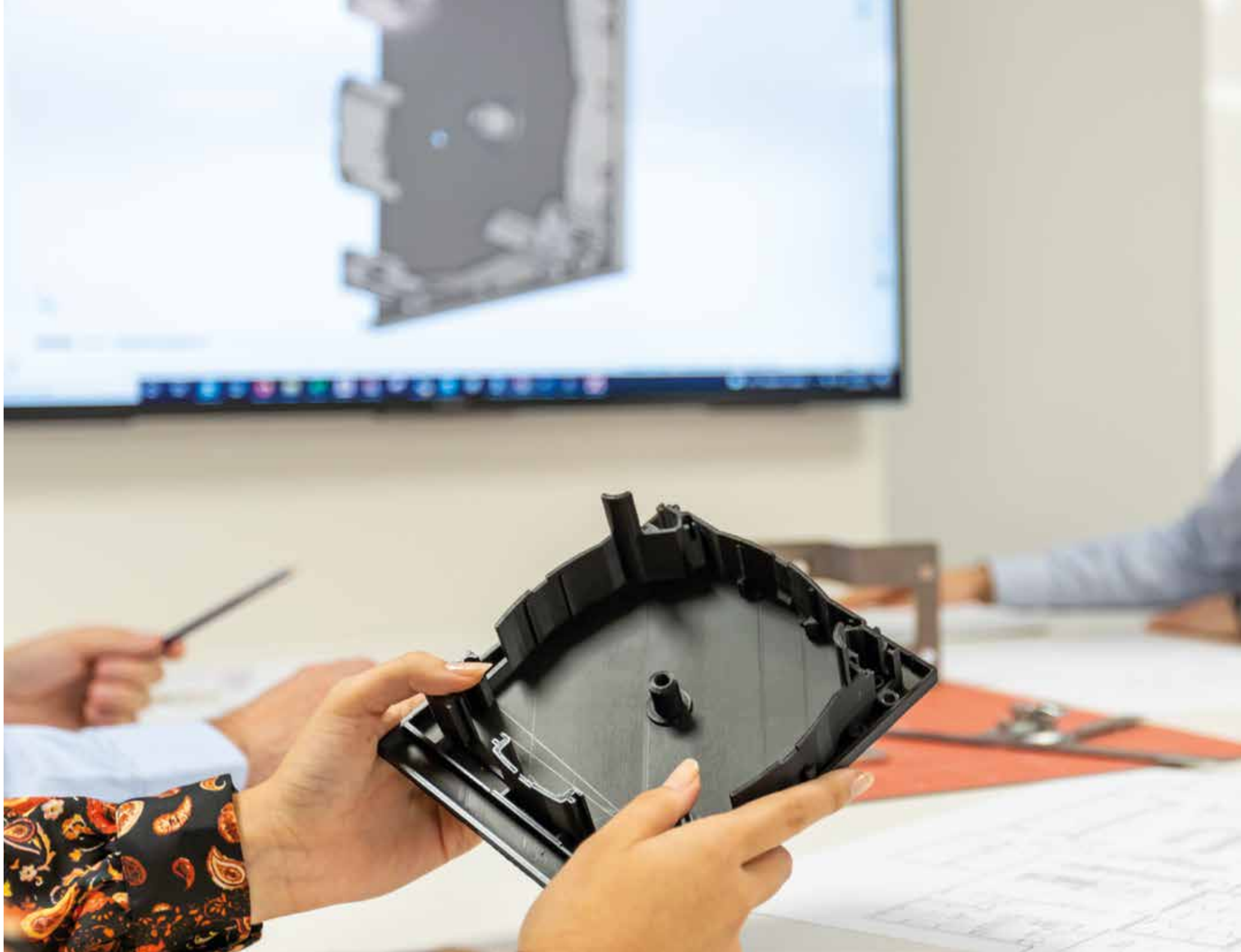
Saxun offers you the widest range of cladding, sun protection and furnishing systems on the market to improve your living spaces, adapted to your needs and style, so that you can feel safe and protected.

We design, manufacture and market compact and rolling shutters, mosquito screens, window and door shutters and louvers, garage and commercial doors, folding doors and ceilings, automatic glass doors, glass curtains, curtains and blinds, PVC Alicante shutters and curtains... An extensive catalogue born from initiative and concern.

Therefore, we are not exaggerating when we say that we have a universe of solutions to lay at your feet, to turn your home or your business into your favourite space.

We adapt to the changing times through our commitment, investment and innovation to achieve continuous improvement in the production and management processes, maximising the knowledge of our professionals so that they can provide you with the best advice and always find the best solution.





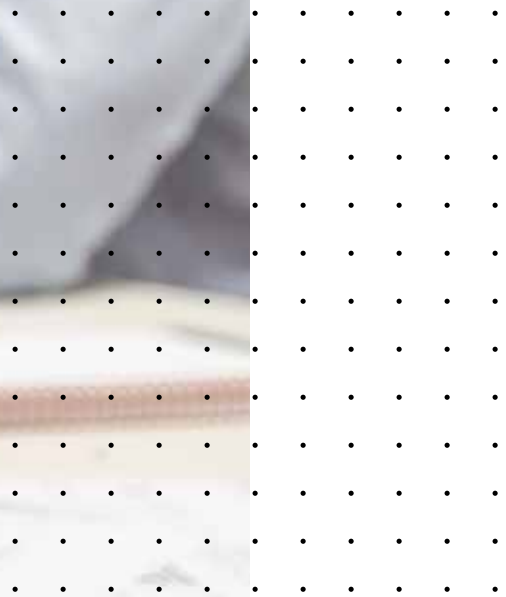


A unique approach to innovation

Becoming a large company is much easier when customer and user satisfaction is placed as the fundamental objective of the whole process of hard work, taking great care from the moment an order is placed until it is delivered to the customer.

The creation of R&D+A

Because of this, our R+D+i department has taken its work philosophy to a new level: that of R+D+A. "A" for Application. Because we understand innovation as the ability to develop cutting-edge applications that improve our users' quality of life.





Supporting the professional in every step of the project

Our specialised team, formed of architects, engineers and construction professionals, is always available to help, working shoulder to shoulder with the commercial department and with our clients to advise on doubts that could arise during any installation.

Choosing the best option on a technical and aesthetic level, or identifying the concrete requirements of a space, will be much simpler for our clients, thanks to being able to count on assistance of the highest calibre.

So, we ensure that our sun protection system installations for buildings not only reach any location, but also become optimally integrated into any type of project.

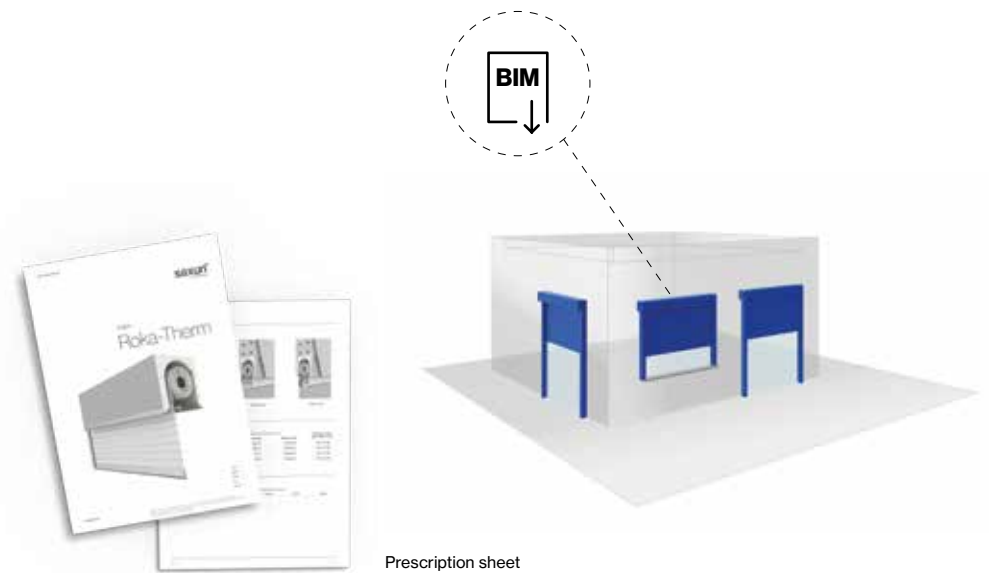




Saxun **BIM**

Satisfying clients goes beyond offering the best products with the market leader's guarantee. Full satisfaction is reached when solutions are provided that make a project easier for those working on it.

The most popular products are constantly available on our website in BIM format, ready to be implemented in project plans. This aspect allows professionals to integrate our products into a model of the building, to better understand the opportunities presented by the product and its components during the project phase.



Prescription sheet



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Rolling shutters and Rolling doors

The choice of a good blind is essential for any type of building, whether new construction or renovation. Thus, Saxun's extensive experience in the manufacture of rolling shutters, allows us to offer a comprehensive catalogue to help meet all types of needs.

Windows are the most thermally sensitive point in any type of building. It is the place most prone to the entry of the cold in winter and the heat in summer. Therefore, it is the place where the most energy is wasted.

A complete range consisting of profiled aluminium, extruded aluminium and PVC slats with optimum performance, aesthetics and mechanics, as well as a great variety of boxes, with which to lessen energy wastage and offer solar protection.









A new concept of comfort and safety

At Saxun we understand that homes are meant to be safe places for ourselves and the things we value most. That's why all our rolling doors are manufactured to protect entrances, with one single aim: the resident's peace of mind.

The quality of the aluminium guarantees maximum resistance to any external factor, whether human or environmental. To add to that, by introducing systems that enhance protection against possible break-in attempts, we've made our doors a top choice among architects and construction professionals.



Maximum security and safety



Ventilation



Chromatic variety



Automated



Product test

Saxun R+D+i department is constantly working on de-veloping new products to meet the strictest requirements on the current window system market. They are focused on the requirements needed by the client, especially for architects on projects where energetic savings, sustainability and insulation concepts are of the utmost importance.

The result of this arduous work is the wide range of profiled aluminium, extruded and PVC slat models.

In addition to the functionality provided by this material is the aesthetic for façades, thanks to the RAL colour range available, which makes for finishes that match the different components of the blinds.





The process to attain a quality product at Saxun doesn't stop here. At the Sax central's facilities, the R+D+i team has the instruments necessary to study the behaviour of each one of the models manufactured under atmospheric phenomena and their life cycle.





CE Mark

Saxun obtains and maintains the necessary conformity for their slats with the essential requirements established by the European Union.

With a company policy that guarantees a quality product, Saxun has the technical documentation necessary to verify that the products meet with the corresponding CE marking. Information is also supplied that bears witness to the specified construction characteristics and guarantees that the values stated from the initial test are maintained.

What is more, the product comes with its respective identifying, exclusive label. The foam filled roll formed aluminium slats and PVC slats were developed and manufactured according to the chapters in EN-13659.

On the other hand, extruded aluminium safety doors and slats were developed and manufactured according to the chapters in EN-13241-1.

Additionally, the development and manufacture of these products are aligned, given that they fulfil the European Construction

Product Regulation N° 305/2011, as well as the scope of application of the activation system that they have, such as motorisation and automations according to Guidelines: 2014/30/UE regarding Electromagnetic compatibility, 2014/35/UE regarding Low voltage and 2014/53/UE Radio electric equipment and telecommunication End slat equipment.



Environmental policy

Saxun is a company that provides solutions for solar protection systems, whose purpose is to promote wellbeing and energetic savings for those who benefit from our products.

This is why sustainability and energetic efficiency have such a fundamental role in the idiosyncrasy of our productive processes. We apply a strict environmental policy, in line with the company's social responsibility policy.

We use sustainable, totally reusable materials, such as aluminium, which is used in practically all of our products. This metal can be absolutely recycled, its properties and services kept intact. The extrusion plant is also equipped with purification stations that minimise the impact of waste waters in the lacquer and anodising processes.

Another greatly important material in our products is PVC, where the raw materials used are of the highest quality. Of note is the fact that they are totally lead-free as a stabilising agent. The PVC extrusion plant has excellent filtration, which along with the reduced handling of chemical products, makes for a clean environment that guarantees a totally healthy setting for users.



Benefits statement

Benefits statement for different models of Saxun slats.

DdP Nº PE/02/2013 RPC
Rolling shutter Alugix-39.5

saxun
by SCHÜCO Europe

DECLARACIÓN CE DE PRESTACIONES
DdP Nº PE/02/2013 RPC

1.- Identificación del Producto: Alugix-39.5
2.- Nombre y dirección del fabricante:
GIMÉNEZ GANSA S.L.U. www.gimenezgansa.es
Pta. Ind. "El Castiello", C/Alfama, 4. 03000 SAX (ALICANTE), ESPAÑA
3.- Uso previsto: Persona para la edificación
4.- Sistema de evaluación: Sistema 4
5.- Organismo notificado: No procede

6.- Prestaciones declaradas

Características esenciales	Alto x Ancho (mm)	Prestaciones	Norma Armonizada
Resistencia al viento	1450 x 9000	Clase 8	EN 13059-2004+A1:2008
	1450 x 3950	Clase 3	
	1450 x 2150	Clase 4	
	1450 x 2000	Clase 2	
	1450 x 2000	Clase 2	
Resistencia al viento	2255 x 9000	Clase 6	EN 13059-2004+A1:2008
	2255 x 3150	Clase 5	
	2255 x 1900	Clase 4	
	2255 x 2000	Clase 2	
	2255 x 2150	Clase 2	

Substancias peligrosas: Exento de sustancias peligrosas en base a la información del REACH.
Las prestaciones del producto identificado en el punto 1 son conformes a las declaradas en el punto 6.
La presente declaración de prestaciones se emite de conformidad con el Reglamento (UE) 305/2011, bajo la única responsabilidad del fabricante indicado en el punto 2.
Firmado por y en nombre de GIMÉNEZ GANSA S.L.U.
San. 1 de Julio de 2013. Francisco Giménez Pita, Responsable Mercado CE.

DdP Nº PS/16/2013 RPC
Rolling door PS-64

saxun
by SCHÜCO Europe

DECLARACIÓN CE DE PRESTACIONES
DdP Nº PS/16/2013 RPC

1.- Identificación del Producto: PS-64
2.- Nombre y dirección del fabricante:
GIMÉNEZ GANSA S.L.U. www.gimenezgansa.es
Pta. Ind. "El Castiello", C/Alfama, 4. 03000 SAX (ALICANTE), ESPAÑA
3.- Uso previsto: Persona para la edificación
4.- Sistema de evaluación: Sistema 4
5.- Organismo notificado: No procede

6.- Prestaciones declaradas

Características esenciales	Alto x Ancho (mm)	Prestaciones	Norma Armonizada
Resistencia al viento	1450 x 2900	Clase 8	EN 13059-2004+A1
	1450 x 2150	Clase 3	
	1450 x 2000	Clase 4	
	1450 x 1500	Clase 2	
	1450 x 3800	Clase 2	
Resistencia al viento	2255 x 9000	Clase 6	EN 13059-2004+A1:2008
	2255 x 1900	Clase 5	
	2255 x 2000	Clase 4	
	2255 x 2000	Clase 2	
	2255 x 3000	Clase 2	

Substancias peligrosas: Exento de sustancias peligrosas en base a la información del REACH.
Las prestaciones del producto identificado en el punto 1 son conformes a las declaradas en el punto 6.
La presente declaración de prestaciones se emite de conformidad con el Reglamento (UE) 305/2011, bajo la única responsabilidad del fabricante indicado en el punto 2.
Firmado por y en nombre de GIMÉNEZ GANSA S.L.U.
San. 1 de Julio de 2013. Francisco Giménez Pita, Responsable Mercado CE.

DdP Nº PE/37/2013 RPC
Rolling shutter Alugix-45

saxun
by SCHÜCO Europe

DECLARACIÓN CE DE PRESTACIONES
DdP Nº PE/37/2013 RPC

1.- Identificación del Producto: Alugix-45
2.- Nombre y dirección del fabricante:
GIMÉNEZ GANSA S.L.U. www.gimenezgansa.es
Pta. Ind. "El Castiello", C/Alfama, 4. 03000 SAX (ALICANTE), ESPAÑA
3.- Uso previsto: Persona para la edificación
4.- Sistema de evaluación: Sistema 4
5.- Organismo notificado: No procede

6.- Prestaciones declaradas

Características esenciales	Alto x Ancho (mm)	Prestaciones	Norma Armonizada
Resistencia al viento	1450 x 2900	Clase 8	EN 13059-2004+A1
	1450 x 2150	Clase 3	
	1450 x 2000	Clase 4	
	1450 x 1500	Clase 2	
	1450 x 3800	Clase 2	
Resistencia al viento	2255 x 9000	Clase 6	EN 13059-2004+A1:2008
	2255 x 1900	Clase 5	
	2255 x 2000	Clase 4	
	2255 x 2000	Clase 2	
	2255 x 3000	Clase 2	

Substancias peligrosas: Exento de sustancias peligrosas en base a la información del REACH.
Las prestaciones del producto identificado en el punto 1 son conformes a las declaradas en el punto 6.
La presente declaración de prestaciones se emite de conformidad con el Reglamento (UE) 305/2011, bajo la única responsabilidad del fabricante indicado en el punto 2.
Firmado por y en nombre de GIMÉNEZ GANSA S.L.U.
San. 1 de Julio de 2013. Francisco Giménez Pita, Responsable Mercado CE.

DdP Nº PE/26/2014 RPC
Rolling shutter Mini-40 PVC

saxun
by SCHÜCO Europe

DECLARACIÓN CE DE PRESTACIONES
DdP Nº PE/26/2014 RPC

1.- Identificación del Producto: Mini-40 Especial PVC
2.- Nombre y dirección del fabricante:
GIMÉNEZ GANSA S.L.U. www.gimenezgansa.es
Pta. Ind. "El Castiello", C/Alfama, 4. 03000 SAX (ALICANTE), ESPAÑA
3.- Uso previsto: Persona para la edificación
4.- Sistema de evaluación: Sistema 4
5.- Organismo notificado: No procede

6.- Prestaciones declaradas

Características esenciales	Alto x Ancho (mm)	Prestaciones	Norma Armonizada
Resistencia al viento	1450 x 1000	Clase 8	EN 13059-2004+A1:2008
	1450 x 1200	Clase 3	
	1450 x 1450	Clase 4	
	1450 x 1900	Clase 2	
	1450 x 1900	Clase 2	
Resistencia al viento	2255 x 1000	Clase 6	EN 13059-2004+A1:2008
	2255 x 1200	Clase 5	
	2255 x 1500	Clase 4	
	2255 x 1900	Clase 2	
	2255 x 1900	Clase 2	

Substancias peligrosas: Componente de PVC-U no plastificado libre de plomo.
Las prestaciones del producto identificado en el punto 1 son conformes a las declaradas en el punto 6.
La presente declaración de prestaciones se emite de conformidad con el Reglamento (UE) 305/2011, bajo la única responsabilidad del fabricante indicado en el punto 2.
Firmado por y en nombre de GIMÉNEZ GANSA S.L.U.
San. 29 de Julio de 2014. Francisco Giménez Pita, Responsable Mercado CE.

Shutters, performance requirements including safety.

EN 13659

Tests

According to EN 1932

«Resistance to wind loads, method of testing and performance criteria».

According to ISO 52022

«Solar protection devices combined with glazing - Calculation of solar and light transmittance - Part 1: Simplified method».

According to EN 13125

«Shutters and blinds - Additional thermal resistance - Allocation of a class of air permeability to a product».

Classification

According to EN 13659

«Shutters, performance requirements including safety».

Wind resistance of a shutter is characterized by its capacity to resist specific loads that simulate the action of wind pressure and depression.

Wind resistance is specified within the classes defined by threshold values of the following pressures:

$$\text{Wind force (Pa)} = 1/2 \times r \times v^2$$

$$1 \text{ Pa} = 1 \text{ N/m}^2$$

$$r = \text{density air} = 1.225 \text{ kg/m}^3$$

$$v = \text{speed air m/s}$$

$$1 \text{ m/s} = 3.6 \text{ km/h}$$

“p” Nominal pressure

Represents wind pressure applied to the blind by which it must not be deformed or damaged which may affect the correct function.

“1,5 p” Safety pressure

Represents wind pressure applied to the blind by which no damage will be observed that may be dangerous for the people: break, displacement of devices, locking or blocking.



Wind resistance classes

Wind resistance blinds are evaluated by applying an even distributed load on the whole enclosure, thus representing wind pressure:

Class

	0	1	2	3	4	5	6
Nominal pressure test (Pa) ó (N/m²)	<50	50	70	100	170	270	400
Safety pressure 1.5 p (Pa) ó (N/m²)	<75	75	100	150	250	400	600
Pressure safety speed 1.5 p (Km/h)	<393	≈ 39,8	≈ 46	≈ 56	≈ 73	≈ 92	≈ 112

Parameters of situation

Location

Depending on the height at which our blind is located:
Being from 0-6 m, 6 m to 18 m, 18 m to 28 m, 28 m to 50 m and 50 m to 100 m above ground.

Land

1. Seaside, lakes traveled by the wind over a distance of at least 5 km, flat countryside unhindered.
2. Countryside with hedges, small farms, houses and occasional trees.
3. Suburban industrial areas and permanent forests.
4. Urban areas in which buildings occupy at least 15% of the area and have an average height greater than 15 m.

Industrial, commercial and garage doors and gates.

EN 13241-1

Tests

According to NORMA EN 12444:2000

«Industrial, commercial and garage doors and gates. Resistance to wind load. Testing and calculation».

According to NORMA EN 12604:2000

«Industrial, commercial and garage doors and gates. Mechanical aspects. Test methods».

According to NORMA EN 12453:2000

«Industrial, commercial and garage doors and gates. Safety in use of power operated doors. Test methods».

Safety factors for wind loads

Safety factors to consider in the design of the doors with respect to their resistance to wind load.

The table shows, for each type of design outlined in EN 12424, charges related test, the fracture limit loads (applicable only to tests) and design loads.

Definition of terms

The terms are understood as follows:

Design Load

Rating values of reference for wind load as stated in the table.

Test Load

Applied load when tested without permanent deformation and is equal to a load x factor of 1.1.

Breaking Load Limit

Load to be applied when tested with permanent deformation but the door remains in place and that equals a rated load x factor of 1.1 x 1.25.

Load Calculation

Load to be considered for the calculation based on the stress and equals rated load x factor of 1.5.





Wind resistance classes

Wind resistance blinds are evaluated by applying an even distributed load on the whole enclosure, thus representing wind pressure:

Class

	1	2	3	4	5
Load design (Pa)	≤ 300	≤ 450	≤ 700	≤ 1,000	> 1,000
Load test (Pa)	330	495	770	1.100	design load x 1.1
Load calculation (Pa)	450	675	1.050	1.500	design load x 1.5
Breaking load limit (Pa)	≥ 415	≥ 620	≥ 965	≥ 1.375	design load x 1.25
Wind speed limit load break (km/h)	≈ 93.7	≈ 114.5	≈ 142.9	≈ 170.6	> 170.6



Reaction to fire tests

Tests

According to EN-ISO 11925-2

«Ignitability of building products subjected to direct impingement of flame. Part 2: Single-flame source test».

According to EN-ISO 13823

«Ignitability of building products subjected to direct impingement of flame. Part 2: Single-flame source test».

Definition

This classification was carried out according to the procedures given in the standard:

EN 13501-1

Fire classification of construction products and building elements».

Part 1: Classification using data from reaction to fire tests.

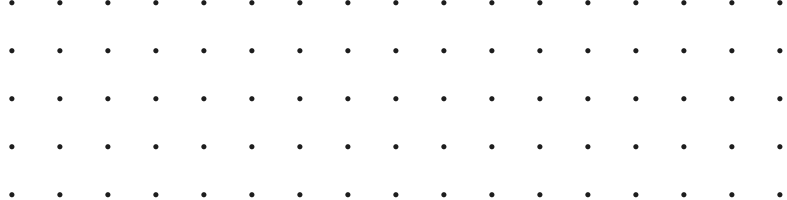
Definition of the classification

Class A
Non-Combustible Product.

Class A1
No permitted inflammation and must meet the criteria for mass loss and increased temperature. It must also meet the criteria for Higher Calorific Power.

Class A2
Allows an inflammation ≤ 20 sec. and must meet the criteria for mass loss and increased temperature. It must also meet the criteria for Higher Calorific Power.

Class B
High limited contribution to fire. Combustible.



Additional expressions

Class C

Limited contribution to fire.
Combustible.

Class D

Average contribution to fire.
Combustible.

Class E

High contribution to fire.
Combustible.

Class F

No performance determined.
Unclassified.

Regarding smoke emission:

Refers to the emission of fumes produced by the sample (opacity), calculating the amount and speed, depending on the values obtained have limits for the possible classification.

s1 Would correspond to a sample which produces low smoke.

s2 Would correspond to a sample which produces an average emission of smoke.

s3 For products with high emission of smoke, when they don't meet the criteria for s1 and s2.

Fall of drops

The observation of falling material or inflamed in the first 10 minutes of test particles allow the identification attributed to the material subscript «d», in the following way.

d0 No drop of inflamed material is observed.

d1 Drop of inflamed material with a persistent flame ≤ 10 seconds.

d2 Drop of inflamed material with a persistent flame > 10 seconds.

Testing profiled aluminium slats with injected polyurethane.

Slats without light slits

Alugix-39.5, Alugix-42, E-45, Alugix-45, Alugan-45, Alugix-50, Alugix-55, Alugix-546, Alugix-56 and PS-78.

Behavior to fire	Smoke production	Flame drops	Classification of reaction to fire
B	s • 2	d • 0	Class B s2 d0

Slats with light slits

Alugix-39.5, Alugix-42, E-45, Alugix-45, Alugan-45, Alugix-50, Alugix-55, Alugix-546 and Alugix-56.

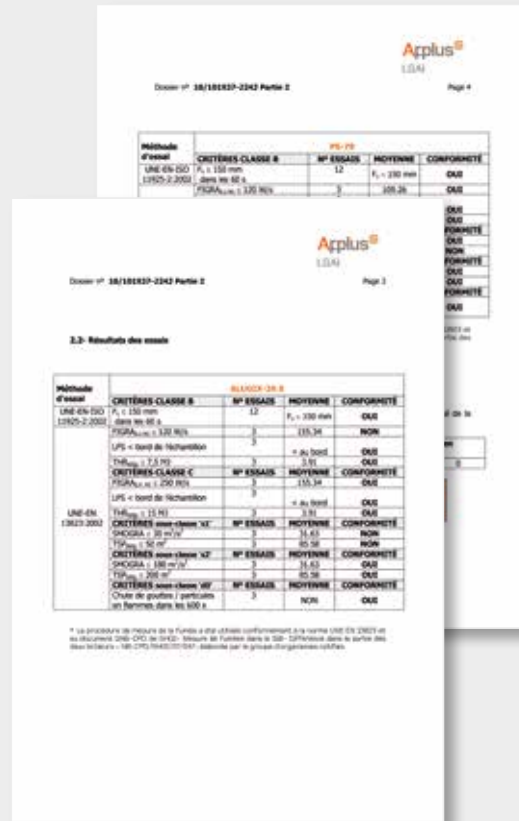
Behavior to fire	Smoke production	Flame drops	Classification of reaction to fire
C	s • 2	d • 0	Class C s2 d0

Reaction to fire tests

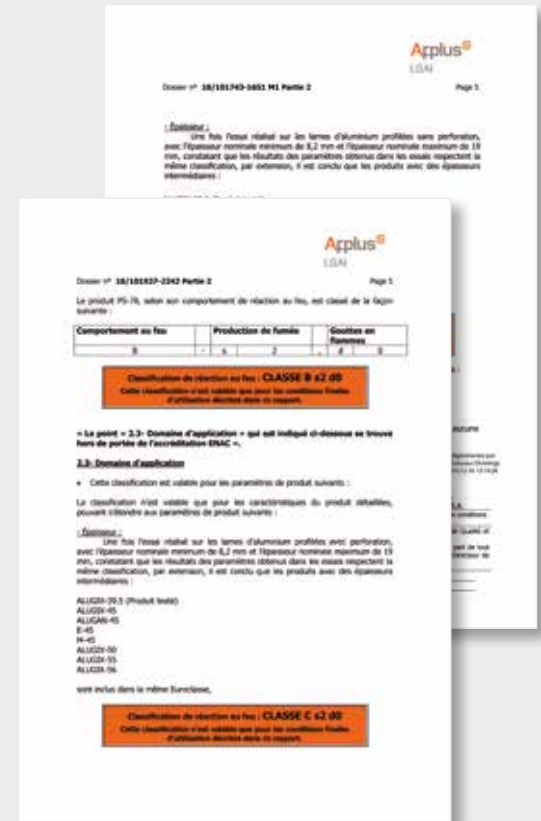
Reaction to Fire tests for different models of foam filled roll formed aluminium slats manufactured by Saxun.



Characteristics of the product
Alugix-39.5 and PS-78



Results of tests
Alugix-39.5 and PS-78



Classification of Reaction of Fire
Alugix-39.5 and PS-78



Rolling door test laboratory

Saxun has a sophisticated technological center where all the trials and tests are carried out to certify the guarantee of any of the systems manufactured.

Aluminium and powder coated

The aluminium slats produced and manufactured by Saxun have an advanced design to comply with the strictest quality controls. Manufacturing is carried out with the most demanding raw materials and finishes on the market using the latest technologies.



Polyurethane foam density

According to the analysis carried out in the laboratories of the company Elastogram S.A. established in the town of Rubí and samples of our slats made with rigid polyurethane foam BASF, we have obtained the following results:

Density according

UNE EN ISO 845 de 75-250 kg/m³

Dimensional stability according

EN 1604 a 80°C ± 0.5 %

Dimensional stability according

EN 1604 a -20°C

These results were obtained after subjecting samples slat at temperatures of 80 °C and 20 °C for 24 hours.

BASF foam fully fills the cavity of the blade providing a high mechanical strength, torsional strength and also a certain thermoacoustic properties.

Furthermore, the foam is waterproof, resistant to aging and biochemically inert against molds.

Aluminium band

The aluminium strip used for making **Alugix-39.5, Alugix-42, E-45, Alugix-45, Alugan-45, Alugix-50, Alugix-55, Alugix-546, Alugix-56 and PS-78**, model corresponding to the 3005, temple H 46.

Metallic support

Alloys

EN AW-3005 (AL Mn1 Mg0,5) de HYDRO - According to EN 573-3.

Chemical composition:

	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Al
(%)	0.6	0.7	0.3	1.0-1.5	0.20-0.60	0.10	-	0.25	0.10	Rest

Temple

EN AW-3005 (AL Mn1 Mg0,5) de HYDRO - According to EN 1396.

Mechanical properties after the lacquered

Temple	Alloy	Breaking load	Limited elasticity	Elongation
		Rm (MPa)	Rp0,2 (Mpa)	A50 (%)
3005	H46	Maximum 230	-	-
-	-	Maximum 185	>160	>2

Dimension and tolerance

1/2 EN 485-4

Thickness

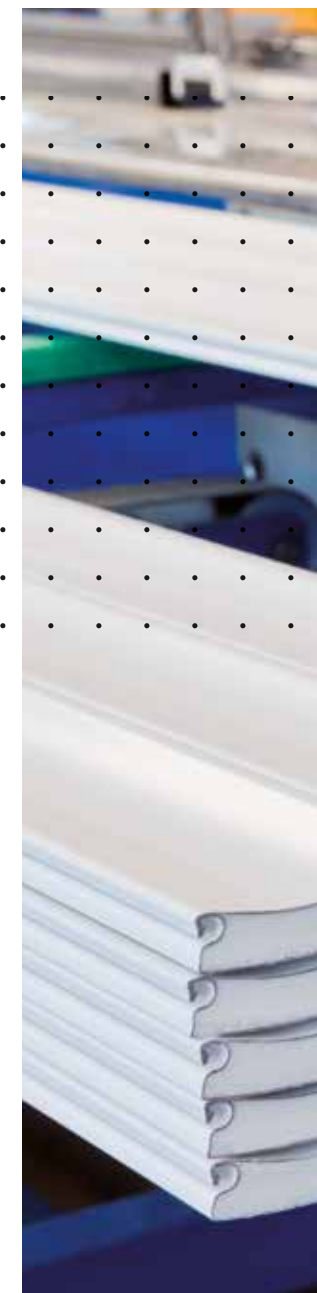
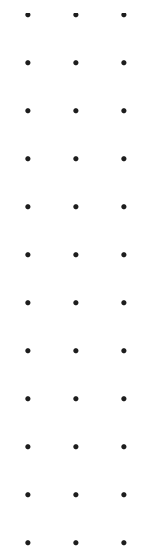
Metal thickness (mm)	Tolerance (mm)
0.23 - 0.25 - 0.48	± 0.02

Band width

Width (mm)	Tolerance (mm)
100 - 300	- 0/+0.3

Lacado

Pretreatment	a) Stretching b) Alkalic degreasing c) Chromated Cr ⁶⁺
Powder coated	a) Top side coated with PUR/PA thickness of coating depends on colour and gloss ca. 22 µm b) Reverse side protective coated, foamable with PUR
Properties of powder coated	
Bending	EN 13523-7 T 0.5 no loss of adhesion after tape test T 1 no cracks.
Cupping print	EN 13523-6 No loss of coating after tape test up to cracks on metal.
*Salt spray test after 500 and 1,000 hours	EN 13523-8 No blistering or loss of adhesion on even, untreated areas max. 3 mm Infiltration at the edges and max. 2 mm an the cut.
Water storage	EN 13523-9 No blistering and no loss of adhesion after 1,000 hours.
Resistance to abrasion	- < 30 mg of abrasion after 1,000 revolutions to 2 x 500 g the weight of the film Roll type CS 10.





Cleaning and maintenance

In order to prevent rusting, we recommend periodically cleaning the materials with water and neutral soap.

The minimum frequency is once per year, or more often for materials exposed to aggressive environments (ocean, industrial, presence of suspended dust, etc.).

It is important to rinse with plenty of water after using detergents to prevent salt formation on the slats' surface.

This periodic cleaning, appropriately carried out, eliminates exogenous agents on the slat's surface that

may attack the covering and the aluminium, lengthening the life span of the blind and its aesthetic elements.

**The aluminium band used to manufacture our profiled slats has the highest antirust properties.*

Saxun certifies that its products are manufactured by following a strict internal quality control, and that all of the materials used in manufacture are subject to AENOR – ISO standards.

Extruded aluminium

The aluminium profiles that we use in our factories are extruded with 6060/6063 alloys and a T5 Temper, and their finishes are produced following the specifications of the Qualicoat, Qualideco and Qualanod quality brands.

These alloys and their tempering are suitable for the entire range of profile products for construction and metalwork, as well as architectural and structural applications for general use where a decorative application is sought.

Extrusion process

To perform extrusion, the aluminium is supplied in cylindrical ingots, which are also known as "billets". The extrusion process involves applying heat and pressure to the aluminium cylinder (or "billet") by passing it through a mould (or "matrix"), to achieve the desired shape. Each type of profile has a suitable "mould", known as its matrix, which determines its shape.

Once the aluminium has been extruded, ageing and tempering processes are applied to achieve the properties prescribed for each application.



Cylindrical ingots also called "billets", to obtain straight aluminium profiles and eliminate any tension in the material, they are stretched. They are then cut into suitable lengths and artificially aged to achieve the appropriate strength.

Aluminium treatments and finishes

The aluminium is marketed with a wide variety of finishes and options, with some of the most prominent listed below.

Anodised

The aluminium forms a thin film of aluminium oxide on its surface after being extruded, to protect itself from the action of atmospheric agents; this has a more or less regular thickness of around 0.01 microns and grants it very slight antioxidation and anticorrosion properties.

There is an electrolytic chemical process known as anodising that allows us to artificially obtain oxide films that are much thicker and offer better protection than naturally-formed layers.

Depending on the desired layer thickness, there are **two anodising processes**:

- **Decorative, coloured anodising.**
- **Surface-strengthening anodising.**



The advantages of anodising are:

- An anodised outer layer is more durable than one obtained via painting.
- An anodised layer cannot peel, as it is part of the metal itself.
- Anodising gives aluminium highly variable, decorative looks by allowing it to be coloured in whatever shades you wish.
- Sunlight doesn't affect anodised layers and as such, cannot damage them.

Lacquer

Lacquer, which is applied to aluminium profiles, consists of a powdered paint applied to the aluminium surface via an electrostatic process. The most popular paints for such applications are polyester-based, due to their high resistance to light and corrosion.

There is an infinite variety of colour and textures.

PVC

PVC is the result of the polymerisation of vinyl chloride monomer to polyvinyl chloride.

It is the most versatile plastic derivative and can be produced via four different processes: suspension, emulsion, mass and solution.

It can be characterised as ductile and strong; it offers dimensional stability and environmental resistance, and furthermore is recyclable by various methods.





- It has a high resistance to abrasion, along with a low density, good mechanical strength and impact, meaning it is ideal (and commonly used) for construction.
- It has a high resistance to abrasion, along with a low density, good mechanical strength and impact, meaning it is ideal (and commonly used) for construction.
- Highly resistant and durable.
- Because of the chlorine atoms that make up PVC polymer, it does not catch fire easily or burn independently, and stops burning once the heat source is removed. PVC profiles are used in construction for coatings, ceilings, doors and windows, due to their low flammability.
- An excellent thermal and electrical insulator.
- A wide range of hardnesses.
- It is highly resistant to corrosion.

Regulation applied to the manufacture of PVC slats

EN 53141 Characteristics of non plasticised polyvinyl chloride (PVC-U) profiles for rolling shutter slats.

This standard applies to all rolling shutter slats, blinds and doors, whatever their design, made by PVC-U extrusion, which are normally used in construction.

All our PVC slats are manufactured in compliance with the minimum requirements that must be met by non plasticised polyvinyl chloride (PVC-U) profiles for the manufacture of rolling shutter slats, as well as some of the internal tests and methods used to determine such characteristics.

PVC slat tests

Determination of appearance and **UNE colour 53141.**

Determination of **UNE 53141.**

Determination of weight per **UNE unit of length: 53141.**

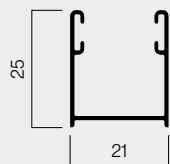
Determination of resistance to **UNE coupling 53141.**

Determination of thermal shrinkage **EN 479.**

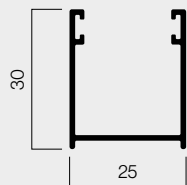
Determination of impact properties via Charpy tests **EN ISO 179-1.**

Determination of resistance to aging in artificial weather **EN 513.**

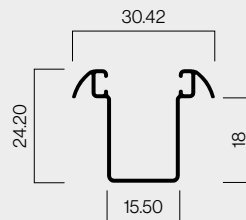
Aluminium guide channels



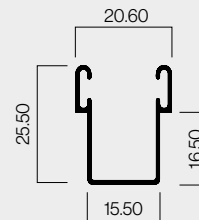
REF 1229
027028



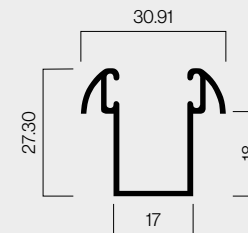
30x25
027488



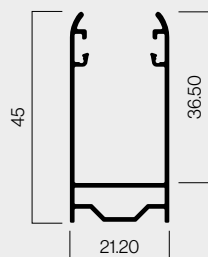
V-25 REF. 9182
026002



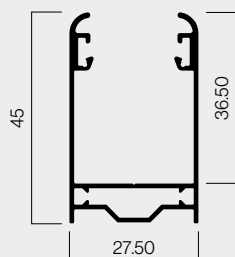
V-25 REF. 9178
026046



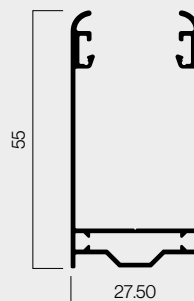
V-45
027506



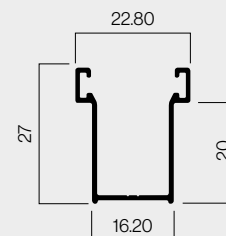
ZF-8
027521



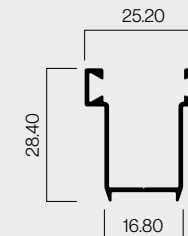
ZF-14
027531



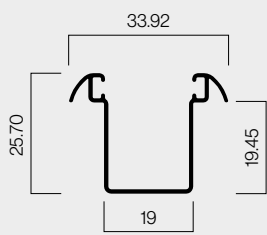
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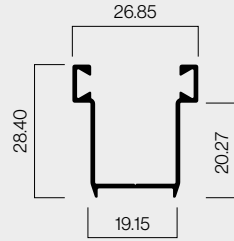
16.20x27
027487



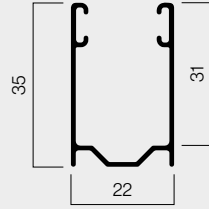
16.80x28.40
027511



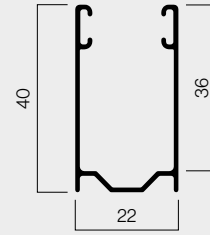
V-55 Super
026091



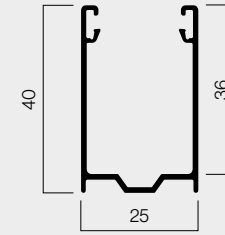
19.15x28.40
027507



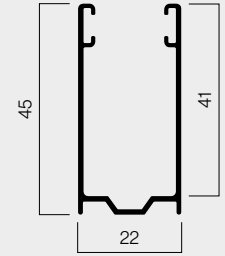
UP-3.5
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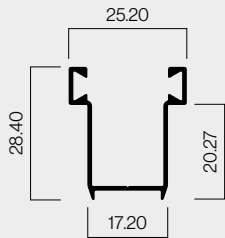
UP-40/22
504171



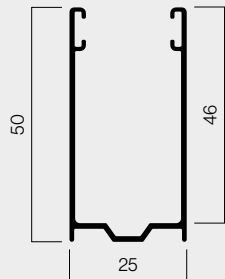
UP-40/25
504031



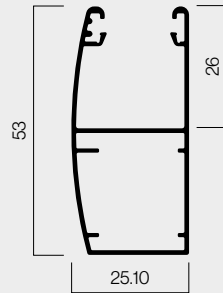
UP-45/22
504151



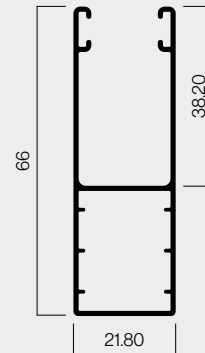
17.20x28.40
027508



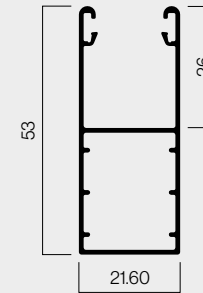
UP-50/25
504161



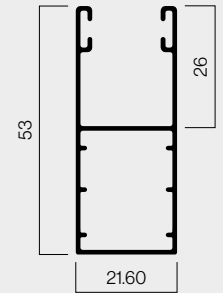
HR-C-25
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H-66
5027431

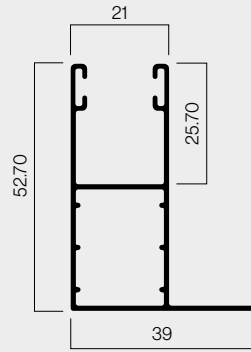


H-25-FC
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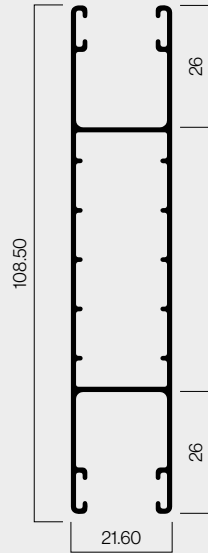


H-25
027032

Aluminium guide channels



HC-25
027035

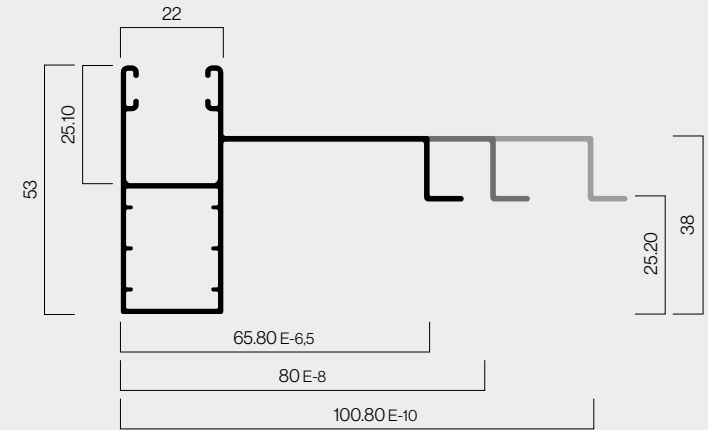


HD-25
027148

E-6.5
027108

E-8
027084

E-10
027093



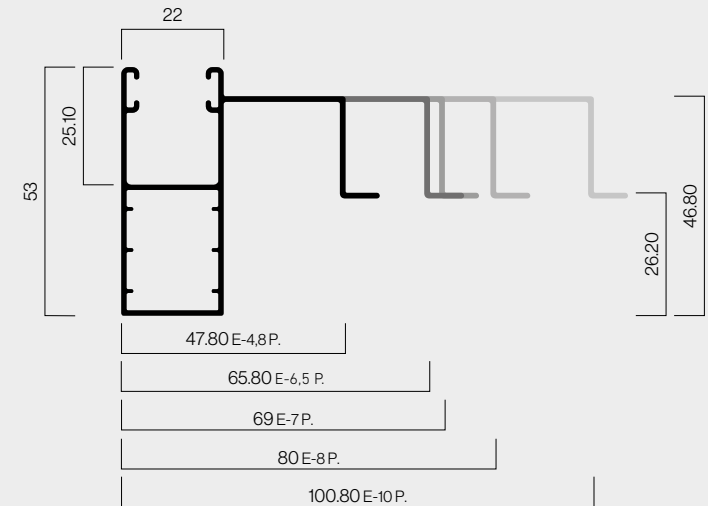
E-4.8
Premarco
027135

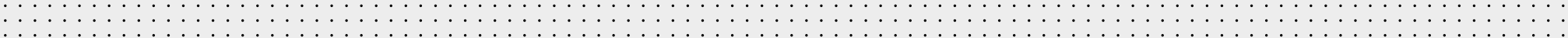
E-6.5
Premarco
027471

E-7
Premarco
027621

E-8
Premarco
027286

E-10
Premarco
027481

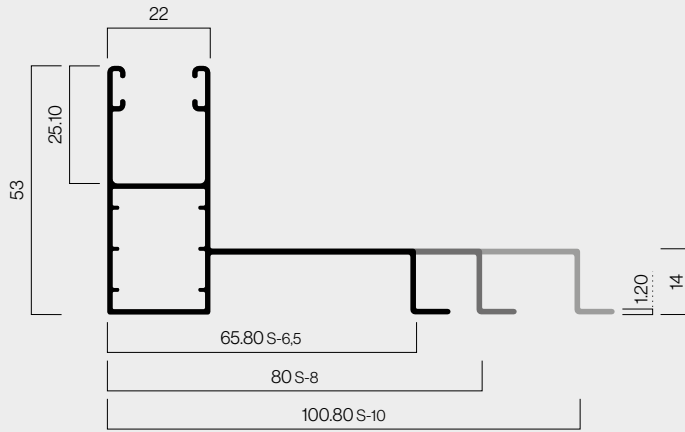




S-6.5
027105

S-8
027089

S-10
027103

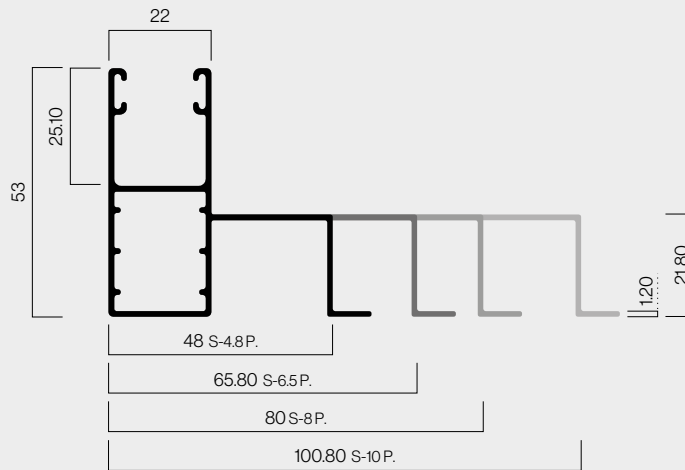


S-4.8
Framework
027402

S-6.5
Framework
027486

S-8
Framework
027491

S-10
Framework
027510



Aluminium guide channels

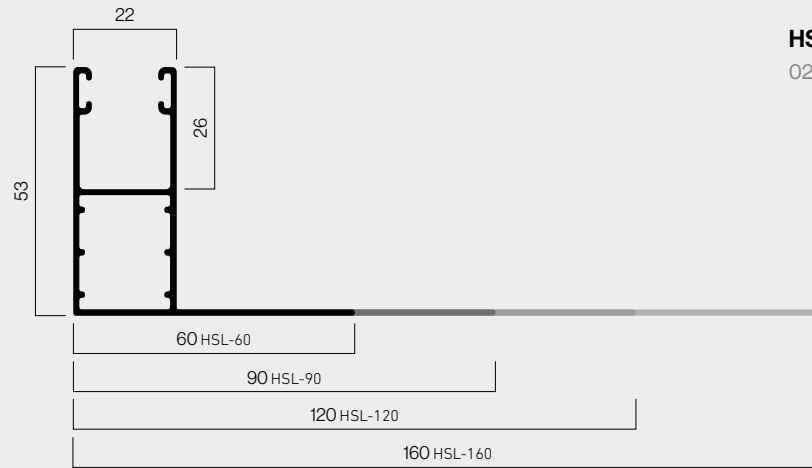


HSL-60
027143

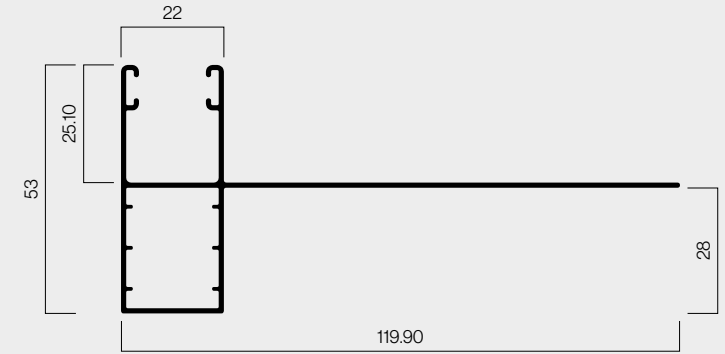
HSL-90
027293

HSL-120
027137

HSL-160
027560

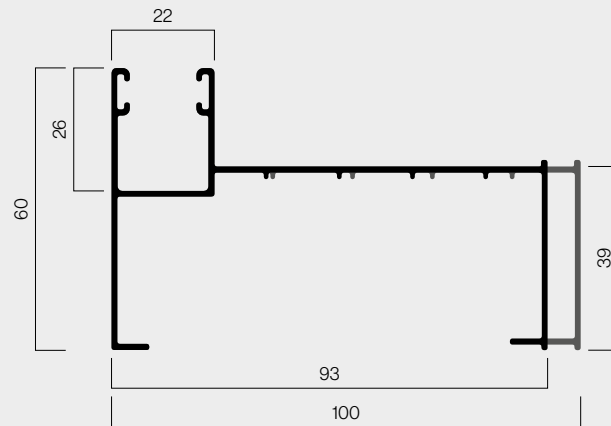


HSL-E-120
027139



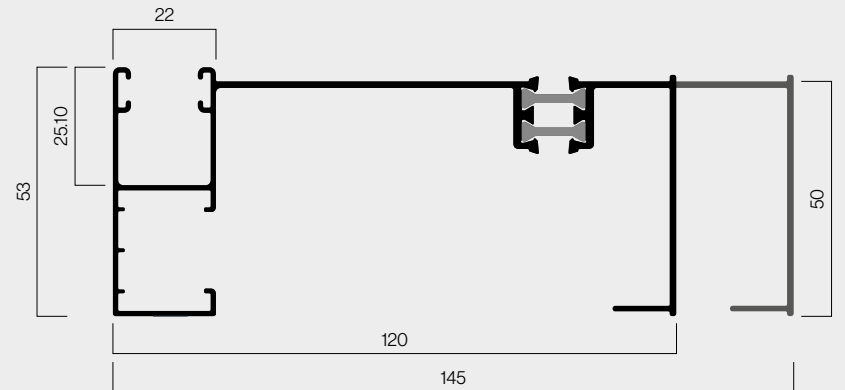
HSL-A-93
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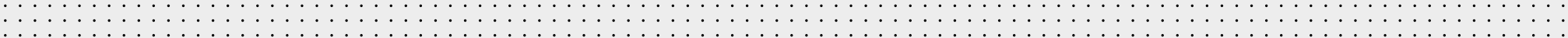
HSL-A-100
027911



HSL-A-120 Thermal Break
027242

HSL-A-145 Thermal Break
043026





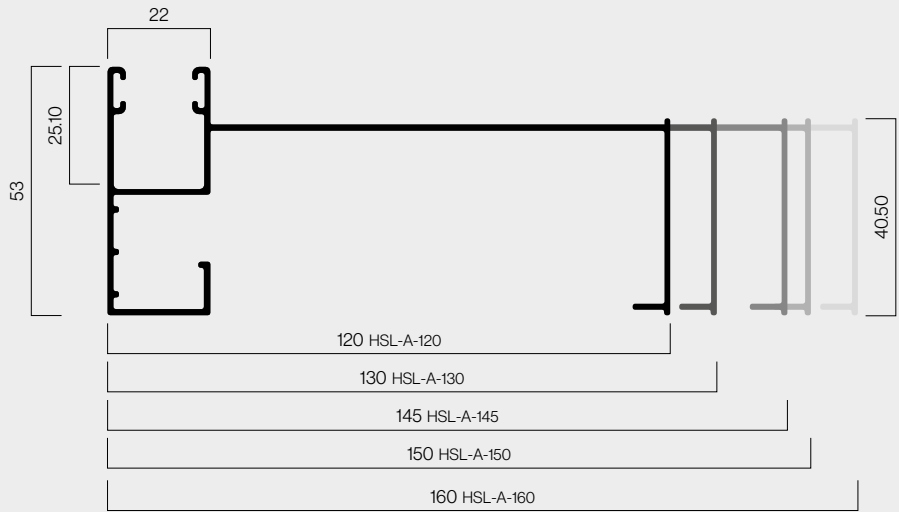
HSL-A-120
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HSL-A-130
027550

HSL-A-145
027581

HSL-A-150
027921

HSL-A-160
027186

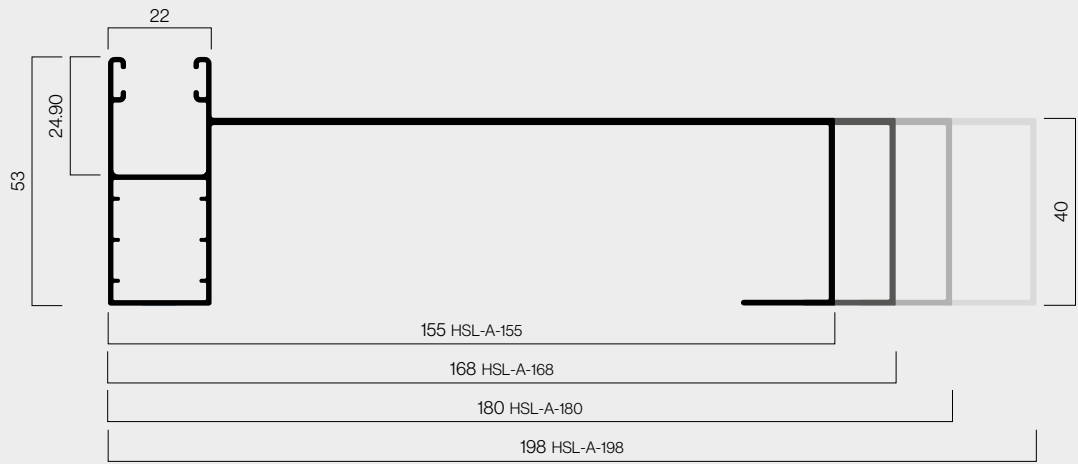


HSL-A-155
027572

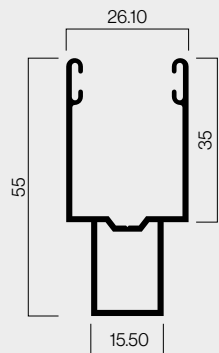
HSL-A-168
027540

HSL-A-180
027570

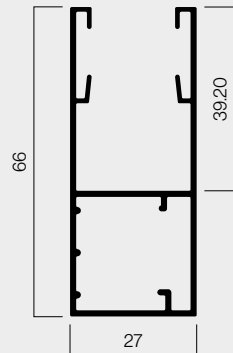
HSL-A-198
027571



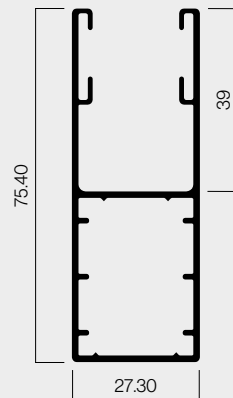
Aluminium guide channels



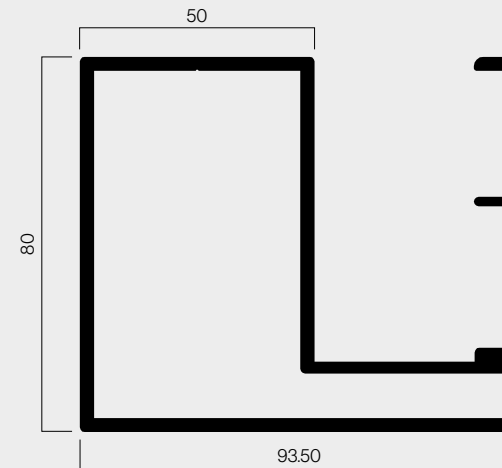
VH
504022



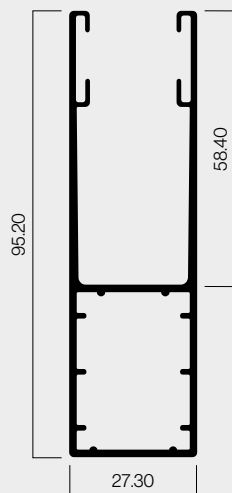
UPS-6.5
504007



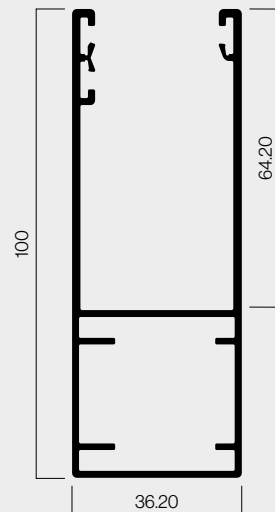
UPS-7.5
504012



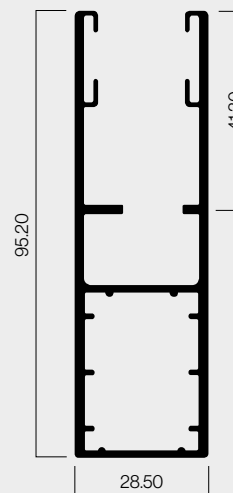
Lodge-guide 94x80
027429



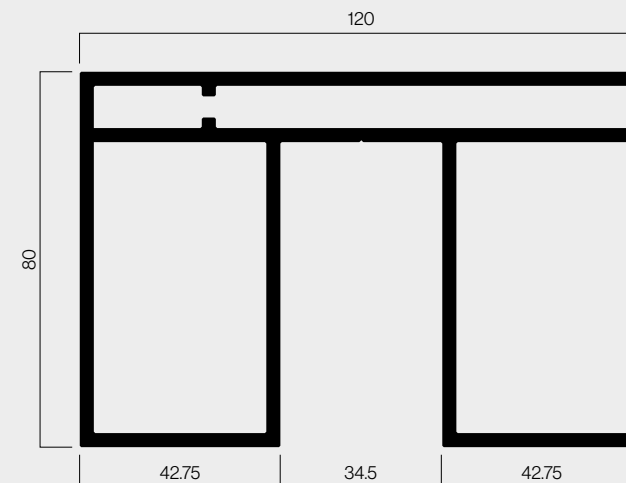
UPS-9.5
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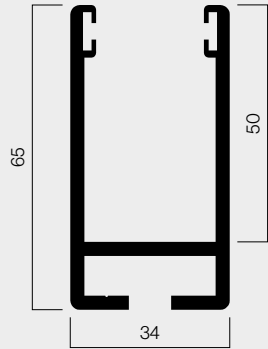
UPSB-36/100
504013



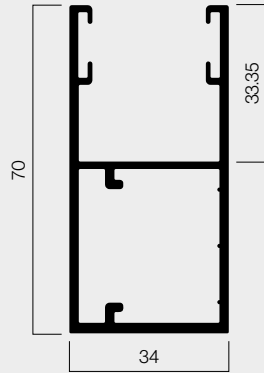
UPH-95
504069



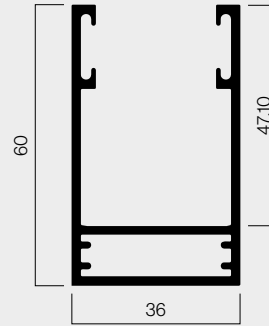
Lodge-guide double 120x80 N
504078



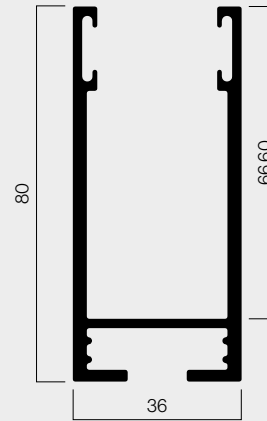
GE-34/65
027430



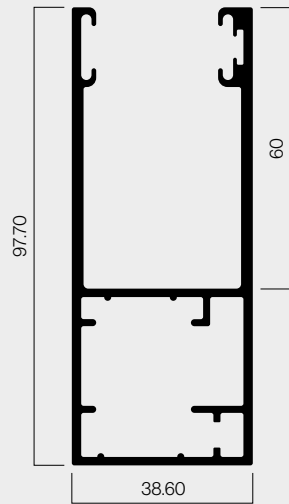
GE-34/70
504041



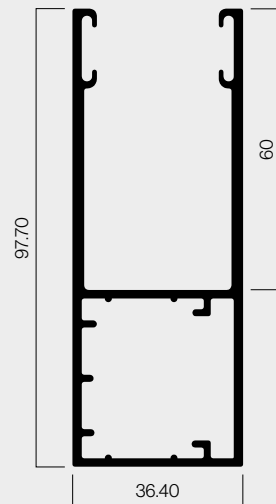
GE-36/60
504038



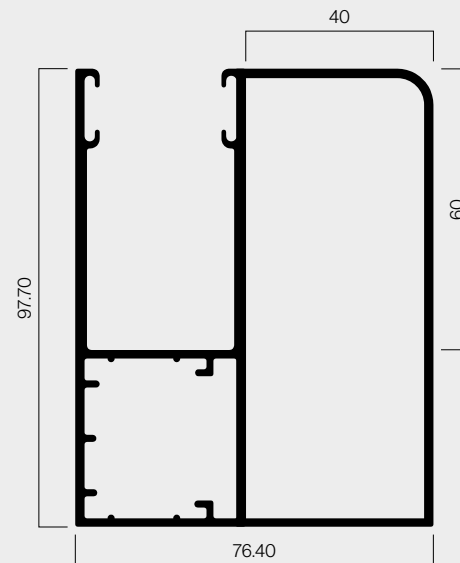
GE-36/80
504045



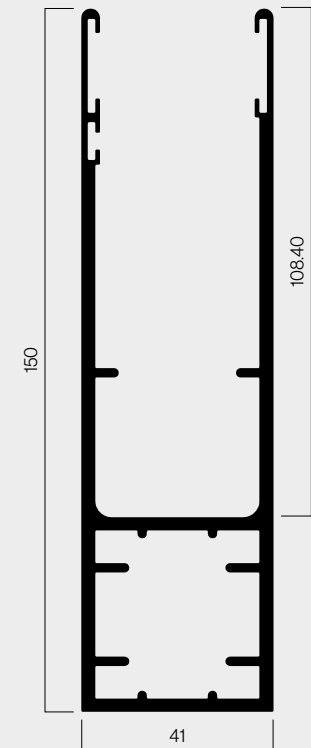
GE-38/100
504061



GE-36/100
504042

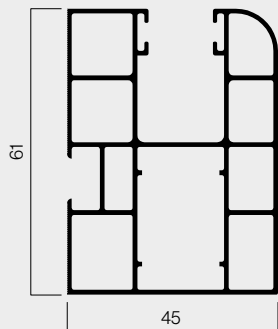


GE-76/100
504072



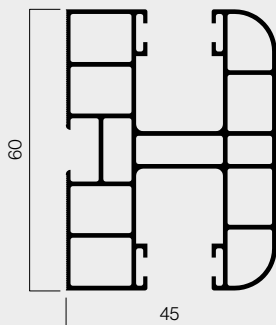
GE-41/150
504000

PVC guide channels and extensions



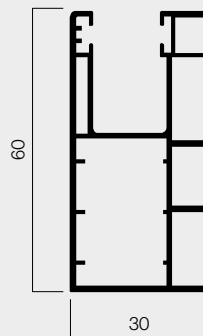
60x45

Compatibility with Central 60x45
041150



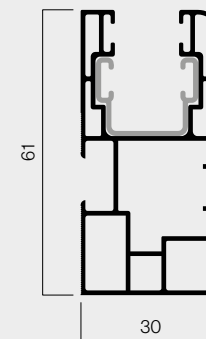
Central 60x45

Compatibility with 55x45 • 60x45
041152



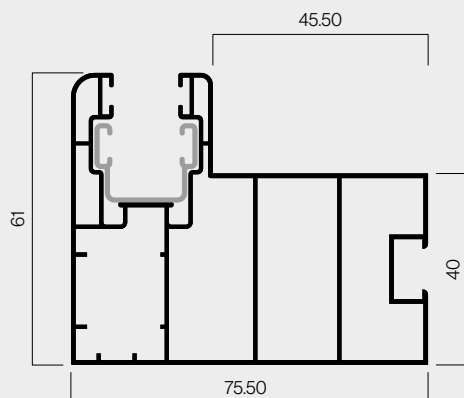
60x30 R

041020



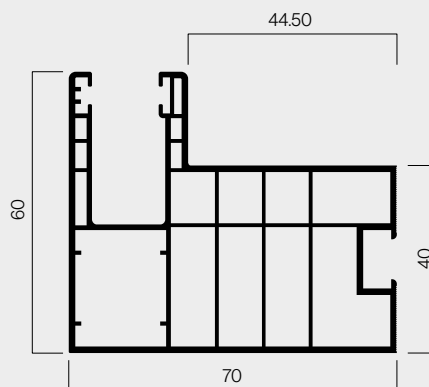
60x30

Compatibility with Central 70x30
041008



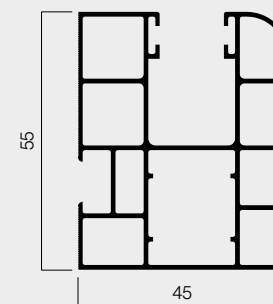
60x75.5

Compatibility with Central 70x30
041203



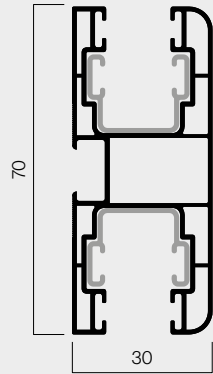
60x70

Compatibility with Central 70x30
041011



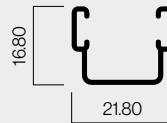
55x45

Compatibility with Central 60x45
041001



Central 70x30

Compatibility with 60x30 • 60x75,5
041017



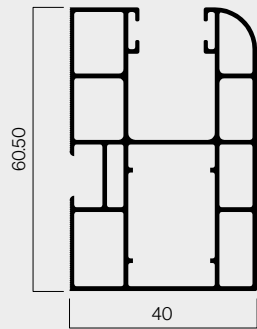
V-15 (Optional)

Compatibility with Central 60x75,5
Central 70x30 • 60x30
027326



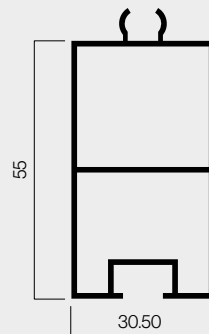
Big head screw (Optional)

Compatible with guides PVC
046160



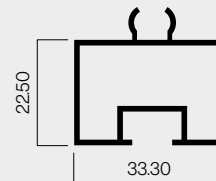
60x40

049020



**Fly Screen
PVC 30x55**

041111



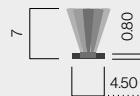
**Fly Screen
PVC 33x22.5**

041112

Brushes



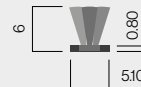
38-550
026005



45-700
026210



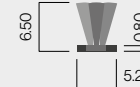
4.8-4.5
Non available



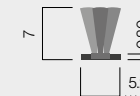
5.1x6 3 P1L
507506



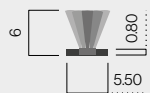
5.1-600
Non available



5.2-650
Non available



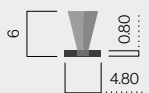
5.2-700
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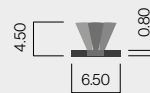
5.5x6-3P
008780



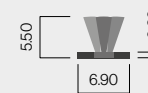
4.8-6
Duro
026209



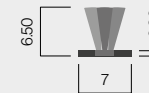
PB-48-600-2P2LB
Soft
026207



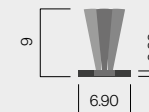
65-450
026083



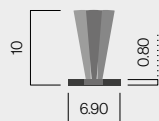
69-550
026015



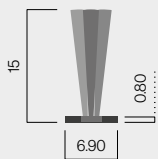
7x6.5-3P
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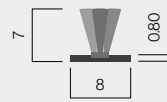
69-900
026211



69-1000
041068



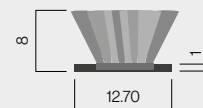
69-1500-3PB
026206



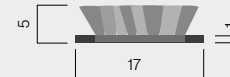
80-700
041054



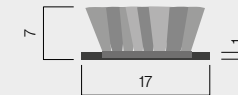
PB-127-700-6P
507151



PB-127-800-8P
507153

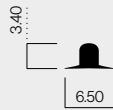


170-500-8P
507137

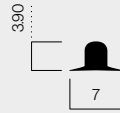


170-700-8P
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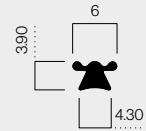
Rubber bands



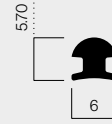
PS-40 Self- locking
PS-48 Self- locking
 027341



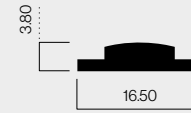
PS-45 Self- locking
 033005



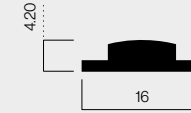
Profile
 PVC Sup.
 505061



Guide 34-65
 027447



165-38
 507147



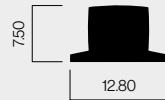
160-40
 507145



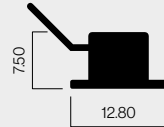
120-50
 507139



120-60
 507142



128-75
 507068



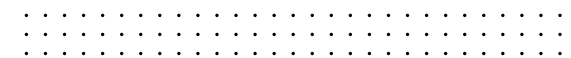
128-75 S
 507442



41-150
 507152

Foam filled roll formed aluminium slats

Guide channels compatibility with brush/rubber band



Guide channels compatibility with brush/rubber band

Guide channels	Slat model					
	Alugix-39.5	E-45	Alugix-42	Alugix-45	Alugan-45	Alugix-50
¹ UP-#/22	● 69-550	● 69-550	● 69-550	● 69-550	● 69-550	● 65-450
UP-40/25						● 5.5x6-3P
UP-50/25						
ZF-8	● 5.5x6-3P	● 5.5x6-3P	● 5.5x6-3P	● 5.5x6-3P	● 5.5x6-3P	● PB-48-600-2P2LB
ZF-14 / ZF-55						
H-25-FC / HR-C-25	● 5.5x6-3P	● 5.5x6-3P	● 5.5x6-3P	● 5.5x6-3P	● 5.5x6-3P	● PB-48-600-2P2LB
² H / HSL / HSL-A / HSL-E / E / S	● 69-550	● 69-550	● 69-550	● 69-550	● 69-550	● 65-450
H-66	● 69-550	● 69-550	● 69-550	● 69-550	● 69-550	● 65-450
REF.1229	● 69-550	● 69-550	● 69-550	● 69-550	● 69-550	
30/25						
16.20x27						
16.80x28.40 / 17.20x28.40	● 5.2-750 *	● 5.2-750 *	● 5.2-750 *	● 5.2-750 *	● 5.2-750 *	● 5.2-650 *
19.15x28,40						
V-25 REF. 9178	● 69-550	● 69-550	● 69-550	● 69-550	● 69-550	
V-25 REF. 9182	● 38-550	● 38-550	● 38-550	● 38-550	● 38-550	
V-45	● 69-550	● 69-550	● 69-550	● 69-550	● 69-550	● 65-450
V-55						
³ PVC	● 69-550	● 69-550	● 65-450	● 65-450	● 69-550	
60x30 R 2020/60x70	● 69-550	● 69-550	● 69-550	● 69-550	● 69-550	● 65-450
⁴ UPS						
VH						
GE-34/65						
GE-34/70						
⁵ GE-36/#						
GE-38/100						
GE-41/150						
UPSB-36/100						
UPH 9.5						

Slat model

Alugix-55	Alugix-546	Alugix-56	PS-78
● 4.8-4.5 *	● PB-48-600-2P2LB	● PB-48-600-2P2LB	
● 65-450	● 69-550	● 69-550	
● PB-48-600-2P2LB	● 5.5x6-3P	● 5.5x6-3P	
● 5.1-600 *	● 5.1-600 * ● 5.2-650 *	● 5.1-600 * ● 5.2-650 *	
● 38-550	● 38-550	● 38-550	
● 170-500-8P	● 170-500-8P	● 170-500-8P	
			● PB-127-700-6P
			● PB-127-800-8P
			● PB-127-800-8P
			● 69-1500-3PB ● 41/150
			● 69-1000
			● 69-1000

* Articles not available.

Brushes with sizes recommended to use for guide channels:

16.80x28.40

17.20x28.40

19.15x28.40

according to schedule.

¹ UP-#/22 = UP-35/22
UP-40/22 / UP-45/22

² H / HSL / HSL-A/E = H-25 /
HC-25 / HD-25 / HSL / HSL-A /
HSL-E / E / S

³ PVC = Central 70x30 / Central
60x45 / 60x30 / 60x40 /
55x45 / 60x45 60x75.5

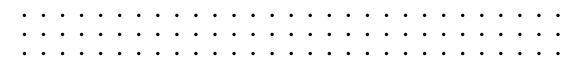
⁴ UPS = UPS-6.5 / UPS-7.5
UPS-9.5

⁵ GE-36/# = GE-36/60 /
GE-36/80 / GE-36/100
GE-76/100

● Brushes ● Rubber bands

Extruded aluminium slats

Guide channels compatibility with brush/rubber band



Guide channels compatibility with brush/rubber band

Guide channels	Slat model								
	PS-25 R	PS-40	PS-40 S.L.	PS-45 S.L.	PM-45	PS-45 Flat	PS-48 S.L.	PM-49	PS-53
¹ UP-#/22	● 65-450	● 69-550	● PS-40/48 Auto.	● PS-45 Auto.	● PS-40/48 Auto.	● 65-450	● PS-40/48 Auto.	● 69-550	
UP-40/25									
UP-50/25									
ZF-8	● 4.8-4.5 *	● 5.5x6-3P						● 5.5x6-3P	
ZF-14 / ZF-55									
H-25-FC / HR-C-25	● 4.8-4.5 *	● 5.5x6-3P						● 5.5x6-3P	
² H / HSL / HSL-A / HSL-E / E / S	● 65-450	● 69-550	● PS-40/48 Auto.	● PS-45 Auto.	● PS-40/48 Auto.	● 65-450	● PS-40/48 Auto.	● 69-550	
H-66	● 65-450	● 69-550				● 65-450		● 69-550	
REF.1229	● 65-450	● 69-550				● 65-450		● 69-550	
30/25									
16.20x27									
16.80x28.40 / 17.20x28.40	● 5.2-650	● 5.2-750 *				● 5.2-650 *		● 5.2-750 *	
19.15x28.40									● Sup. PVC profile
V-25 REF. 9178		● 69-550				● 65-450		● 69-550	
V-25 REF. 9182		● 38-550						● 38-550	
V-45	● 65-450	● 69-550	● PS-40/48 Auto.	● PS-45 Auto.	● PS-40/48 Auto.	● 65-450	● PS-40/48 Auto.	● 69-550	
V-55									
³ PVC	● 65-450	● 69-550	● (+ V-15) PS-40/48 Auto.	● (+ V-15) PS-45 Auto.	● (+ V-15) PS-40/48 Auto.	● (+V-15) 65-450	● (+ V-15) PS-40/48 Auto.	● 69-550	
60x30 R 2020/60x70	● 65-450	● 69-550				● 65-450		● 69-550	
⁴ UPS									● 165-38
VH									● PS-40/48 Auto.
GE-34/65									
GE-34/70									
⁵ GE-36/#									
GE-38/100									
GE-41/150									
UPSB-36/100									
UPH 9.5									● 165-38

Slat model

PS-55 S	PS-64	PS-64 M	PS-65 S.L.	TL-77	PS-79	PS-80 S.L.	PS-85 Flat	PS-100 Flat
● PB-48-600-2P2LB	● 4.8-4.5 *							
● 69-550	● 65-450	● 65-450						
● 5.5x6-3P								
● 5.1-600 *								
● 5.2-650 *	● 5.1-600 *	● 5.1-600 *						
● 170-700-8P *	● 160-40	● 160-40	● 160-40					
							● PS-40/48 Auto.	● PS-40/48 Auto.
							● Guide 34-65	● Guide 34-65
					● PB-127-700-6P			
				● 128-58	● 120-60	● 120-50	● 128-75 128-75 S	● 128-75 128-75 S
				● 128-58	● 120-60	● 120-50	● 128-75 128-75 S	● 128-75 128-75 S
	● 160-40							

* Articles not available.

Brushes with sizes recommended to use for guide channels:
16.80x28.40
17.20x28.40
19.15x28.40

according to schedule.

¹ UP-#/22 = UP-35/22
 UP-40/22 / UP-45/22

² H / HSL / HSL-A/E = H-25 /
 HC-25 / HD-25 / HSL / HSL-A /
 HSL-E / E / S

³ PVC = Central 70x30 / Central
 60x45 / 60x30 / 60x40 /
 55x45 / 60x45 60x75.5

⁴ UPS = UPS-6.5 / UPS-7.5
 UPS-9.5

⁵ GE-36/# = GE-36/60 /
 GE-36/80 / GE-36/100
 GE-76/100

● Brushes ● Rubber bands

PVC slats

Guide channels compatibility with brush/rubber band

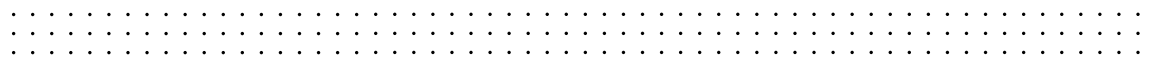


PVC Guides channels compatibility with brush/rubber band

Guide channels	Slat model			
	Mini-39	Mini-40 Special	Mini-47	R-50
¹ UP-#/22	● 7x6.5-3P *	● 69-550	● 69-550	
UP-40/25				● 4.8-4.5 *
UP-50/25				● 65-450
ZF-8	● 5.5x6-3P	● 5.5x6-3P	● 5.5x6-3P	
ZF-14 / ZF-55				● 4.8-4.5 *
H-25-FC / HR-C-25	● 5.5x6-3P	● 5.5x6-3P	● 5.5x6-3P	
² H / HSL / HSL-A / HSL-E / E / S	● 7x6.5-3P *	● 69-550	● 69-550	
H-66	● 7x6.5-3P *	● 69-550	● 69-550	
REF.1229	● 7x6.5-3P *	● 69-550	● 69-550	
30/25				
16,20x27				
16,80x28,40 / 17,20x28,40	● 5.2-750 *	● 5.2-750 *	● 5.2-750 *	
19,15x28,40				● 5.2-550 *
V-25 REF.9178	● 7x6.5-3P *	● 69-550	● 69-550	
V-25 REF.9182	● 38-550	● 38-550	● 38-550	
V-45	● 7x6.5-3P *	● 69-550	● 69-550	
V-55				
³ PVC	● 7x6.5-3P *	● 69-550	● 69-550	
60x30 R 2020/60x70	● 7x6.5-3P *	● 69-550	● 69-550	
⁴ UPS				● 170-500-8P
VH				
GE-34/65				
GE-34/70				
⁵ GE-36/#				
GE-38/100				
GE-41/150				
UPSB-36/100				
UPH 9.5				

Foam filled roll formed aluminium slats

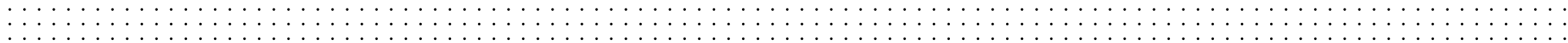
Compatibility rolling diameter



Total height including box

Slats	Spring and axle	Euroblock/Eurodecor/ Eurostand PVC						Aluminum box RV (profiled)							
		155	170	185	200	225	137	150	165	180	205	250	300	360	400
Alugix-39.5	Mixed spring lock (axle 60)	1,800	2,050	2,700	3,250	4,840	1,440	1,965	2,480	2,900	4,040	-	-	-	-
Alugix-42	Mixed spring lock (axle 60)	1,715	2,100	2,575	3,200	4,400	1,400	1,750	2,320	2,690	3,830	-	-	-	-
E-45	Mixed spring lock (axle 42)	1,830	2,555	3,055	3,620	4,900	-	-	-	-	-	-	-	-	-
	Mixed spring lock (axle 60)	1,700	2,120	2,900	3,400	4,540	1,400	2,020	2,595	3,040	4,550	-	-	-	-
Alugix-45	Mixed spring lock (axle 60)	1,540	1,980	2,425	2,935	4,110	1,370	1,740	2,200	2,670	3,760	-	-	-	-
Alugan-45	Mixed spring lock (axle 60)	1,120	1,350	1,640	2,150	2,700	1,020	1,160	1,500	1,950	2,700	-	-	-	-
Alugix-50	Mixed spring lock (axle 60)	1,300	1,700	2,150	2,500	3,360	1,040	1,360	1,800	2,230	2,900	-	-	-	-
Alugix-55	Mixed spring lock G arrow axle (axle 60)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mixed spring lock G arrow axle (axle 70)	-	-	-	-	-	-	-	-	-	-	2,500	4,100	-	-
	Self-locking spring 2/3 elements (axle 100)	-	-	-	-	-	-	-	-	-	-	2,590	3,965	6,360	-
	Self-locking spring 2/3 elements (axle 130)	-	-	-	-	-	-	-	-	-	-	-	3,860	-	-
Alugix-546	Mixed spring lock G arrow axle (axle 60)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mixed spring lock G arrow axle (axle 70)	-	-	-	-	-	-	-	-	-	-	3,530	5,525	-	-
	Self-locking spring 2/3 elements (axle 100)	-	-	-	-	-	-	-	-	-	-	3,470	5,035	-	-
Alugix-56	Mixed spring lock G arrow axle (axle 60)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mixed spring lock G arrow axle (axle 70)	-	-	-	-	-	-	-	-	-	-	3,850	5,695	-	-
	Self-locking spring 2/3 elements (axle 100)	-	-	-	-	-	-	-	-	-	-	2,900	5,650	-	-
PS-78	Self-locking spring 2/3 elements (axle 70)	-	-	-	-	-	-	-	-	-	-	1,825	3,035	-	6,185
	Self-locking spring 2/3 elements (axle 100)	-	-	-	-	-	-	-	-	-	-	2,000	3,100	4,885	5,500
	Self-locking spring 2/3 elements (axle 130)	-	-	-	-	-	-	-	-	-	-	-	-	4,420	-
	Arrow spring lock for pulley (220)	-	-	-	-	-	-	-	-	-	-	-	-	3,070	3,900

Sizes are in mm



Slats	Spring and axle	Winblock			Alex
		155	200	230	250
Alugix-39.5	Mixed spring lock (axle 60)	1,625	3,210	4,880	-
Alugix-42	Mixed spring lock (axle 60)	1,575	3,060	4,765	-
E-45	Mixed spring lock (axle 42)	-	-	-	-
	Mixed spring lock (axle 60)	1,560	3,500	5,050	-
Alugix-45	Mixed spring lock (axle 60)	1,370	2,890	4,270	-
Alugan-45	Mixed spring lock (axle 60)	970	1,970	3,010	-
Alugix-50	Mixed spring lock (axle 60)	1,150	2,340	3,460	-
Alugix-55	Mixed spring lock G arrow axle (axle 60)	-	-	2,400	2,770
	Mixed spring lock G arrow axle (axle 70)	-	-	-	2,500
	Self-locking spring 2/3 elements (axle 100)	-	-	-	2,375
	Self-locking spring 2/3 elements (axle 130)	-	-	-	-
Alugix-546	Mixed spring lock G arrow axle (axle 60)	-	-	2,630	3,340
	Mixed spring lock G arrow axle (axle 70)	-	-	2,800	3,500
	Self-locking spring 2/3 elements (axle 100)	-	-	-	3,100
Alugix-56	Mixed spring lock G arrow axle (axle 60)	-	-	3,100	3,650
	Mixed spring lock G arrow axle (axle 70)	-	-	2,740	3,750
	Self-locking spring 2/3 elements (axle 100)	-	-	-	3,210
PS-78	Self-locking spring 2/3 elements (axle 70)	-	-	-	-
	Self-locking spring 2/3 elements (axle 100)	-	-	-	-
	Self-locking spring 2/3 elements (axle 130)	-	-	-	-
	Arrow spring lock for pulley (220)	-	-	-	-

Sizes are in mm

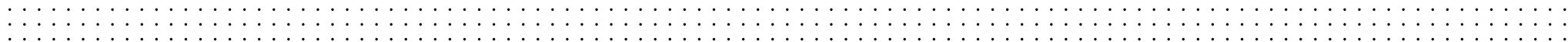
Extruded aluminium slats

Compatibility rolling diameter

Total height including box

Slats	Spring and axle	Euroblock/Eurodecor/ Eurostand PVC						Aluminum box RV (profiled)							
		155	170	185	200	225	137	150	165	180	205	230	250	300	360
PS-25 R	Metallic spring PS-45 (axle 60)	830	1,010	1,385	1,600	2,100	670	960	1,100	1,370	1,840	2,445	-	-	-
	Self-locking spring 2/3 elements special hitch (axle 60)	600	870	1,195	1,400	1,855	470	780	980	1,190	1,630	2,130	-	-	-
	Self-locking spring 2/3 elements special hitch (axle 70)	-	-	-	-	1,755	-	-	-	-	-	-	-	-	-
PS-40	Metallic spring arrow axle (axle 60)	1,300	1,650	2,150	2,550	3,550	1,300	1,500	1,850	2,150	3,100	-	-	-	-
	Self-locking spring 2/3 elements (axle 60)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PS-40 self-locking	Metallic spring arrow axle (axle 60)	1,450	1,800	2,250	2,650	3,600	1,300	-	1,900	2,400	3,250	-	-	-	-
	Self-locking spring 2/3 elements (axle 60)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PS-45 self-locking	Metallic spring PS-45 (axle 60)	1,250	1,850	2,000	2,300	3,215	1,200	1,340	1,850	2,200	2,600	-	-	-	-
PM-45	Metallic spring PS-45 (axle 60)	-	-	1,450	1,700	2,400	-	-	1,150	1,450	1,900	-	-	-	-
	Metallic spring PS-45 (axle 70)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PS-45 flat	Metallic spring arrow axle (axle 60)	-	-	-	1,230	1,730	-	-	-	1,650	1,690	-	-	-	-
	Self-locking spring 2/3 elements (axle 70)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PS-48 self-locking	Metallic spring arrow axle (axle 60)	1,345	-	2,305	2,770	3,630	1,057	1,350	2,017	2,449	2,893	-	-	-	-
	Self-locking spring 2/3 elements (axle 60)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PM-49	Mixed spring lock (axle 60)	1,130	1,430	1,800	2,150	2,970	970	1,130	1,485	1,845	2,655	3,265	-	-	-
	Mixed spring lock (axle 70)	-	-	-	1,960	2,430	-	-	-	1,845	2,410	3,120	-	-	-
	Self-locking spring 2/3 elements (axle 60)	930	1,300	1,650	1,960	2,525	630	930	1,260	1,650	2,460	2,925	-	-	-
	Self-locking spring 2/3 elements (axle 70)	-	-	-	1,130	2,280	-	-	-	1,110	1,870	2,310	-	-	-
	Union L&P 2 elements (axle 60)	1,130	1,390	1,700	2,050	2,970	870	1,130	1,430	1,840	2,655	3,170	-	-	-
PS-53	Small metal spring without protection (axle 70)	-	-	-	-	-	-	-	-	-	-	-	3,000	4,450	6,890
	Self-locking spring 2/3 elements (axle 70)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Self-locking spring 2/3 elements (axle 100)	-	-	-	-	-	-	-	-	-	-	-	2,590	4,400	6,470
	Self-locking spring 2/3 elements (axle 130)	-	-	-	-	-	-	-	-	-	-	-	-	-	6,260
	Arrow spring lock for pulley 220	-	-	-	-	-	-	-	-	-	-	-	-	-	3,800

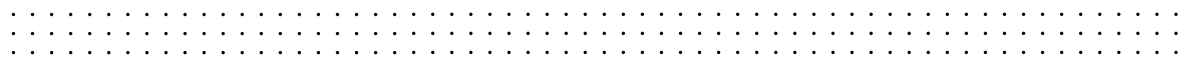
Sizes are in mm



Slats	Spring and axle	Winblock			Alex
		155	200	230	250
PS-25 R	Metallic spring PS-45 (axle 60)	-	1,625	3,210	-
	Self-locking spring 2/3 elements special hitch (axle 60)	-	1,410	2,100	2,630
	Self-locking spring 2/3 elements special hitch (axle 70)	-	-	1,900	2,335
PS-40	Metallic spring arrow axle (axle 60)	1,200	2,550	3,650	4,300
	Self-locking spring 2/3 elements (axle 60)	-	-	-	3,800
PS-40 self-locking	Metallic spring arrow axle (axle 60)	-	2,600	3,600	4,250
	Self-locking spring 2/3 elements (axle 60)	-	-	-	3,700
PS-45 self-locking	Metallic spring PS-45 (axle 60)	1,150	2,350	3,000	-
PM-45	Metallic spring PS-45 (axle 60)	-	1,700	2,600	3,000
	Metallic spring PS-45 (axle 70)	-	-	-	3,000
PS-45 flat	Metallic spring arrow axle (axle 60)	-	1,460	1,820	2,350
	Self-locking spring 2/3 elements (axle 70)	-	-	-	2,550
PS-48 self-locking	Metallic spring arrow axle (axle 60)	-	-	3,800	4,500
	Self-locking spring 2/3 elements (axle 60)	-	-	-	4,000
PM-49	Mixed spring lock (axle 60)	1,020	2,110	3,070	3,600
	Mixed spring lock (axle 70)	-	2,160	2,925	-
	Self-locking spring 2/3 elements (axle 60)	830	1,910	2,825	3,150
	Self-locking spring 2/3 elements (axle 70)	-	1,375	2,335	-
	Union L&P 2 elements (axle 60)	930	2,060	2,970	-
PS-53	Small metal spring without protection (axle 70)	-	-	2,300	2,950
	Self-locking spring 2/3 elements (axle 70)	-	-	-	2,650
	Self-locking spring 2/3 elements (axle 100)	-	-	-	-
	Self-locking spring 2/3 elements (axle 130)	-	-	-	-
	Arrow spring lock for pulley 220	-	-	-	-

Extruded aluminium slats

Compatibility rolling diameter



Total height including box

Slats	Spring and axle	Aluminum box RV (profiled)					
		205	230	250	300	360	400
PS-55 S	Mixed spring lock (axle 60)	2,635	-	-	-	-	-
	Mixed spring lock (axle 70)	2,300	-	3,520	5,470	-	-
	Self-locking spring 2/3 elements (axle 60)	2,300	-	3,520	5,580	-	-
	Self-locking spring 2/3 elements (axle 80)	1,970	-	3,240	5,250	-	-
PS-64	Small metal spring without protection (axle 70)	-	-	3,000	4,650	7,080	-
	Self-locking spring 2/3 elements (axle 100)	-	-	2,800	4,600	7,080	-
	Self-locking spring 2/3 elements (axle 130)	-	-	-	4,300	6,643	-
	Arrow spring lock for pulley (220)	-	-	-	2,600	4,540	-
PS-64 M	Small metal spring without protection (axle 70)	-	-	3,000	4,650	7,080	-
	Self-locking spring 2/3 elements (axle 100)	-	-	2,800	4,600	7,080	-
	Self-locking spring 2/3 elements (axle 130)	-	-	-	4,300	6,643	-
	Arrow spring lock for pulley (220)	-	-	-	2,600	4,540	-
PS-65 self-locking	Large steel spring with protection (axle 70)	-	-	2,800	4,000	6,250	-
	Self-locking spring 2/3 elements (axle 100)	-	-	2,600	3,800	6,250	-
	Self-locking spring 2/3 elements (axle 130)	-	-	2,400	3,600	6,532	-
PS-79	Axle spring drill flat slat (axle 100)	-	-	1,920	3,300	5,050	6,000
	Axle spring drill flat slat (axle 130)	-	-	1,860	3,200	4,575	5,600
	Arrow spring lock for pulley (220)	-	-	-	-	3,260	4,400
	Arrow spring lock for pulley (240)	-	-	-	-	-	3,670
	Arrow spring lock for pulley (280)	-	-	-	-	-	3,000
PS-80 self-locking	Axle spring drill R3000 350 (axle 100)	-	-	2,200	3,500	5,810	7,200
	Axle spring drill R3000 350 (axle 130)	-	-	1,800	3,000	4,880	6,200
PS-85 R	Arrow spring lock for pulley (220)	-	-	-	-	2,690	3,410
	Arrow spring lock for pulley (240)	-	-	-	-	-	3,070
	Arrow spring lock for pulley (280)	-	-	-	-	-	2,560
PS-100 R	Axle spring drill flat slat (axle 130)	-	-	-	2,750	4,370	5,030
	Arrow spring lock for pulley (220)	-	-	-	-	3,080	4,080
	Arrow spring lock for pulley (240)	-	-	-	-	-	3,230
	Arrow spring lock for pulley (280)	-	-	-	-	-	2,800

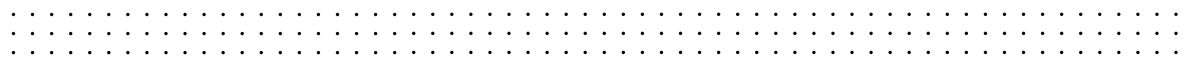
Sizes are in mm

Slats	Spring and axle	Winblock				Alex			
		155	200	230	250	350	400	400x450	450
PS-55 S	Mixed spring lock (axle 60)	-	-	2,665	3,300	-	-	-	-
	Mixed spring lock (axle 70)	-	-	2,790	3,020	-	-	-	-
	Self-locking spring 2/3 elements (axle 60)	-	-	2,665	3,070	-	-	-	-
	Self-locking spring 2/3 elements (axle 80)	-	-	2,510	2,760	-	-	-	-
PS-64	Small metal spring without protection (axle 70)	-	-	2,250	2,800	-	-	-	-
	Self-locking spring 2/3 elements (axle 100)	-	-	-	2,600	-	-	-	-
	Self-locking spring 2/3 elements (axle 130)	-	-	-	-	-	-	-	-
	Arrow spring lock for pulley (220)	-	-	-	-	-	-	-	-
PS-64 M	Small metal spring without protection (axle 70)	-	-	2,250	2,800	-	-	-	-
	Self-locking spring 2/3 elements (axle 100)	-	-	-	2,600	-	-	-	-
	Self-locking spring 2/3 elements (axle 130)	-	-	-	-	-	-	-	-
	Arrow spring lock for pulley (220)	-	-	-	-	-	-	-	-
PS-65 self-locking	Large steel spring with protection (axle 70)	-	-	2,300	2,550	-	-	-	-
	Self-locking spring 2/3 elements (axle 100)	-	-	-	2,450	-	-	-	-
	Self-locking spring 2/3 elements (axle 130)	-	-	-	-	-	-	-	-
PS-79	Axle spring drill flat slat (axle 100)	-	-	-	-	-	-	-	-
	Axle spring drill flat slat (axle 130)	-	-	-	-	-	-	-	-
	Arrow spring lock for pulley (220)	-	-	-	-	2,520	4,400	4,400	5,600
	Arrow spring lock for pulley (240)	-	-	-	-	1,900	3,670	3,670	5,070
	Arrow spring lock for pulley (280)	-	-	-	-	800	3,000	3,000	4,630
PS-80 self-locking	Axle spring drill R3000 350 (axle 100)	-	-	-	-	-	-	-	-
	Axle spring drill R3000 350 (axle 130)	-	-	-	-	-	-	-	-
PS-85 R	Arrow spring lock for pulley (220)	-	-	-	-	1,830	3,410	3,410	5,330
	Arrow spring lock for pulley (240)	-	-	-	-	1,150	3,070	3,070	4,310
	Arrow spring lock for pulley (280)	-	-	-	-	-	2,560	2,560	4,140
PS-100 R	Axle spring drill flat slat (axle 130)	-	-	-	-	-	-	-	-
	Arrow spring lock for pulley (220)	-	-	-	-	2,510	4,080	4,080	6,000
	Arrow spring lock for pulley (240)	-	-	-	-	1,850	3,230	3,230	5,030
	Arrow spring lock for pulley (280)	-	-	-	-	-	2,800	2,800	4,510

Sizes are in mm

PVC Slats

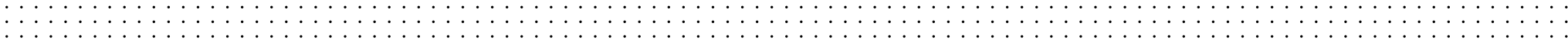
Compatibility rolling diameter



Total height including box

Slats	Spring and axle	Euroblock/Eurodecor/ Eurostand PVC						Aluminum box RV (profiled)								
		155	170	185	200	225	137	150	165	180	205	230	250	300	360	400
Mini-39	Mixed spring lock (axle 60)	1,755	2,350	3,000	3,275	5,100	1,670	-	2,860	3,500	4,800	-	-	-	-	-
Mini-40 special	Mixed spring lined G (axle 42)	1,520	1,960	2,360	2,800	3,855	-	-	-	-	-	-	-	-	-	-
	Mixed spring lined G (axle 60)	1,400	1,760	2,200	2,620	3,700	1,320	-	2,120	2,310	3,300	-	-	-	-	-
Mini-47	Mixed spring lined G (axle 60)	1,580	2,065	2,525	2,950	3,717	1,330	-	2,240	2,645	4,080	-	-	-	-	-

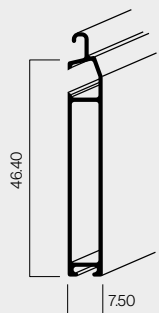
Sizes are in mm



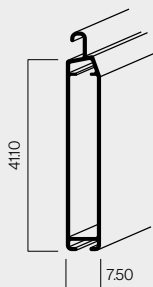
		Winblock	
Slats	Spring and axle	200	230
Mini-39	Mixed spring lock (axle 60)	3,840	5,500
Mini-40 special	Mixed spring lined G (axle 42)	-	-
	Mixed spring lined G (axle 60)	2,660	3,850
Mini-47	Mixed spring lined G (axle 60)	3,000	4,500

Sizes are in mm

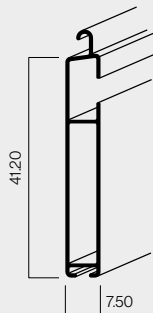
End slats



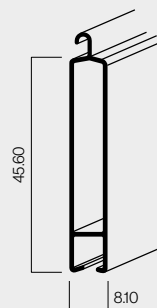
End slat A
Interior
026006



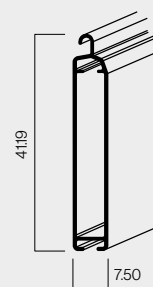
End slat B
Blind
026087



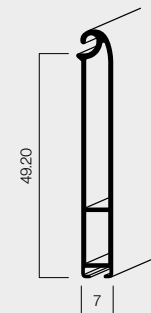
End slat C
Exterior
026026



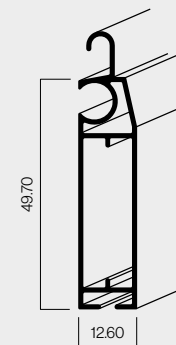
End slat Intermediate
026124



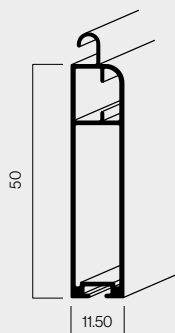
End slat N
026066



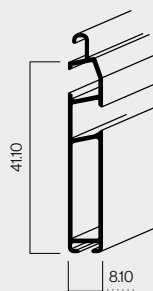
End slat E
033021



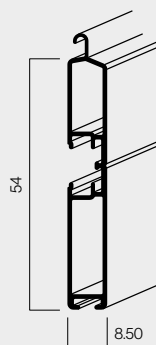
End slat G
Interior
026063



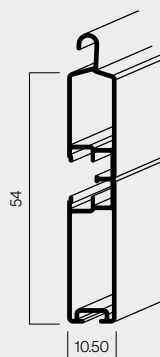
End slat H
033406



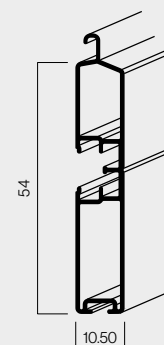
End slat D
2 sides
026070



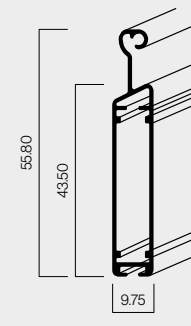
End slat AC
026075



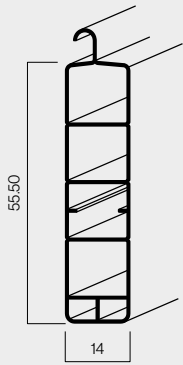
End slat SP
026042



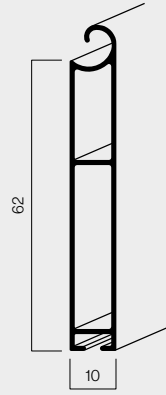
Leveler TBT
026050



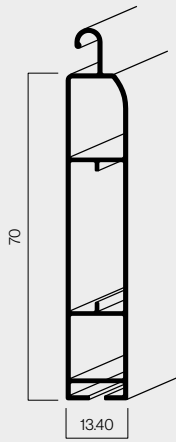
End slat PS-25 R
505057



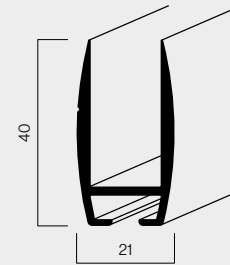
End slat
Reinforced PVC
014032



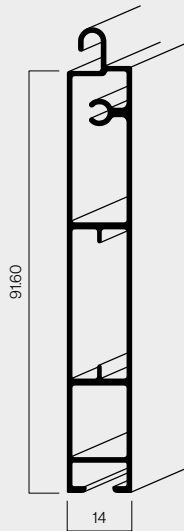
End slat F
033342



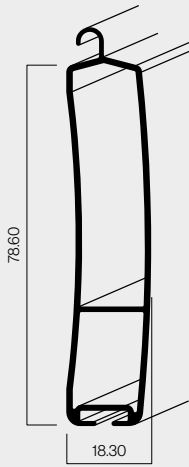
End slat J
505005



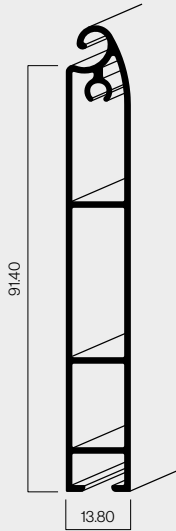
Leveler profile
Compatible with end slats I, K and R
505038



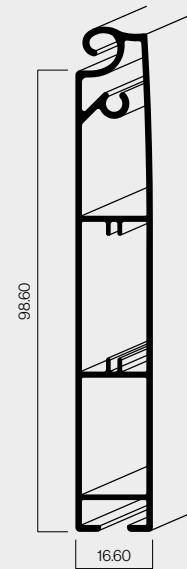
End slat I
505010



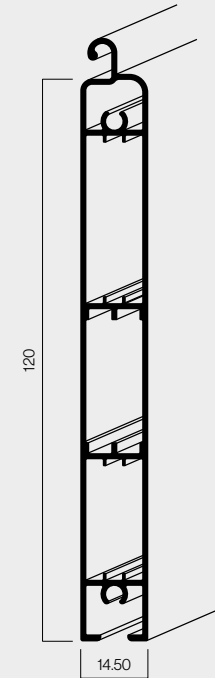
End slat N
Curved
505006



End slat K
033281

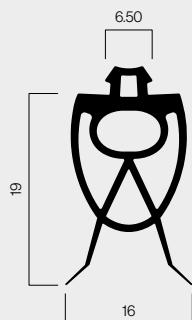


End slat M
503171

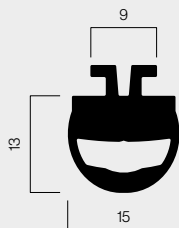


End slat R
026067

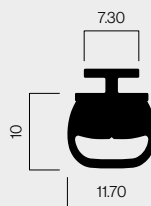
Rubber band



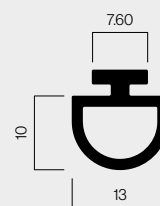
Sensitive band
502015



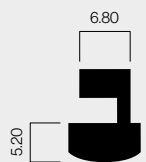
Rubber band 150 • 180
507148



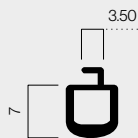
Rubber band 150 • 150
507149



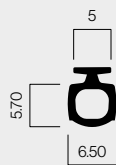
Rubber band 80 • 130
505062



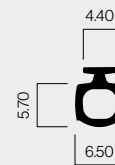
Rubber band Alugix-55
026049



Rubber band Alugix-39.5
Rubber band Alugix-45
Rubber band Alugan-45
026004



Rubber band 1050
026058



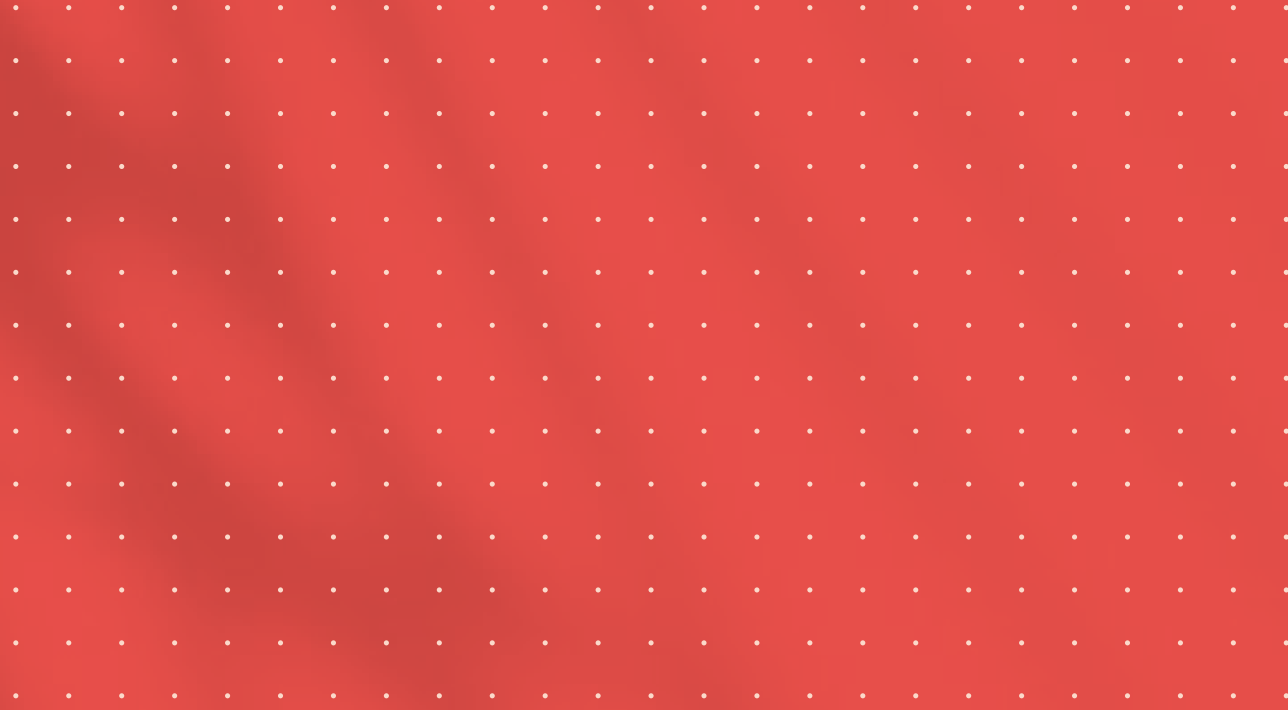
Rubber band 1044
026023

Compatibility with End slat/Rubber band and slats

Compatibility with End slat, Rubber band and slats

End slates	Foam filled roll formed aluminium slats										Extruded aluminium slats										PVC				Rubber band models																					
	Alugix-39,5	E-45	Alugix-42	Alugix-45	Alugan-45	Alugix-50	Alugix-55	Alugix-546	Alugix-56	PS-78	PS-25R	PS-40	PS-40 self-locking	PS-45 self-locking	PM-45	PS-45 flat	PS-48 self-locking	PM-49	PS-53	PS-55 S	PS-64	PS-64M	PS-65 self-locking	PS-79	PS-80 self-locking	PS-85R	PS-100R	Mini-39	Mini-40 Special	Mini-47	R-50	P-50	P-55	P60	Sensitive band	G.150/180	G.150/150	G.80/130	G. Alugix-55	G. Alugix/Alugan	G. 1050	G. 1044				
A - Interior	•	•	•	•	•	•						•																	•	•	•														•	
B - Blind	•	•	•	•	•	•					•	•				•	•													•	•	•													•	
N	•	•	•	•	•	•																								•	•	•													•	
C - Exterior	•	•	•	•	•	•					•																			•	•	•													•	
Intermediate	•	•	•	•	•	•																								•	•	•												•		
E													•	•																														•		
G - Interior							•												•		•	•																						•		
H								•	•											•										•					•	•								•		
D - 2 sides	•	•	•	•	•	•					•																			•	•	•													•	
AC	•	•	•	•		•																								•	•													•		
SP							•	•	•											•																								•		
TBT				•		•																																						•		
Reinforced (PVC)																																			•	•										
F																																													•	
J							•												•		•	•																						•		
I																																													•	
N Curved																																													•	
K																																														
M																																														
R																																														
End slat PS-25 R blind											•																																			
End slat PS-25 R rubber band																•																													•	
Slat Alugix-55																																														•
Slat Alugix-39,5																																													•	
Slat Alugix-45																																													•	
Slat Alugan-45																																													•	

01



Foam filled roll formed aluminium slats

Today, energetic efficiency has become a priority at people's homes.

To this end, Profileed aluminium slats guarantee total control over solar light, and great thermal insulation thanks to their technical characteristics.

Additionally, the polyurethane foam inside makes the material robust and resistant to atmospheric phenomena.

Diversity in models aids in the appropriate selection for each window frame, thereby adjusting to the dwelling's finishes.

Blind or punched slats, along with the broad RAL colour selection, help to achieve the desired finish.

Content

- 02.1 • Alugix-39.5
- 02.2 • Alugix-42
- 02.3 • E-45
- 02.4 • Alugix-45
- 02.5 • Alugan-45
- 02.6 • Alugix-50
- 02.7 • Alugix-546
- 02.8 • Alugix-55
- 02.9 • Alugix-56
- 02.10 • PS-78

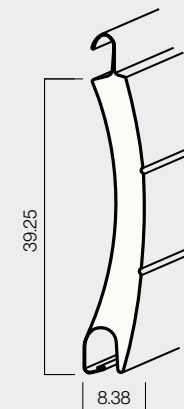
Alugix-39.5

015039 Alugix-39.5



Technical characteristics

Area of covering	39.25 mm
Number slats by meter	25.47 units
Maximum recommended width	3,050 mm
Slat weight (density 75 kg/m ³)	2.05 kg/m²
Slat weight (high density 250 kg/m ³)	3.15 kg/m²
Packaging unit standard	60 slats
Production lengths	de 5.50 a 6.50 ml
Minimum rolling diameter	42 mm



End slats compatibility

A - Interior • B - Blind • N • C - Exterior • D - 2 Sides
Intermediate • AC

Fire reaction

EN 13501-1

Without light slits - Class B-s2, d0

With light slits - Class C-s2, d0

Set of cap compatibility

Set of cap Alugix-39.5 S (code 015069)

Aluminium guide channels compatibility

UP-3.5/22 • UP-40/22 • UP-45/22 • ZF-8 • H-25-FC
HR-C-25 • H-25 • HC-25 • HD-25 • HSL • HSL-A
HSL-E • E • S • H-66 • Ref. 1229 • 16.80x28.40
17.20x28.40 • V-25 Ref. 9178 • V-25 Ref. 9182 • V-45

PVC guide channels compatibility

60x30 • 60x40 • 55x45 • 60x45 • 60x70 • 60x75.5
Central 60x45 • Central 70x30 • 60x30 R

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Mixed spring lock arrow axle 027162	Axle 42	110	115	120	130	140	145	150	155	160	165	170	175	180	185
	Axle 60	115	120	130	140	145	150	155	160	165	170	175	180	185	190
Spring Lock 1 element 036003	Axle 54	115	120	125	130	140	145	150	155	160	165	170	175	180	185
	Axle 60	120	125	130	140	145	150	155	160	165	170	175	180	185	190
Spring Lock 2 elements 036004	Axle 54	115	120	130	135	140	145	150	160	165	170	175	180	185	190
	Axle 60	120	125	130	140	145	150	155	160	165	170	175	180	185	190

Sizes are in mm.

Recommended box according to height

		Euroblock / Eurodecor					Aluminium box					Winblock		
		155	170	185	200	225	137	150	165	180	205	155	200	230
Mixed spring lock arrow axle 027162	Axle 60	1,800	2,050	2,700	3,250	4,840	1,440	1,965	2,480	2,900	4,040	1,625	3,210	4,880

Sizes are in mm.

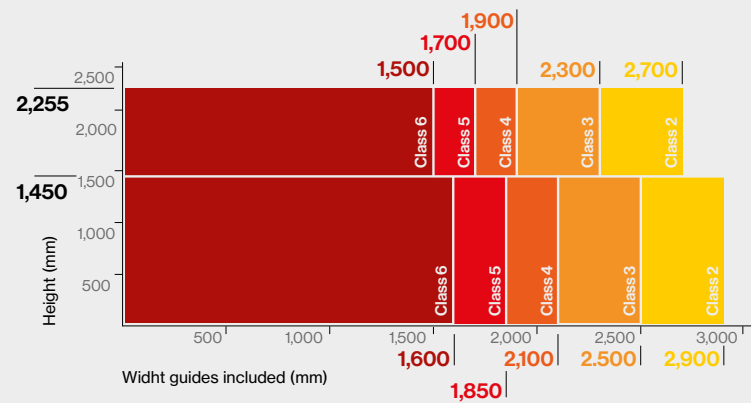
Additional thermal resistance

According to EN 13125.

ΔR Class 4 = 0.15 m² K/W

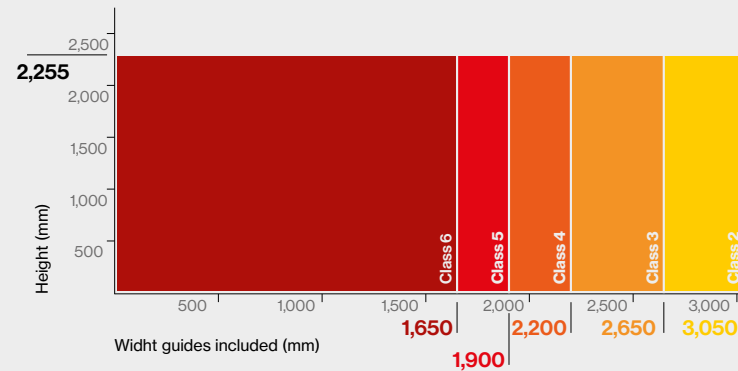
Wind resistance

EN 13659 (Wind resistance for rolling shutters).



Wind resistance high density

EN 13659 (Wind resistance for rolling shutters).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

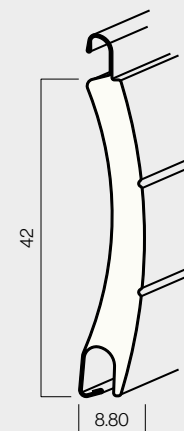
Alugix-42

015098 Alugix-42



Technical characteristics

Area of covering	42 mm
Number slats by meter	23.81 units
Maximum recommended width	3,700 mm
Slat weight (density 90 kg/m ³)	2.31 kg/m²
Slat weight (hight density 250 kg/m ³)	3.03 kg/m²
Packaging unit standard	48 slats
Production lengths	de 5.50 a 6.50 ml
Minimum rolling diameter	42 mm



End slats compatibility

A-Interior • B - Blind • N • C - Exterior • Intermediate
D - 2 Sides • AC

Fire reaction

EN 13501-1

Without light slits - Class B-s2, d0

With light slits - Class C-s2, d0

Set of cap compatibility

Set of cap Alugix-45 S (code 015072)

Aluminium guide channels compatibility

UP-3.5/22 • UP-40/22 • UP-45/22 • ZF-8 • H-25-FC
HR-C-25 • H-25 • HC-25 • HD-25 • HSL • HSL-A
HSL-E • E • S • H-66 • Ref. 1229 • 16.80x28.40
17.20x28.40 • V-25 Ref. 9178 • V-25 Ref. 9182 • V-45

PVC guide channels compatibility

60x30 • 60x40 • 55x45 • 60x45 • 60x70 • 60x75.5
Central 60x45 • Central 70x30 • 60x30 R

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Mixed spring lock arrow axle 027162	Axle 42	110	120	130	135	140	150	155	160	160	170	175	180	180	195
	Axle 60	120	130	135	140	145	150	160	160	170	175	180	185	190	195
Spring Lock 1 element 036003	Axle 54	120	120	130	135	140	150	150	160	170	170	180	180	190	190
	Axle 60	125	140	140	150	150	155	160	170	170	180	180	180	195	195
Spring Lock 2 elements 036004	Axle 54	115	125	130	140	150	150	160	160	165	170	175	180	190	190
	Axle 60	120	130	135	140	145	155	155	170	170	180	180	185	190	190

Sizes are in mm.

Recommended box according to height

		Euroblock / Eurodecor					Aluminium box					Winblock		
		155	170	185	200	225	137	150	165	180	205	155	200	230
Mixed spring lock arrow axle 027162	Axle 60	1,715	2,100	2,575	3,200	4,400	1,400	1,750	2,320	2,690	3,830	1,575	3,060	4,765

Sizes are in mm.

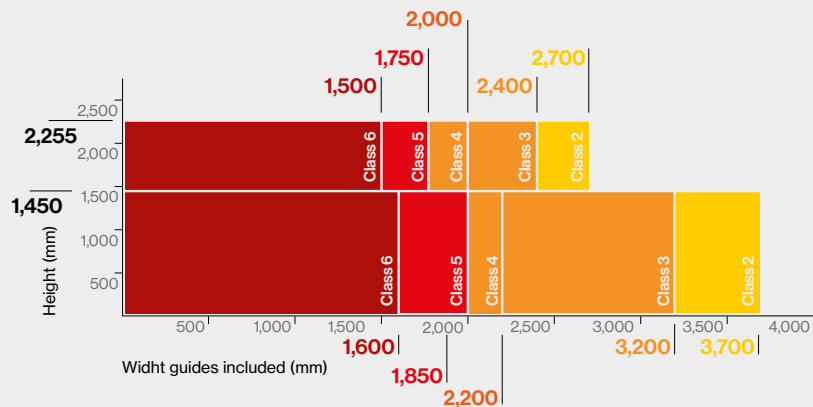
Additional thermal resistance

According to EN 13125.

ΔR Class 4 = 0.15 m² K/W

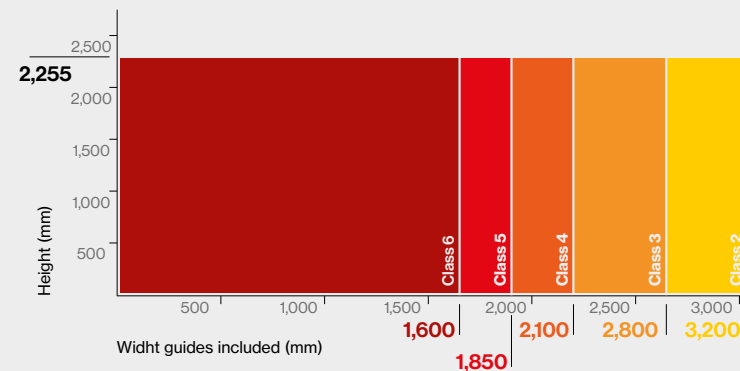
Wind resistance

EN 13659 (Wind resistance for rolling shutters).



Wind resistance high density

EN 13659 (Wind resistance for rolling shutters).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

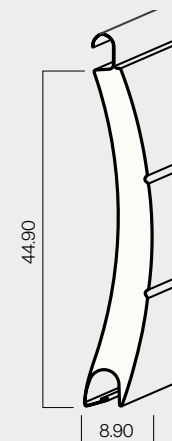
E-45

015201E-45



Technical characteristics

Area of covering	44.90 mm
Number slats by meter	22.27 units
Maximum recommended width	3,000 mm
Slat weight (density 75 kg/m ³)	2.08 kg/m²
Slat weight (high density 250 kg/m ³)	2.87 kg/m²
Packaging unit standard	60 slats
Production lengths	de 5.50 a 6.50 ml
Minimum rolling diameter	42 mm



End slats compatibility

A - Interior • B - Blind • N • C - Exterior • D - 2 Sides
Intermediate • AC

Fire reaction

EN 13501-1

Without light slits - Class B-s2, d0

With light slits - Class C-s2, d0

Set of cap compatibility

Set of cap E-45 S (code 015077)

Aluminium guide channels compatibility

UP-3.5/22 • UP-40/22 • UP-45/22 • ZF-8 • H-25-FC
HR-C-25 • H-25 • HC-25 • HD-25 • HSL • HSL-A
HSL-E • E • S • H-66 • Ref. 1229 • 16.80x28.40
17.20x28.40 • V-25 Ref. 9178 • V-25 Ref. 9182 • V-45

PVC guide channels compatibility

60x30 • 60x40 • 55x45 • 60x45 • 60x70 • 60x75.5
Central 60x45 • Central 70x30 • 60x30 R

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Mixed spring lock arrow axle 027162	Axle 42	110	120	125	135	140	145	155	160	165	170	170	180	180	190
	Axle 60	120	125	135	140	145	150	160	160	170	170	180	180	190	190
Spring Lock 1 element 036003	Axle 54	115	120	130	135	140	150	155	160	160	165	175	175	185	185
	Axle 60	120	130	135	140	145	150	155	165	165	175	175	180	190	190
Spring Lock 2 elements 036004	Axle 54	115	120	130	135	145	145	155	160	165	165	175	175	185	190
	Axle 60	120	130	130	140	145	150	155	165	165	175	175	185	190	190

Sizes are in mm.

Recommended box according to height

		Euroblock / Eurodecor					Aluminium box					Winblock		
		155	170	185	200	225	137	150	165	180	205	155	200	230
Mixed spring lock arrow axle 027162	Axle 42	1,830	2,555	3,055	3,620	4,900	-	-	-	-	-	-	-	-
	Axle 60	1,700	2,120	2,900	3,400	4,540	1,400	2,020	2,595	3,040	4,550	1,560	3,500	5,050

Sizes are in mm.

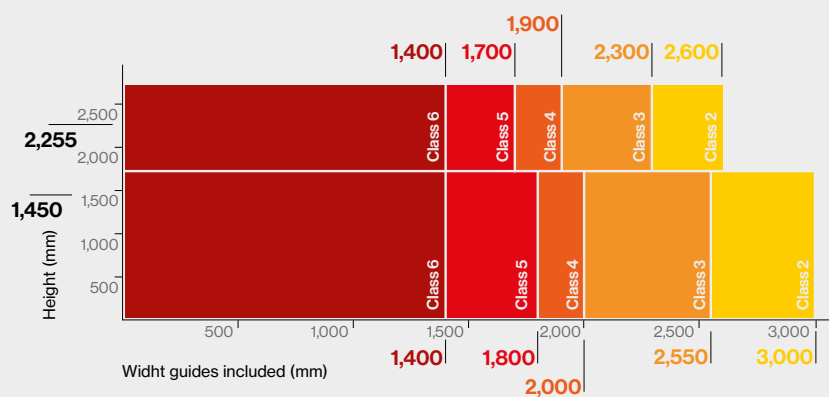
Additional thermal resistance

According to EN 13125.

ΔR Class 4 = 0.15 m² K/W

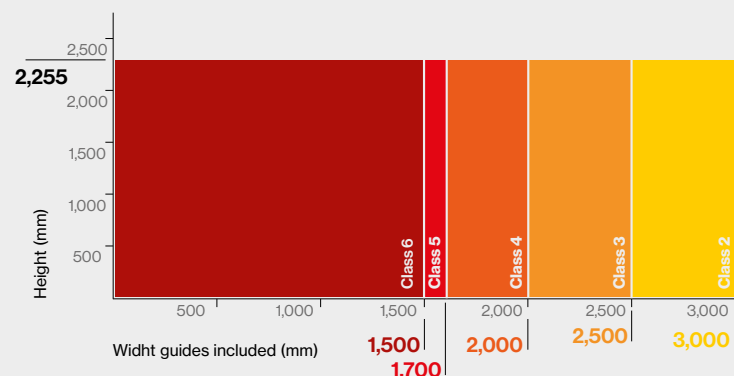
Wind resistance

EN 13659 (Wind resistance for rolling shutters).



Wind resistance high density

EN 13659 (Wind resistance for rolling shutters).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

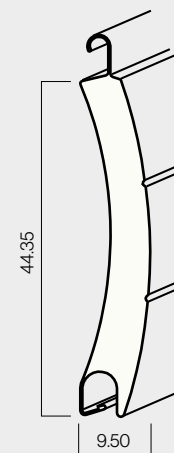
Alugix-45

015150 Alugix-45



Technical characteristics

Area of covering	44.35 mm
Number slats by meter	22.54 units
Maximum recommended width	3,800 mm
Slat weight (density 75 kg/m ³)	2.52 kg/m²
Slat weight (hight density 250 kg/m ³)	3.40 kg/m²
Packaging unit standard	48 slats
Production lengths	de 5.50 a 6.50 ml
Minimum rolling diameter	42 mm



End slats compatibility

A - Interior • B - Blind • N • C - Exterior • D - 2 Sides
Intermediate • TBT • AC

Fire reaction

EN 13501-1

Without light slits - Class B-s2, d0

With light slits - Class C-s2, d0

Set of cap compatibility

Set of cap Alugix-45 S (code 015072)

Aluminium guide channels compatibility

UP-3.5/22 • UP-40/22 • UP-45/22 • ZF-8 • H-25-FC
HR-C-25 • H-25 • HC-25 • HD-25 • HSL • HSL-A
HSL-E • E • S • H-66 • Ref. 1229 • 16.80x28.40
17.20x28.40 • V-25 Ref. 9178 • V-25 Ref. 9182 • V-45

PVC guide channels compatibility

60x30 • 60x40 • 55x45 • 60x45 • 60x70 • 60x75.5
Central 60x45 • Central 70x30 • 60x30 R

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Mixed spring lock arrow axle 027162	Axle 42	120	130	140	150	160	165	170	175	180	185	190	195	205	210
	Axle 60	120	130	140	150	160	165	170	175	180	185	190	200	205	210
Spring Lock 1 element 036003	Axle 54	120	130	135	145	150	160	165	170	175	185	195	200	205	210
	Axle 60	130	135	140	150	160	165	170	175	180	190	195	200	205	210
Spring Lock 2 elements 036004	Axle 54	120	130	140	150	155	160	170	180	185	190	195	200	205	210
	Axle 60	125	135	140	150	155	160	170	180	185	190	195	200	205	210

Sizes are in mm.

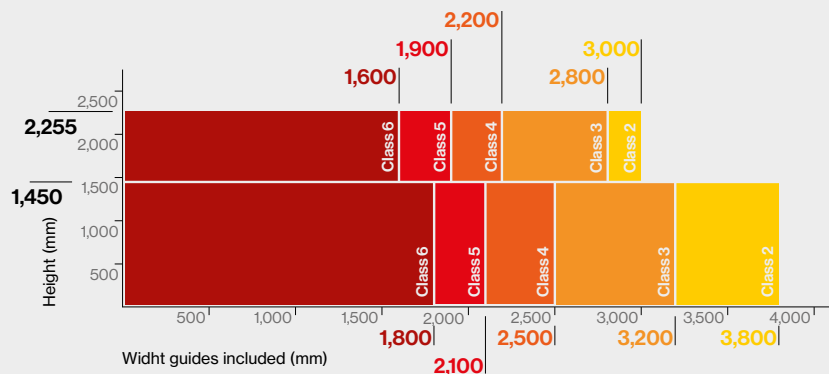
Recommended box according to height

		Euroblock / Eurodecor					Aluminium box					Winblock		
		155	170	185	200	225	137	150	165	180	205	155	200	230
Mixed spring lock arrow axle 027162	Axle 60	1,540	1,980	2,425	2,935	4,110	1,370	1,740	2,200	2,670	3,760	1,370	2,890	4,270

Sizes are in mm.

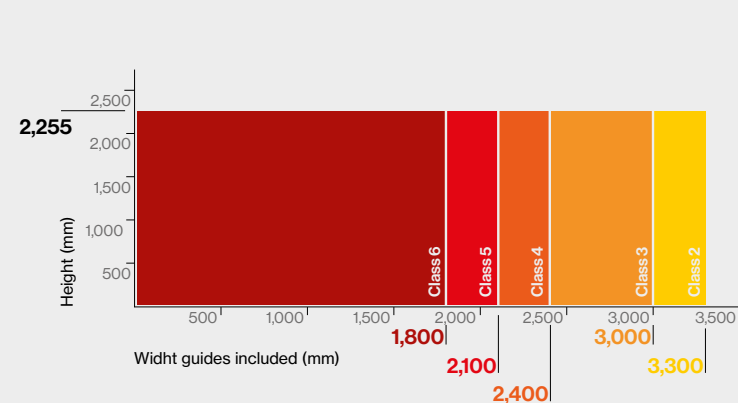
Wind resistance

EN 13659 (Wind resistance for rolling shutters).



Wind resistance high density

EN 13659 (Wind resistance for rolling shutters).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

Thermal transmittance

Ref. Product Alugix-45 - Bicolour

Ref. Sample CPM 11/260-35318

Side Aluminium

Transmittance %25

Additional thermal resistance NF

Classification Class 4 14.000 Cycles (>14.847 Cycles)

Additional thermal resistance

According to EN 13125.

ΔR Class 4 = 0.15 m² K/W

*Except perforated formats and micro-perforated:

ΔR Class 4 = 0.25 m² K/W

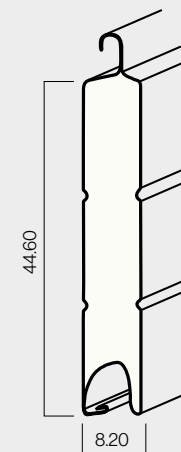
Alugan-45

015065 Alugan-45



Technical characteristics

Area of covering	44.60 mm
Number slats by meter	22.42 units
Maximum recommended width	3,800 mm
Slat weight (density 75 kg/m ³)	2.96 kg/m²
Slat weight (hight density 250 kg/m ³)	4.30 kg/m²
Packaging unit standard	60 slats
Production lengths	de 5.50 a 6.50 ml
Minimum rolling diameter	42 mm



End slats compatibility

A - Interior • B - Blind • N • C - Exterior • D - 2 Sides
Intermediate

Fire reaction

EN 13501-1

Without light slits - Class B-s2, d0

With light slits - Class C-s2, d0

Set of cap compatibility

Set of cap Alugan-45 (code 015003)

Aluminium guide channels compatibility

UP-3.5/22 • UP-40/22 • UP-45/22 • ZF-8 • H-25-FC
HR-C-25 • H-25 • HC-25 • HD-25 • HSL • HSL-A
HSL-E • E • S • H-66 • Ref. 1229 • 16.80x28.40
17.20x28.40 • V-25 Ref. 9178 • V-25 Ref. 9182 • V-45

PVC guide channels compatibility

60x30 • 60x40 • 55x45 • 60x45 • 60x70 • 60x75.5
Central 60x45 • Central 70x30 • 60x30 R

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Mixed spring lock arrow axle 027162	Axle 42	130	150	160	170	185	190	195	205	210	220	225	230	235	245
	Axle 60	140	160	165	180	190	195	200	205	215	220	230	235	240	250
Spring Lock 1 element 036003	Axle 54	140	150	160	170	180	185	190	200	210	220	230	235	240	245
	Axle 60	145	155	165	175	185	190	200	210	215	220	230	235	240	245
Spring Lock 2 elements 036004	Axle 54	140	150	160	170	180	185	190	200	210	215	220	225	230	240
	Axle 60	150	155	165	170	185	190	200	205	210	215	220	230	240	245

Sizes are in mm.

Recommended box according to height

		Euroblock / Eurodecor					Aluminium box					Winblock		
		155	170	185	200	225	137	150	165	180	205	155	200	230
Mixed spring lock arrow axle 027162	Axle 60	1,120	1,350	1,640	2,150	2,700	1,020	1,160	1,500	1,950	2,700	970	1,970	3,010

Sizes are in mm.

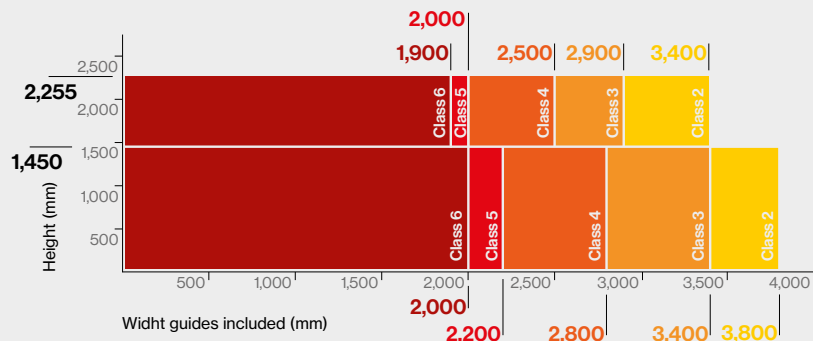
Additional thermal resistance

According to EN 13125.

ΔR Class 4 = 0.16 m² K/W

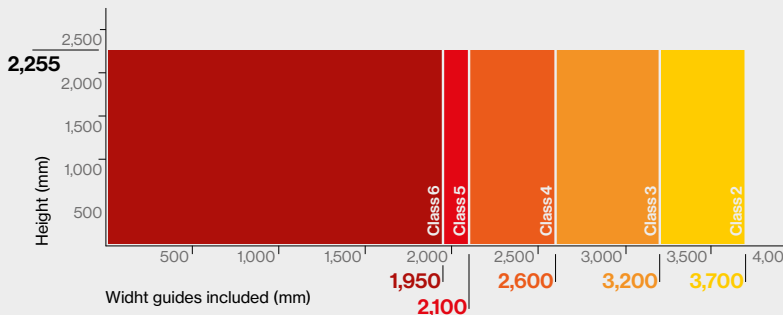
Wind resistance

EN 13659 (Wind resistance for rolling shutters).



Wind resistance height density

EN 13659 (Wind resistance for rolling shutters).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

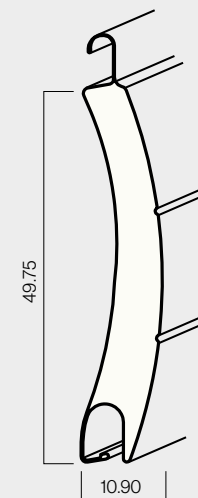
Alugix-50

015120 Alugix-50



Technical characteristics

Area of covering	49.75 mm
Number slats by meter	20.10 units
Maximum recommended width	4,000 mm
Slat weight (density 75 kg/m ³)	2.64 kg/m²
Slat weight (hight density 250 kg/m ³)	3.71 kg/m²
Packaging unit standard	48 slats
Production lengths	de 5.50 a 6.50 ml
Minimum rolling diameter	42 mm



End slats compatibility

A - Interior • B - Blind • N • C - Exterior • D - 2 Sides
Intermediate • TBT • AC

Fire reaction

EN 13501-1

Without light slits - Class B-s2, d0

With light slits - Class C-s2, d0

Set of cap compatibility

Set of cap Alugix-50 S (code 015073)

Set of cap Alugix-50 A.D. with screw (code 015081)

Aluminium guide channels compatibility

UP-3.5/22 • UP-40/22 • UP-40/25 • UP-45/22
ZF-8 • H-25-FC HR-C-25 • H-25 • HC-25 • HD-25
HSL • HSL-A • HSL-E • E • S • H-66 • 16.80x28.40
17.20x28.40 • V-45

PVC guide channels compatibility

60x70

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Mixed spring lock arrow axle 027162	Axle 42	130	135	145	150	160	165	175	180	190	195	200	205	210	220
	Axle 60	135	145	150	160	165	175	180	190	195	200	205	210	220	225
Spring Lock 1 element 036003	Axle 54	130	135	140	150	160	165	170	175	185	190	200	205	210	215
	Axle 60	135	140	150	160	165	170	175	180	190	195	200	205	210	215
Spring Lock 2 elements 036004	Axle 54	130	140	145	155	160	170	175	180	185	190	200	205	210	215
	Axle 60	135	140	150	155	165	170	175	180	190	195	200	205	210	215

Sizes are in mm.

Recommended box according to height

		Euroblock / Eurodecor					Aluminium box					Winblock		
		155	170	185	200	225	137	150	165	180	205	155	200	230
Mixed spring lock arrow axle 027162	Axle 60	1,300	1,700	2,150	2,500	3,360	1,040	1,360	1,800	2,230	2,900	1,150	2,340	3,460

Sizes are in mm.

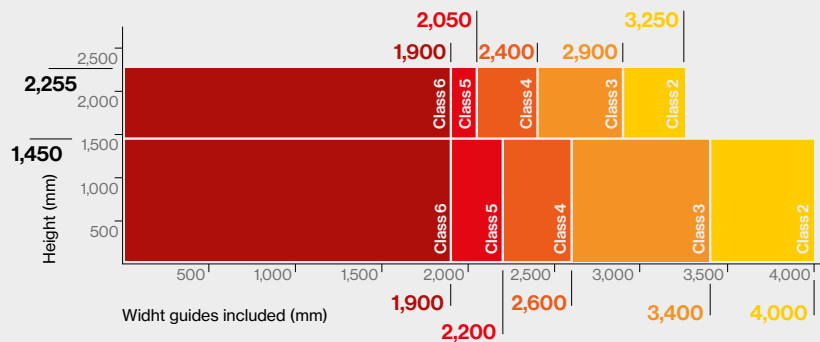
Additional thermal resistance

According to EN 13125.

ΔR Class 4 = 0.16 m² K/W

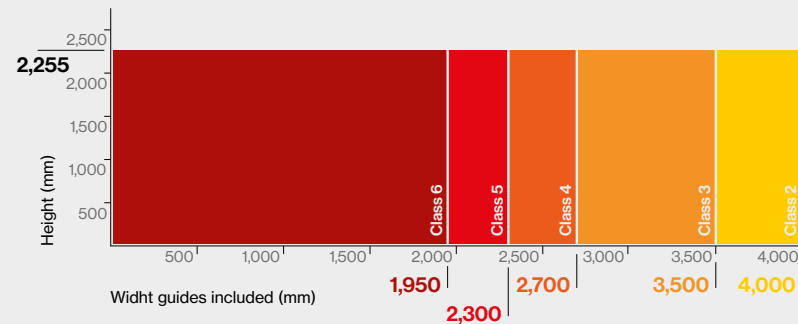
Wind resistance

EN 13659 (Wind resistance for rolling shutters).



Wind resistance high density

EN 13659 (Wind resistance for rolling shutters).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

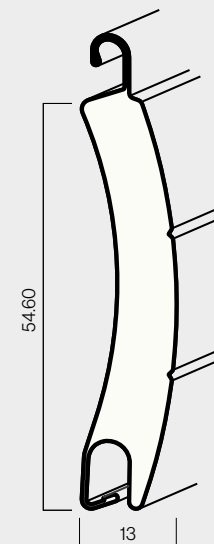
Alugix-546

015015 Alugix-546



Technical characteristics

Area of covering	54.60 mm
Number slats by meter	18.32 units
Maximum recommended width	4,800 mm
Slat weight (density 75 kg/m ³)	3.03 kg/m²
Slat weight (high density 250 kg/m ³)	4.35 kg/m²
Packaging unit standard	32 slats
Production lengths	de 5.50 a 6.50 ml
Minimum rolling diameter	60 mm



End slats compatibility

H • SP

Aluminium guide channels compatibility

UP-40/25 • UP-50/25 • ZF-14 • 17.20x28.40
19.15x28.40 • V-55 • UPS-6.5 • UPS-7.5 • UPS-9.5

Fire reaction

EN 13501-1

Without light slits - Class B-s2, d0

With light slits - Class C-s2, d0

Set of cap compatibility

Set of cap Alugix-56 S (code 015075)

Set of cap Alugix-56 A.D. with screw (code 015019)

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Mixed spring lock treated steel G 027461	Axle 60	165	170	185	190	200	205	210	220	225	230	240	245	250	260
	Axle 70	165	170	185	190	200	205	210	220	225	230	240	245	250	260
Spring Lock 1 element 036003	Axle 54	155	165	175	180	190	200	205	215	220	225	235	240	245	255
	Axle 60	160	170	180	185	190	200	205	215	220	225	235	240	245	255
Spring Lock 2 elements 036004	Axle 54	160	170	180	190	195	200	205	215	220	230	235	240	245	260
	Axle 60	160	170	180	185	190	200	205	215	220	230	235	240	245	260
Spring Lock 2/3 elements 507170 • 507173	Axle 70	170	170	190	190	190	210	210	210	230	230	230	250	250	250
	Axle 80	170	170	190	190	190	210	210	210	230	230	230	250	250	250

Sizes are in mm.

Recommended box according to height

		Aluminium box				Winblock	Alex
		180	205	250	300	230	250
Mixed spring lock treated steel G 027461	Axle 60	**1,300	**1,800	-	-	2,630	3,340
	Axle 70	**1,300	**1,800	3,530	5,525	2,800	3,500
Spring Lock 2/3 elements 507170 • 507173	Axle 100*	-	-	3,470	5,035	-	3,100

Sizes are in mm.

* Equivalent to axles of 70 and 80 with ZF spring locks 2 and 3 elements / Axle 100 with metallic spring.

** No guides entries available.

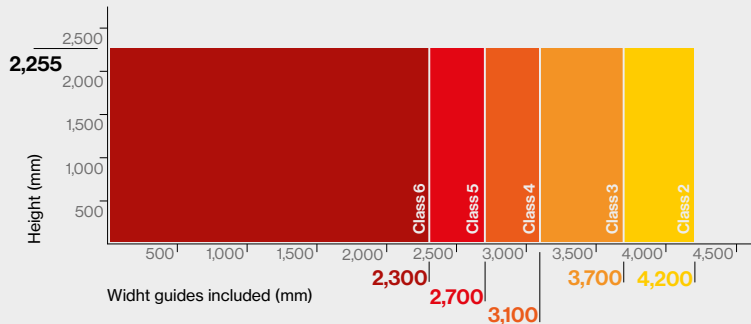
Additional thermal resistance

According to EN 13125.

ΔR Class 4 = 0.16 m² K/W

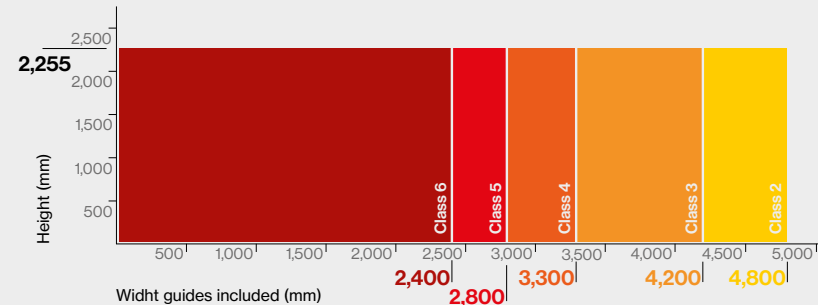
Wind resistance

EN 13659 (Wind resistance for rolling shutters).



Wind resistance high density

EN 13659 (Wind resistance for rolling shutters).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

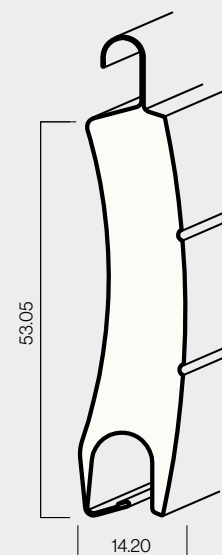
Alugix-55

015090 Alugix-55



Technical characteristics

Area of covering	53,05 mm
Number slats by meter	18,85 units
Maximum recommended width	5.500 mm
Slat weight (density 75 kg/m ³)	3,67 kg/m²
Slat weight (hight density 250 kg/m ³)	5,32 kg/m²
Packaging unit standard	16 slats
Production lengths	de 5,50 a 6,50 ml
Minimum rolling diameter	60 mm



End slats compatibility

G - Interior • J • SP

Aluminium guide channels compatibility

UP-40/25 • UP-50/25 • ZF-14 • 19.15x28.4
V-55 • UPS-6.5 • UPS-7.5 • UPS-9.5

Fire reaction

EN 13501-1

Without light slits - Class B-s2, d0

With light slits - Class C-s2, d0

Set of cap compatibility

Set of cap Alugix-55 (code 015004)

Set of cap Alugix-55 A.D. with screw (code 015011)

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Mixed spring lock treated steel G 027461	Axle 60	160	170	190	200	205	210	230	235	240	250	255	260	270	280
	Axle 70	165	170	190	200	205	220	230	235	240	255	260	265	270	280
Spring Lock 1 element 036003	Axle 54	150	165	180	190	205	210	220	230	240	250	255	260	270	280
	Axle 60	160	170	180	195	205	215	220	230	240	250	260	265	270	280
Spring Lock 2 elements 036004	Axle 54	160	170	180	190	205	215	220	230	240	250	260	265	270	280
	Axle 60	165	175	180	190	205	215	220	230	240	250	260	265	270	280
Spring Lock 2/3 elements 507170 • 507173	Axle 70	180	185	190	210	210	215	235	235	235	255	255	275	280	280
	Axle 80	180	185	190	210	210	215	235	235	235	255	255	275	280	280

Sizes are in mm.

Recommended box according to heightVV

		Aluminium box			Winblock	Alex
		250	300	360	230	250
Mixed spring lock treated steel G 027461	Axle 60	-	-	-	2,400	2,770
	Axle 70	2,500	4,100	-	-	2,500
Spring Lock 2/3 elements 507170 • 507173	Axle 100*	2,590	3,965	6,360	-	2,375
	Axle 130*	-	3,860	6,210	-	-

Sizes are in mm.

*Equivalent to axles of 70 and 80 with ZF spring locks 2 and 3 elements / Axle 100 and 130 with metallic spring.

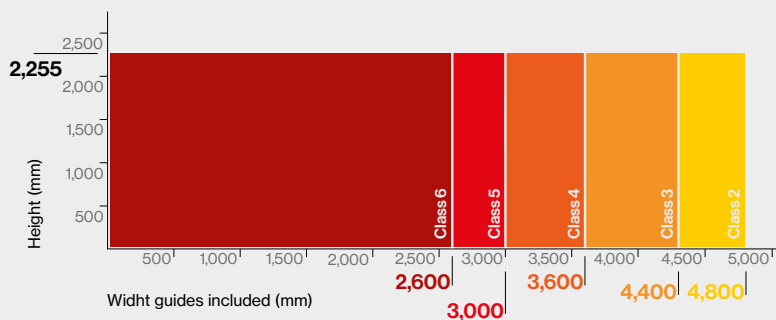
Additional thermal resistance

According to EN 13125.

ΔR Class 4 = 0.17 m² K/W

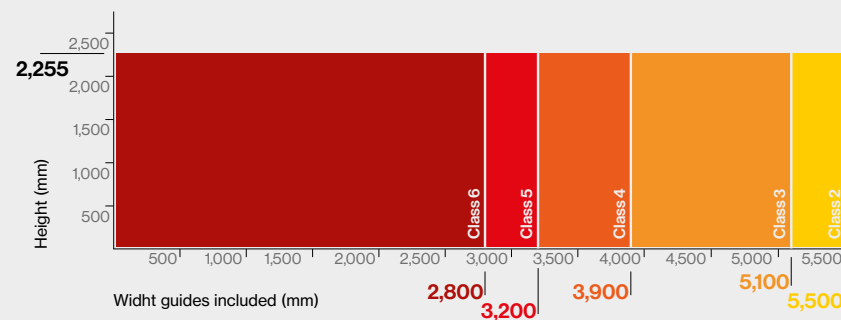
Wind resistance

EN 13659 (Wind resistance for rolling shutters).



Wind resistance high density

EN 13659 (Wind resistance for rolling shutters).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

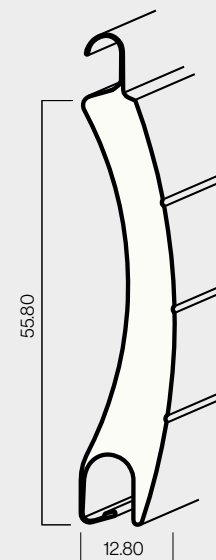
Alugix-56

015170 Alugix-56



Technical characteristics

Area of covering	55.80 mm
Number slats by meter	17.92 units
Maximum recommended width	4,600 mm
Slat weight (density 75 kg/m ³)	2.64 kg/m²
Slat weight (hight density 250 kg/m ³)	3.90 kg/m²
Packaging unit standard	32 slats
Production lengths	de 5.50 a 6.50 ml
Minimum rolling diameter	60 mm



End slats compatibility

H • SP

Fire reaction

EN 13501-1

Without light slits - Class B-s2, d0

With light slits - Class C-s2, d0

Set of cap compatibility

Set of cap Alugix-56 S (code 015075)

Set of cap Alugix-56 A.D. with screw (code 015019)

Aluminium guide channels compatibility

UP-40/25 • UP-50/25 • ZF-14 • 17.20x28.40

19.15x28.40 • V-55 • UPS-6.5 • UPS-7.5 • UPS-9.5

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Mixed spring lock treated steel G 027461	Axle 60	140	150	160	170	180	185	190	200	210	220	225	230	235	245
	Axle 70	150	160	170	180	185	190	200	205	210	220	230	235	240	250
Spring Lock 1 element 036003	Axle 54	140	150	160	170	180	185	190	200	205	210	220	230	235	240
	Axle 60	140	150	160	170	180	185	190	200	205	210	220	230	235	240
Spring Lock 2 elements 036004	Axle 54	140	150	160	165	170	180	190	200	205	215	220	225	235	240
	Axle 60	145	160	165	170	180	190	200	205	210	215	225	230	240	250
Spring Lock 2/3 elements 507170 • 507173	Axle 70	175	180	200	205	205	220	225	230	235	240	245	250	250	250
	Axle 80	175	180	200	205	205	220	225	230	235	240	245	250	250	250

Sizes are in mm.

Recommended box according to height

		Aluminium box		Winblock	Alex
		250	300	230	250
Mixed spring lock treated steel G 027461	Axle 60	-	-	3,100	3,650
	Axle 70	3,850	5,695	2,740	3,750
Spring Lock 2/3 elements 507170 • 507173	Axle 100*	2,900	5,650	-	3,210

Sizes are in mm.

*Equivalent to axles of 70 and 80 with ZF spring locks 2 and 3 elements / Axle 100 with metallic spring.

** No guides entries available.

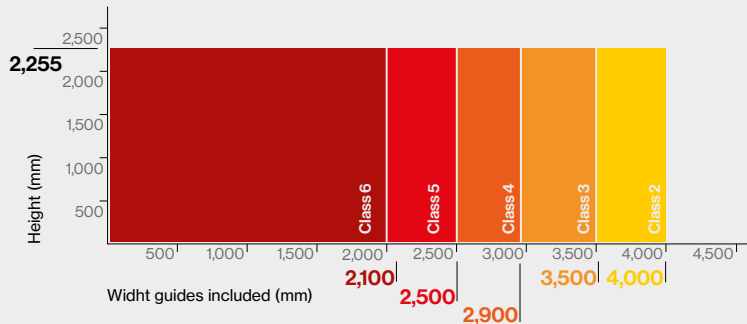
Additional thermal resistance

According to EN 13125.

ΔR Class 4 = 0.16 m² K/W

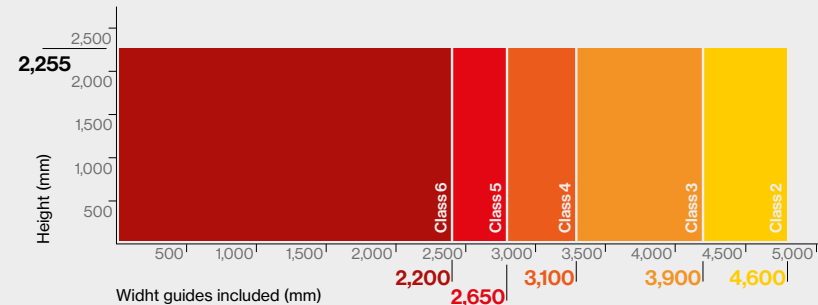
Wind resistance

EN 13659 (Wind resistance for rolling shutters).



Wind resistance high density

EN 13659 (Wind resistance for rolling shutters).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

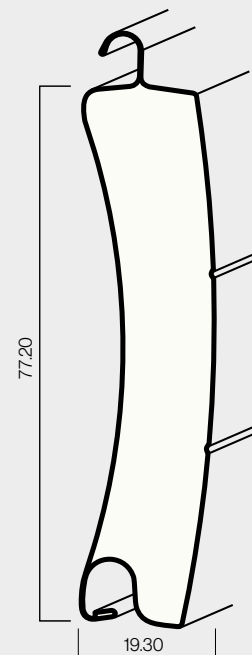
PS-78

505001PS-78



Technical characteristics

Area of covering	77.20 mm
Number slats by meter	12.95 units
Maximum recommended width (EN 13659)	5,500 mm
Maximum recommended width (EN 13241)	3,400 mm
Slat weight (density 75 kg/m ³)	5.08 kg/m²
Packaging unit standard	15 slats
Production lengths	de 5.50 a 7 ml
Minimum rolling diameter	70 mm



End slats compatibility

I • N Curved

Fire reaction

EN 13501-1

Without light slits - Class B-s2, d0

Set of cap compatibility

Set of cap PS-78 (505064)

Aluminium guide channels compatibility

GE-34/70 • GE-36/60 • GE-36/80 • GE-36/100
GE-38/100 • GE-76/100 GE-41/150 • UPSB-36/100

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Small steel spring without protection 507010	Axle 70	200	215	220	230	240	250	260	270	275	280	290	300	310	320
	Axle 100	200	220	230	240	260	265	270	280	290	300	305	310	320	330
Spring Lock 2/3 elements 507170 • 507173	Axle 100*	190	220	225	240	250	260	260	285	290	295	295	315	320	325
	Axle 130*	215	230	240	245	250	270	275	280	295	305	310	310	320	340
Arrow spring lock for pulley 507441	220	300	300	300	305	325	325	325	330	350	355	355	360	360	385
	240	310	325	325	325	340	350	350	350	350	375	380	380	380	380

Sizes are in mm.

Recommended box according to height

		Aluminium box			
		250	300	360	400
Small steel spring without protection 507010	Axle 70	1,825	3,035	-	6,185
	Axle 100*	2,000	3,100	4,885	5,500
Spring Lock 2/3 elements 507170 • 507173	Axle 130*	-	-	4,420	-
	220	-	-	3,070	3,900

Sizes are in mm.

*Equivalent to axles of 70 and 80 with ZF spring locks 2 and 3 elements.

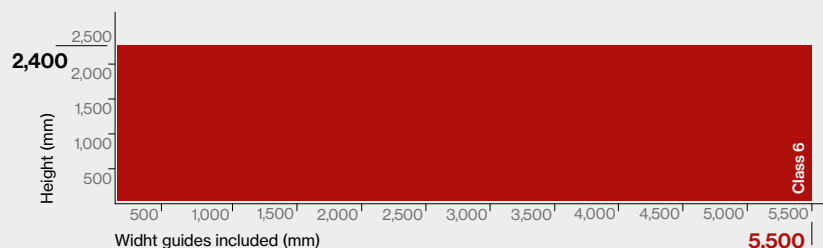
Additional thermal resistance

According to EN 13125.

ΔR Class 4 = 0.18 m² K/W

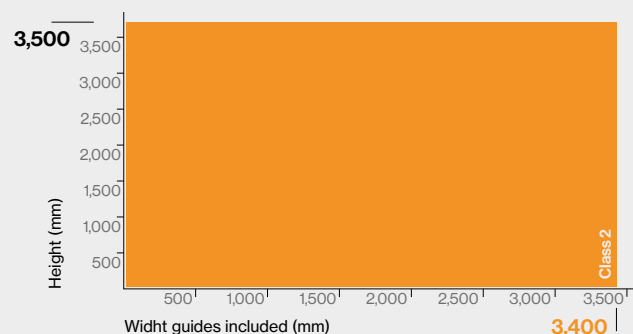
Wind resistance

EN 13659 (Wind resistance for rolling shutters).



Wind resistance

EN 13241 (Wind resistance rolling doors).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

EN 13241

Minimum required (CE)

Class 1: ≥ 415 Pa ≈ 94 km/h

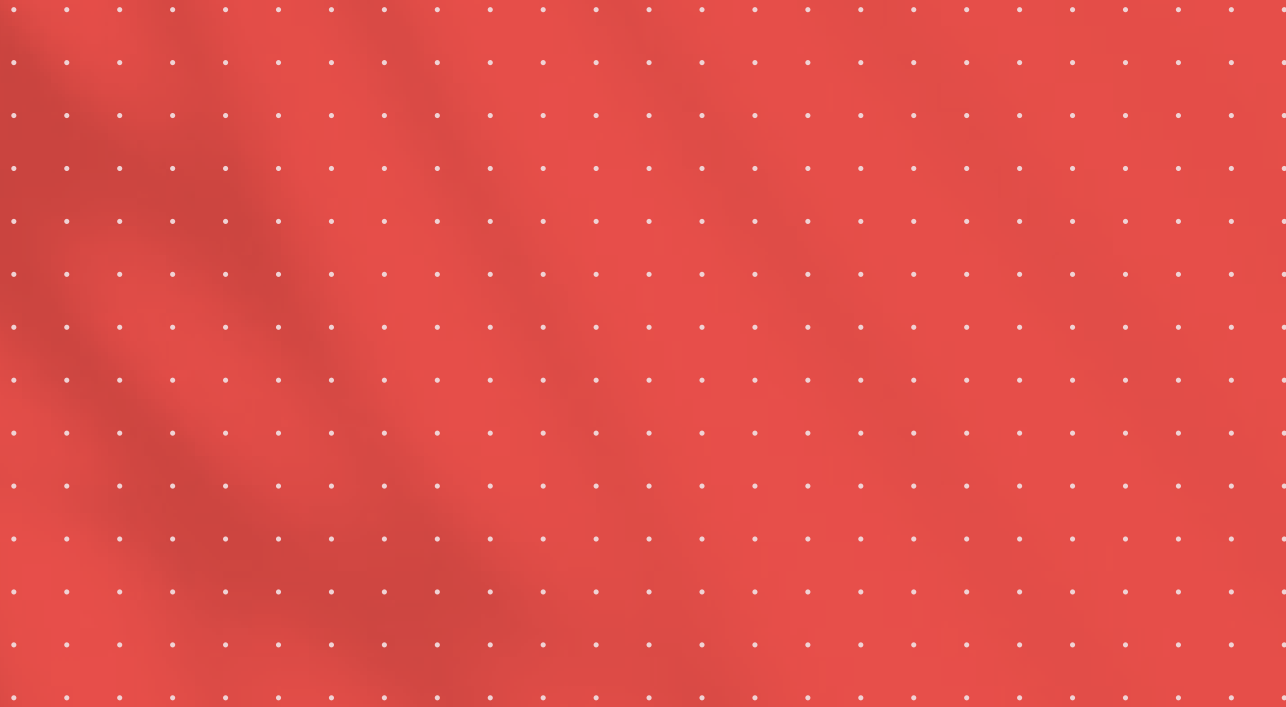
Class 2: ≥ 620 Pa ≈ 115 km/h

Class 3: ≥ 965 Pa ≈ 143 km/h

Class 4: ≥ 1.375 Pa ≈ 171 km/h

Class 5: c.d. x 1.25 ≈ 171 km/h

02



Extruded aluminium slats

Saxun offers a broad catalogue of rolling doors and blinds that are an ideal solution, both for residential use in single family dwellings or chalets and for garages and industrial warehouses.

In order to guarantee safety and comfort, all of our systems have modern automation systems that bring innovation and design together, in addition to easy installation.

A wide variety of models with different sizes and services have a high level of resistance, safety and aesthetics. Our slats may be perforated, microperforated, etc., and may all be combined together.

All rolling doors offered by Saxun are available with a wide range or finishes in the entire RAL colour range, exclusively anodised and lacquered with wood.

Content

03.1 • PS-25 R	03.9 • PS-55 S
03.2 • PS-40	03.10 • PS-64
03.3 • PS-40 Self-Locking	03.11 • PS-64 M
03.4 • PS-45 Self-Locking	03.12 • PS-65 Self-Locking
03.5 • PM-45	03.13 • PS-79
03.6 • PS-48 Self-Locking	03.14 • PS-48 Self-Locking
03.7 • PM-49	03.15 • PS-85 Flat
03.8 • PS-53	03.16 • PS-100 Flat

PS-25 R

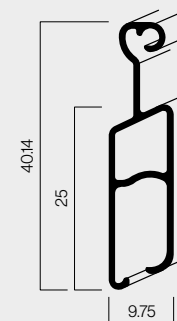
505056 PS-25 R Blind

505083 PS-25 R Mechanized



Technical characteristics

Area of covering closed	25 mm
Area of covering open	32 mm
Area of covering open	12.90 %
Number of slats per metre of height (average)	40 units
Maximum recommended width	3,000 mm
Slat weight	10.40 kg/m²
Packaging unit standard	5 slats
Production lengths	6.000 ml
Minimum rolling diameter	50 mm



End slats compatibility

PS-25 R Blind

Aluminium guide channels compatibility

UP-3.5/22 • UP-40/22 • UP-45/22 • ZF-8 • H-25-FC
HR-C-25 • H-25 • HC-25 • HD-25 • HSL • HSL-A
HSL-E • E • S • H-66 • Ref. 1229 • 17.20x28.40 • V-45

Set of cap compatibility

Set of cap PS-25 R with screw (code 505059)

PVC guide channels compatibility

60x30 • 60x40 • 55x45 • 60x45 • 60x70 • 60x75.5
Central 60x45 • Central 70x30 • 60x30 R

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Metallic spring arrow axle PS-45 033007	Axle 60	160	170	190	190	210	215	225	230	230	250	250	250	275	275
	Axle 70	170	190	190	210	210	230	235	235	255	255	255	280	280	280
Self-locking spring 2/3 elements 036019 • 036020	Axle 60	180	190	200	200	225	225	245	245	245	265	270	270	285	290

Sizes are in mm.

Recommended box according to height

		Euroblock / Eurodecor					Aluminium box						Winblock		Alex
		155	170	185	200	225	137	150	165	180	205	230	200	230	250
Metallic spring arrow axle PS-45 033007	Axle 60	830	1,010	1,385	1,600	2,100	670	960	1,100	1,370	1,840	2,445	1,560	2,310	2,830
	Axle 70	600	870	1,195	1,400	1,855	470	780	980	1,190	1,630	2,130	1,410	2,100	2,630
Self-locking spring 2/3 elements 036019 • 036020	Axle 60	-	-	-	-	1,755	-	-	-	-	-	1,930	-	1,900	2,335

Sizes are in mm.

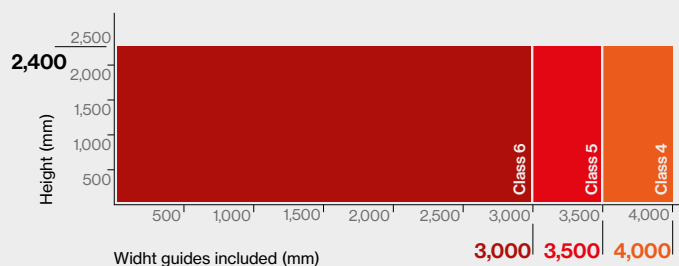
Additional thermal resistance

According to EN 13125.

ΔR Class 4 = 0.15 m² K/W

Wind resistance

EN 13659 (Wind resistance for rolling shutters).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

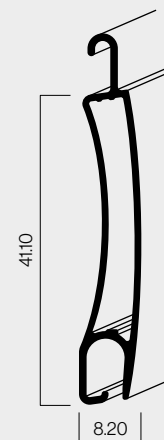
PS-40

015012 PS-40 Vented
015014 PS-40 Blind



Technical characteristics

Area of covering	41.10 mm
Number slats by meter	24.33 units
Maximum recommended width	3,000 mm
Slat weight	6.66 kg/m²
Packaging unit standard	10 slats
Stock lengths	5.80 ml / 6 ml
Minimum rolling diameter	42 mm



End slats compatibility

A - Interior • B - Blind • C - Exterior • D - 2 Sides

Set of cap compatibility

Set of cap PS-40 (code 015005)

Aluminium guide channels compatibility

UP-3.5/22 • UP-40/22 • UP-45/22 • ZF-8 • H-25-FC
HR-C-25 • H-25 • HC-25 • HD-25 • HSL • HSL-A
HSL-E • E • S • H-66 • Ref. 1229 • 16.80x28.40
17.20x28.40 • V-25 Ref. 9178 • V-25 Ref. 9182 • V-45

PVC guide channels compatibility

60x30 • 60x40 • 55x45 • 60x45 • 60x70 • 60x75.5
Central 60x45 • Central 70x30 • 60x30 R

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Metallic spring arrow axle 027024	Axle 42	120	130	140	150	155	165	170	180	185	190	195	200	210	215
	Axle 60	130	140	150	155	170	175	180	185	190	195	200	210	215	220
	Axle 70	130	140	150	155	160	170	175	185	190	195	200	205	210	215
Spring Lock 1 element 036003	Axle 54	130	135	145	150	160	165	170	175	180	185	190	200	205	210
	Axle 60	135	145	150	160	165	170	175	180	190	195	200	205	210	215
Spring Lock 2 elements 036004	Axle 54	130	135	140	150	160	165	170	180	185	190	200	205	210	215
	Axle 60	130	145	150	160	165	170	175	180	185	190	200	205	210	215

Sizes are in mm.

Recommended box according to height

		Euroblock / Eurodecor					Aluminium box					Winblock			Alex
		155	170	185	200	225	137	150	165	180	205	155	200	230	250
Metallic spring arrow axle 027024	Axle 60	1,300	1,650	2,150	2,550	3,550	1,300	1,500	1,850	2,150	3,100	1,200	2,550	3,650	4,300
Spring Lock 2 elements 036004	Axle 60	-	-	-	-	-	-	-	-	-	-	-	-	-	3,800

Sizes are in mm.

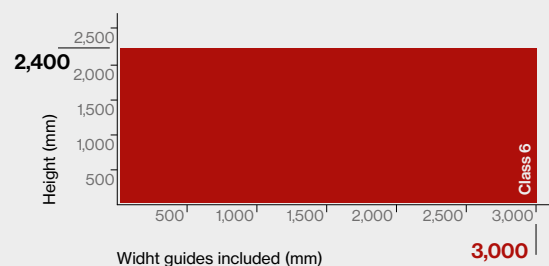
Additional thermal resistance

According to EN 13125.

ΔR Class 4 = 0.14 m² K/W

Wind resistance

EN 13659 (Wind resistance for rolling shutters).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

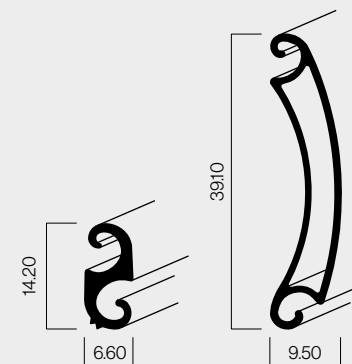
PS-40 Self-locking

015216 PS-40 Self-locking
015226 PS-40 Intermediate Profile



Technical characteristics

Area of covering	41.90 mm
Number slats by meter	23.90 units
Maximum recommended width	3,000 mm
Slat weight	8.60 kg/m²
Packaging unit standard	10 slats
Stock lengths	6 ml
Minimum rolling diameter	42 mm



End slats compatibility

B - Blind

Aluminium guide channels compatibility

UP-3.5/22 • H-25 • HC-25 • HD-25 • HSL • HSL-A
HSL-E • E • S • V-45

Set of cap compatibility

Set of cap PS-40 Self-locking (code 015250)

PVC guide channels compatibility

60x30 • 60x75.5 • Central 70x30

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Metallic spring arrow axle 027024	Axle 60	125	130	140	145	160	165	175	180	190	195	200	205	210	215
	Axle 70	125	135	140	155	160	175	180	185	190	195	205	210	215	220

Sizes are in mm.

Recommended box according to height

		Euroblock / Eurodecor					Aluminium box				Winblock		Alex
		155	170	185	200	225	137	165	180	205	200	230	250
Metallic spring arrow axle 027024	Axle 60	1,450	1,800	2,250	2,650	3,600	1,300	1,900	2,400	3,250	2,600	3,600	4,250
	Spring Lock 2 elements 036004	Axle 60	-	-	-	-	-	-	-	-	-	-	-

Sizes are in mm.

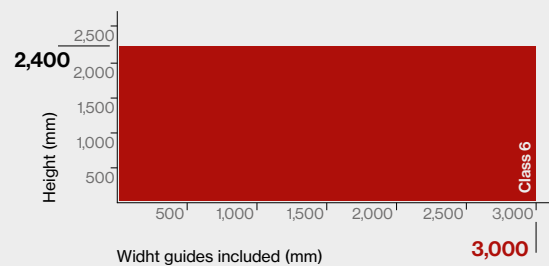
Additional thermal resistance

According to EN 13125.

ΔR Class 4 = 0.14 m² K/W

Wind resistance

EN 13659 (Wind resistance for rolling shutters).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

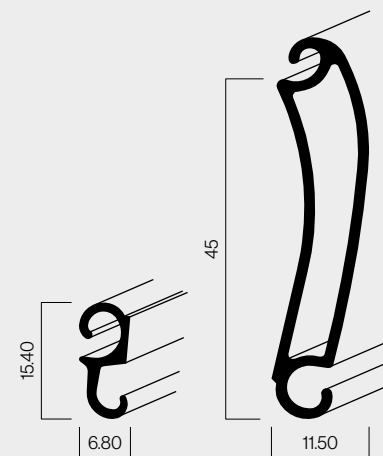
PS-45 Self-locking

033011 PS-45 Self-locking
033016 PS-45 Intermediate Profile



Technical characteristics

Area of covering	45 mm
Number slats by meter	22.22 units
Maximum recommended width	3,000 mm
Slat weight	9.90 kg/m²
Packaging unit standard	10 slats
Stock lengths	6 ml
Minimum rolling diameter	60 mm



End slats compatibility

E

Aluminium guide channels compatibility

UP-3.5/22 • H-25 • HC-25 • HD-25 • HSL • HSL-A
HSL-E • E • S • V-45

Set of cap compatibility

Set of cap PS-45 Self-locking (code 033004)

PVC guide channels compatibility

60x30 • 60x75.5 • Central 70x30

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Metallic spring arrow axle PS-45 033007	Axle 60	140	145	150	160	165	170	180	190	195	200	210	215	220	225
	Axle 70	145	155	160	170	175	180	190	195	200	210	215	220	225	230

Sizes are in mm.

Recommended box according to height

		Euroblock / Eurodecor					Aluminium box					Winblock		
		155	170	185	200	225	137	150	165	180	205	155	200	230
Metallic spring arrow axle PS-45 033007	Axle 60	1,250	1,850	2,000	2,300	3,215	1,200	1,340	1,850	2,200	2,600	1,150	2,350	3,000

Sizes are in mm.

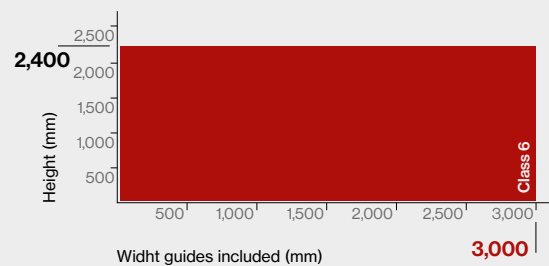
Additional thermal resistance

According to EN 13125.

ΔR Class 4 = 0.14 m² K/W

Wind resistance

EN 13659 (Wind resistance for rolling shutters).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

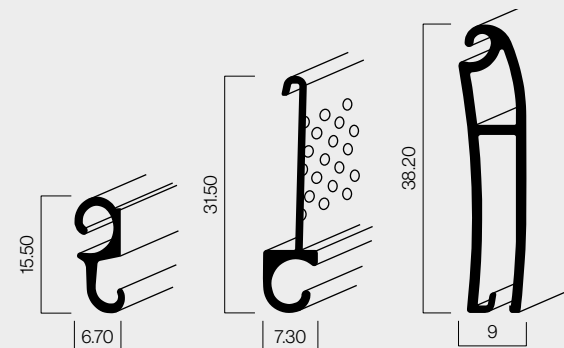
PM-45

015060 PM-45 Microperforated
 015061 PM-45 Empty
 015062 PM-45 Intermediate Profile



Technical characteristics

Area of covering (closed)	48.80 mm
Area of covering (deployed)	71.30 mm
Free ventilation area (deployed)	8.85 %
Number slats by meter	20.50 units
Maximum recommended width	3,000 mm
Slat weight	13.50 kg/m²
Packaging unit standard	10 slats
Stock lengths	5.80 ml / 6 ml
Minimum rolling diameter	60 mm



End slats compatibility

E

Set of cap compatibility

Set of cap PM-45 (code 015064)

Aluminium guide channels compatibility

UP-3.5/22 • H-25 • HC-25 • HD-25 • HSL • HSL-A
 HSL-E • E • S • V-45

PVC guide channels compatibility

60x30 • 60x75.5 • Central 70x30

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Metallic spring arrow axle PS-45 033007	Axle 60	150	155	165	180	185	200	210	220	225	235	240	245	250	255
	Axle 70	155	160	170	185	195	205	215	225	230	240	245	250	255	265

Sizes are in mm.

Recommended box according to height

		Euroblock / Eurodecor			Aluminium box			Winblock		Alex
		185	200	225	165	180	205	200	230	250
Metallic spring arrow axle PS-45 033007	Axle 60	1,450	1,700	2,400	1,150	1,450	1,900	1,700	2,600	3,000
	Axle 70	-	-	-	-	-	-	-	-	3,000

Sizes are in mm.

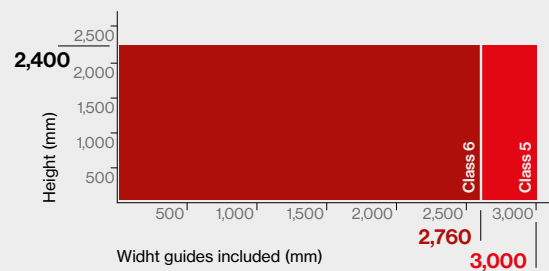
Additional thermal resistance

According to EN 13125.

ΔR Class 4 = 0.14 m² K/W

Wind resistance

EN 13659 (Wind resistance for rolling shutters).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

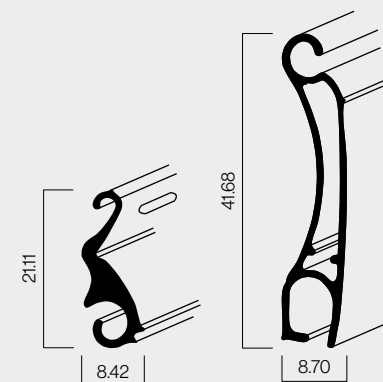
PS-48 Self-locking

015227 PS-48 Self-locking
 015228 PS-48 Intermediate Profile Vented
 015229 PS-48 Intermediate Profile Blind



Technical characteristics

Area of covering	47.80 mm
Number slats by meter	20.90 units
Maximum recommended width	3,000 mm
Slat weight	8.60 kg/m²
Packaging unit standard	10 slats
Stock lengths	5.80 ml / 6 ml
Minimum rolling diameter	50 mm



End slats compatibility

B-Blind

Aluminium guide channels compatibility

UP-3.5/22 • H-25 • HC-25 • HD-25 • HSL • HSL-A
 HSL-E • E • S • V-45

Set of cap compatibility

Set of cap PS-48 Self-locking with screw (code 505024)

PVC guide channels compatibility

60x30 • 60x75.5 • Central 70x30

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Metallic spring arrow axle 027024	Axle 60	125	130	145	150	155	160	170	180	185	190	195	200	210	215
	Axle 70	130	145	150	155	160	175	180	185	190	200	205	210	215	220

Sizes are in mm.

Recommended box according to height

		Euroblock / Eurodecor				Aluminium box					Winblock	Alex
		155	185	200	225	137	150	165	180	205	230	250
Metallic spring arrow axle 027024	Axle 60	1,345	2,305	2,770	3,630	1,057	1,350	2,017	2,449	2,893	3,800	4,500
	Spring Lock 2/3 elements 036003 • 036004	-	-	-	-	-	-	-	-	-	-	4,000

Sizes are in mm.

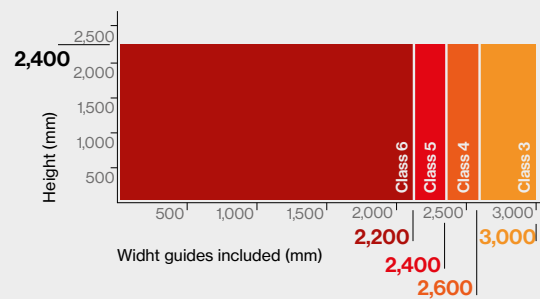
Additional thermal resistance

According to EN 13125.

ΔR Class 4 = 0.14 m² K/W

Wind resistance

EN 13659 (Wind resistance for rolling shutters).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

PM-49

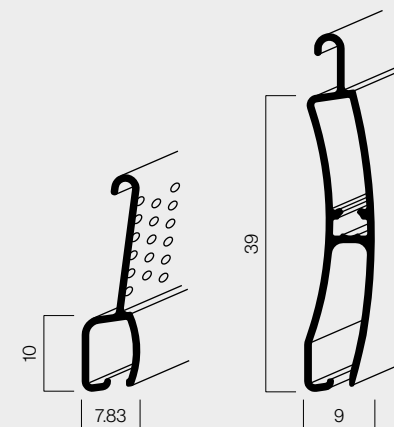
015084 PM-49

015091 PM-49 Intermediate Profile microperforated



Technical characteristics

Area of covering (closed)	49 mm
Area of covering (deployed)	68.30 mm
Área libre de aireación (deployed)	8.05 %
Number slats by meter	20.40 units
Maximum recommended width	3,000 mm
Slat weight	8.60 kg/m²
Packaging unit standard	10 slats
Stock lengths	5.80 ml / 6 ml
Minimum rolling diameter	50 mm



End slats compatibility

B-Blind

Set of cap compatibility

Set of cap PM-49 with screw (code 505082)

Aluminium guide channels compatibility

UP-3.5/22 • UP-40/22 • UP-45/22 • ZF-8 • H-25-FC
 HR-C-25 • H-25 • HC-25 • HD-25 • HSL • HSL-A
 HSL-E • E • S • H-66 • Ref. 1229 • 16.80x28.40
 17.20x28.40 • V-25 Ref. 9178 • V-25 Ref. 9182 • V-45

PVC guide channels compatibility

60x30 • 60x40 • 55x45 • 60x45 • 60x70 • 60x75.5
 Central 60x45 • Central 70x30 • 60X30 R

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Mixed spring lock treated steel 027162	Axle 60	140	155	160	175	185	190	200	205	215	220	225	230	235	245
	Axle 70	145	155	160	175	180	190	195	205	210	220	225	230	235	240
Spring Lock 2 elements 036004	Axle 60	165	170	175	180	195	200	210	215	225	230	240	245	250	255
	Axle 70	165	180	185	200	205	215	220	230	235	245	250	255	260	265
Union L&P 2 elements 502831	Axle 60	145	150	160	175	180	190	195	205	210	220	225	230	235	240

Sizes are in mm.

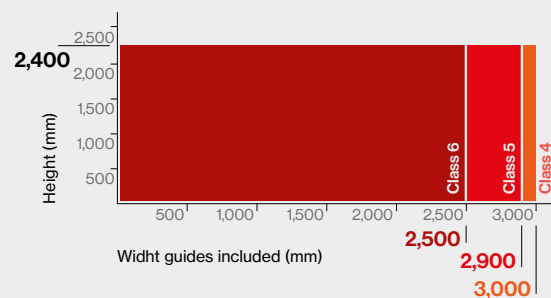
Recommended box according to height

		Euroblock / Eurodecor					Aluminium box						Winblock			Alex
		155	170	185	200	225	137	150	165	180	205	230	155	200	230	250
Mixed spring lock treated steel 027162	Axle 60	1,130	1,430	1,800	2,150	2,970	970	1,130	1,485	1,845	2,655	3,265	1,020	2,110	3,070	3,600
	Axle 70	-	-	-	1,960	2,430	-	-	-	1,845	2,410	3,120	-	2,160	2,925	-
Spring Lock 2 elements 036004	Axle 60	930	1,300	1,650	1,960	2,525	630	930	1,260	1,650	2,460	2,925	830	1,910	2,825	3,150
	Axle 70	-	-	-	1,130	2,280	-	-	-	1,110	1,870	2,310	-	1,375	2,335	-
Union L&P 2 elements 502831	Axle 60	1,130	1,390	1,700	2,050	2,970	870	1,130	1,430	1,840	2,655	3,170	930	2,060	2,970	-

Sizes are in mm.

Wind resistance

EN 13659 (Wind resistance for rolling shutters).



Additional thermal resistance

According to EN 13125.

ΔR Class 4 = 0.14 m² K/W

EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

PS-53

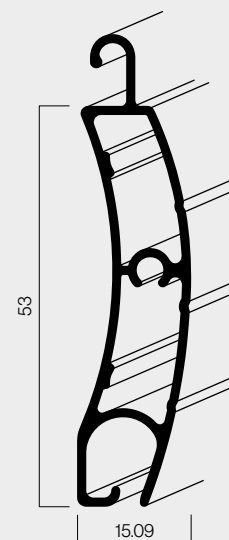
033396 PS-53 Vented

033397 PS-53 Blind



Technical characteristics

Area of covering	53 mm
Number slats by meter	18.87 units
Maximum recommended width (EN 13659)	5,000 mm
Maximum recommended width (EN 13241)	4,200 mm
Slat weight	10.34 kg/m²
Packaging unit standard	5 slats
Stock lengths	6.50 ml
Minimum rolling diameter	80 mm



End slats compatibility

G - Interior • J

Aluminium guide channels compatibility

19.15x28.40 • UPS-6.5 • UPS-7.5 • UPS-9.5 • VH
UPH-9.5

Set of cap compatibility

Set of cap PS-53 with screw (code 505077)

Option with screw hurricane reinforcement (code 507468)

Rolling diameter chart

		Height																											
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400	3,600	3,800	4,000	4,200	4,400	4,600	4,800	5,000	5,200	5,400	5,600	5,800	6,000	
Small metal spring without protection 507010	Axle 70	160	170	180	190	200	210	220	225	230	240	250	260	270	280	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Axle 100	180	185	190	200	210	220	230	240	250	255	260	270	280	290	-	-	-	-	-	-	-	-	-	-	-	-	-	
Self-locking spring 2/3 elements 507170 • 507173	Axle 100*	175	175	200	200	200	225	225	230	250	250	250	275	275	275	290	300	300	-	-	-	-	-	-	-	-	-		
	Axle 130*	185	210	210	225	230	245	245	255	255	255	280	280	280	295	305	305	305	310	330	330	330	330	345	355	355	355		
Arrow spring lock for pulley 507441	220	275	275	275	300	300	305	305	325	325	325	330	350	350	350	355	365	380	380	380	380	380	400	405	405	405	405		
	240	295	295	295	300	325	325	325	325	345	345	345	345	350	375	375	375	375	375	390	400	400	400	400	400	425	425		

Sizes are in mm.

*Equivalent to axles of 70 and 80 with ZF spring locks 2 and 3 elements.

Recommended box according to height

		Aluminium box			Winblock	Alex
		250	300	360	230	250
Small metal spring without protection 507010	Axle 70	3,000	4,450	6,890	2,300	2,950
	Axle 100*	2,590	4,400	6,470	-	2,650
Self-locking spring 2/3 elements 507170 • 507173	Axle 130*	-	-	6,260	-	-
	Axle 100*	-	-	-	-	-
Arrow spring lock for pulley 507441	220	-	-	3,800	-	-

Sizes are in mm.

*Equivalent to axles of 70 and 80 with ZF spring locks 2 and 3 elements.

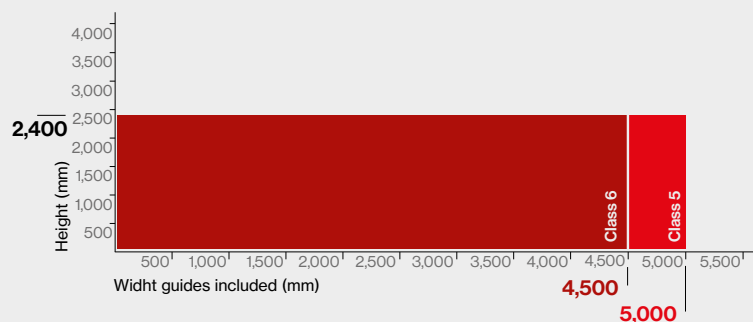
Additional thermal resistance

According to EN 13125.

ΔR Class 4 = 0.14 m² K/W

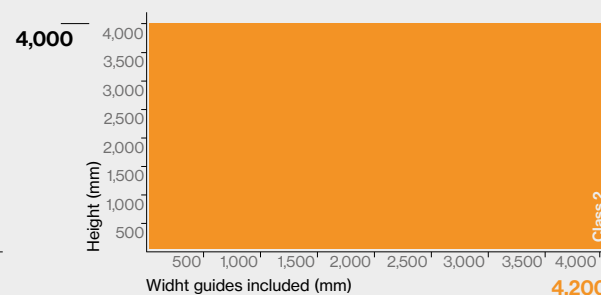
Wind resistance

EN 13659 (Wind resistance for rolling shutters).



Wind resistance

EN 13241 (Wind resistance for rolling doors).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

EN 13241

Minimum required (CE)

Class 1: ≥ 415 Pa ≈ 94 km/h

Class 2: ≥ 620 Pa ≈ 115 km/h

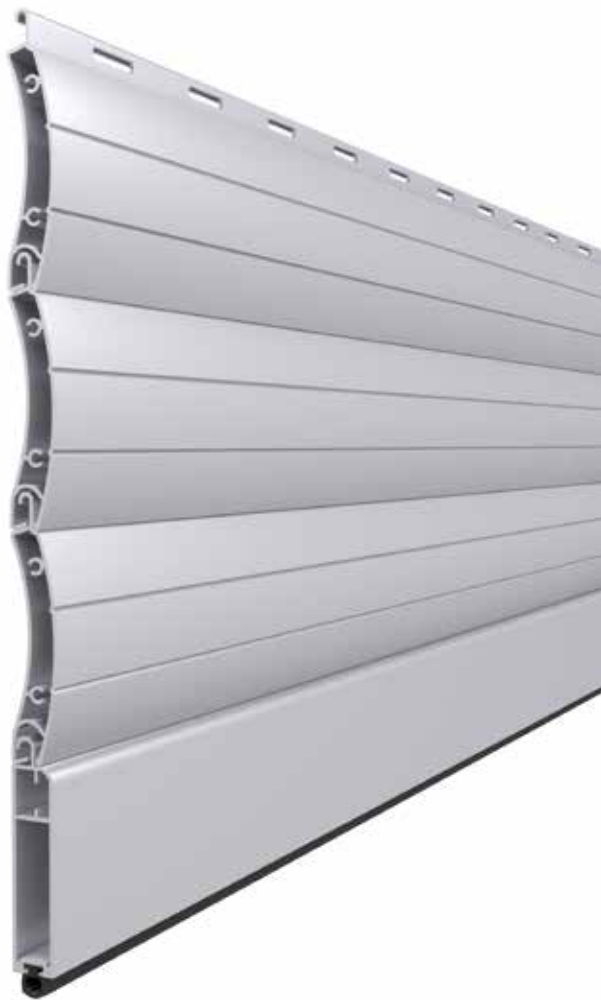
Class 3: ≥ 965 Pa ≈ 143 km/h

Class 4: ≥ 1.375 Pa ≈ 171 km/h

Class 5: c.d. x 1.25 ≈ 171 km/h

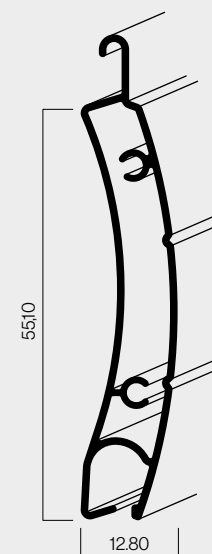
PS-55 S

505041 PS-55 S Vented
505040 PS-55 S Blind



Technical characteristics

Area of covering	55.10 mm
Number slats by meter	18.15 units
Maximum recommended width	4,000 mm
Slat weight	7.90 kg/m²
Packaging unit standard	5 slats
Stock lengths	6.20 ml
Minimum rolling diameter	60 mm



End slats compatibility

H • SP

Aluminium guide channels compatibility

UP-40/25 • UP-50/25 • ZF-14 • 17.20x28.40
19,15x28,40 • UPS-6.5 • UPS-7.5 • UPS-9.5

Set of cap compatibility

Set of cap PS-55 with screw (code 505044)

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Mixed spring lock treated steel 027162	Axle 60	145	160	165	175	185	185	200	210	215	225	225	230	245	245
	Axle 70	155	160	170	170	190	190	205	210	210	230	230	230	250	250
Self-locking spring 2/3 elements 036003 • 036004	Axle 60	160	160	180	180	195	195	200	215	215	230	240	240	245	260
	Axle 80	170	170	185	190	190	210	210	215	230	230	235	250	250	250

Sizes are in mm.

Recommended box according to height

		Aluminium box			Winblock	Alex
		205	250	300	230	250
Mixed spring lock treated steel 027162	Axle 60	*2,635	-	-	2,665	3,300
	Axle 70	*2,300	3,520	5,470	2,790	3,020
Self-locking spring 2/3 elements 036003 • 036004	Axle 60	*2,300	3,520	5,580	2,665	3,070
	Axle 80	*1,970	3,240	5,250	2,510	2,760

Sizes are in mm.

**Rolling made without guide entries with the openings made in the guides.

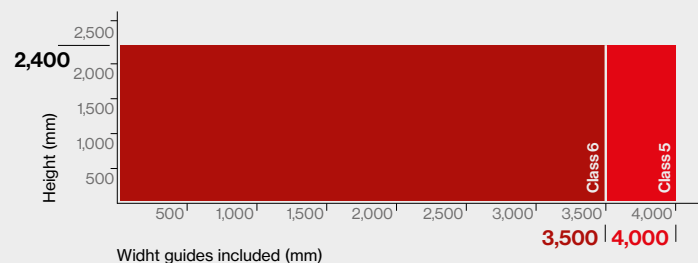
Additional thermal resistance

According to EN 13125.

ΔR Class 4 = 0.14 m² K/W

Wind resistance

EN 13659 (Wind resistance for rolling shutters).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

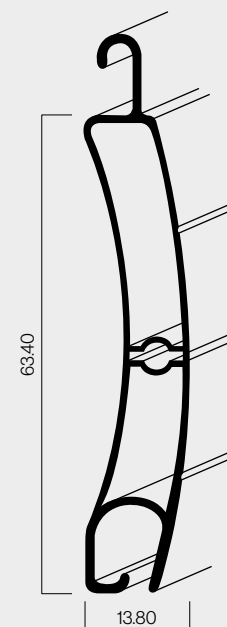
PS-64

033401 PS-64 Vented
033399 PS-64 Blind



Technical characteristics

Area of covering	63.40 mm
Number slats by meter	15.77 units
Maximum recommended width (EN 13659)	5,500 mm
Maximum recommended width (EN 13241)	4,000 mm
Slat weight	8.31 kg/m²
Packaging unit standard	5 slats
Stock lengths	5.80 ml / 6,50 ml
Minimum rolling diameter	80 mm



End slats compatibility

G - Interior • J

Set of cap compatibility

Set of cap PS-64 with screw (code 505076)

Option with screw hurricane reinforcement (code 507468)

Aluminium guide channels compatibility

19.15x28.40 • UP-40/25 • UP-50/25 • UPS-6.5

UPS-7.5 • UPS-9.5 • UPH-9.5

Rolling diameter chart

		Height																											
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400	3,600	3,800	4,000	4,200	4,400	4,600	4,800	5,000	5,200	5,400	5,600	5,800	6,000	
Small metal spring without protection 507010	Axle 70	170	180	190	195	200	210	215	220	230	235	240	250	260	270	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Axle 100	180	190	195	200	210	230	240	240	245	250	260	265	270	280	290	-	-	-	-	-	-	-	-	-	-	-	-	
Self-locking spring 2/3 elements 507170 • 507173	Axle 100*	185	185	195	205	225	225	230	230	245	250	255	255	270	270	275	280	290	-	-	-	-	-	-	-	-	-	-	
	Axle 130*	185	210	210	215	230	245	245	250	255	255	270	275	275	285	290	295	300	305	310	320	320	320	330	340	340	340	350	
Arrow spring lock for pulley 507441	220	275	275	275	295	295	305	295	305	315	320	320	320	335	340	345	345	355	360	365	365	365	370	380	390	390	390	390	
	240	295	295	295	295	315	325	315	315	335	335	340	340	340	360	365	365	365	365	380	385	385	385	385	390	405	410	410	

Sizes are in mm.

*Equivalent to axles of 70 and 80 with ZF spring locks 2 and 3 elements.

Recommended box according to height

		Aluminium box			Winblock	Alex
		250	300	360	230	250
Small metal spring without protection 507010	Axle 70	3,000	4,650	7,080	2,400	2,800
	Axle 100*	2,800	4,600	7,080	-	2,600
Self-locking spring 2/3 elements 507170 • 507173	Axle 130*	-	4,300	6,643	-	-
	Axle 100*	-	-	-	-	-
Arrow spring lock for pulley 507441	220	-	2,600	4,540	-	-
	240	-	-	-	-	-

Sizes are in mm.

*Equivalent to axles of 70 and 80 with ZF spring locks 2 and 3 elements.

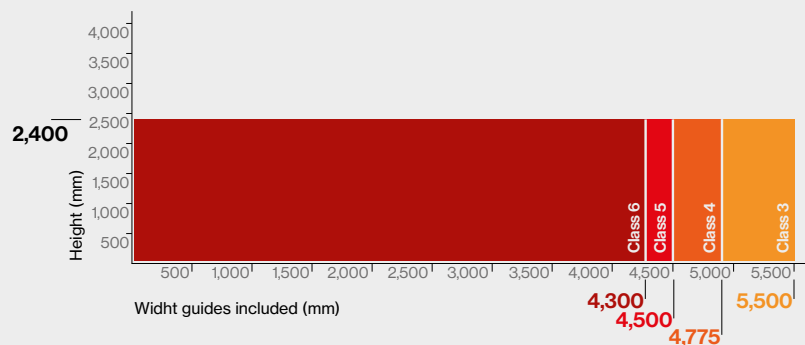
Additional thermal resistance

According to EN 13125.

ΔR Class 4 = 0.14 m² K/W

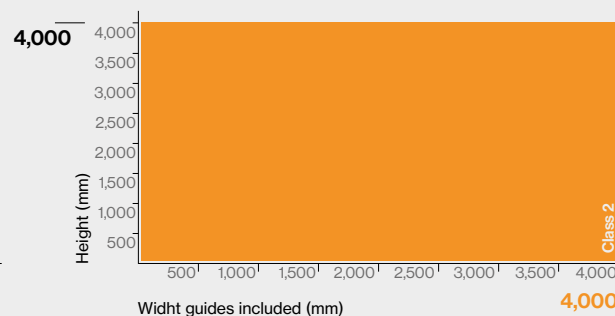
Wind resistance

EN 13659 (Wind resistance for rolling shutters).



Wind resistance

EN 13241 (Wind resistance for rolling doors).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

EN 13241

Minimum required (CE)

Class 1: ≥ 415 Pa ≈ 94 km/h

Class 2: ≥ 620 Pa ≈ 115 km/h

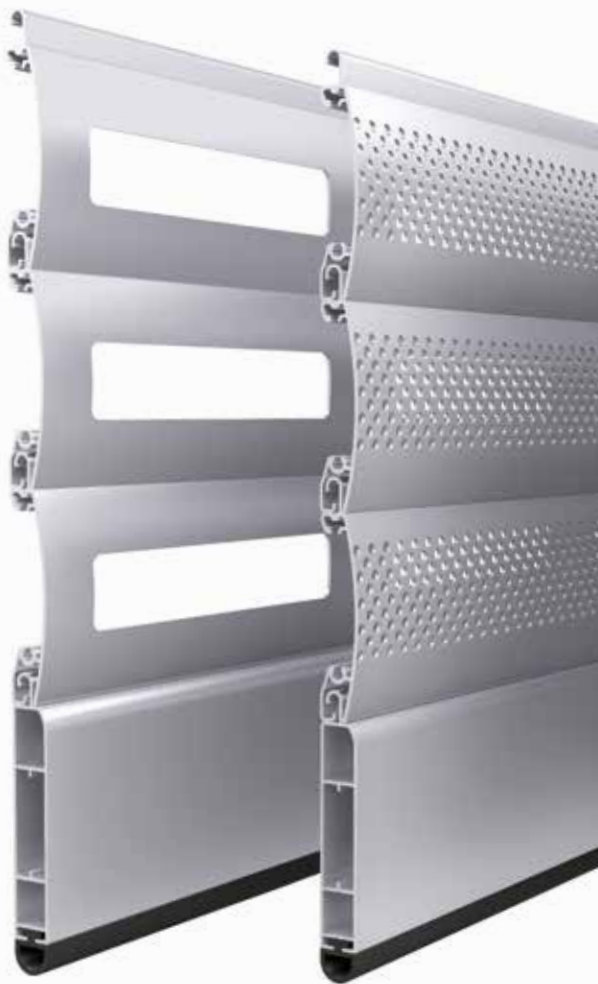
Class 3: ≥ 965 Pa ≈ 143 km/h

Class 4: ≥ 1.375 Pa ≈ 171 km/h

Class 5: c.d. x 1.25 ≈ 171 km/h

PS-64 M

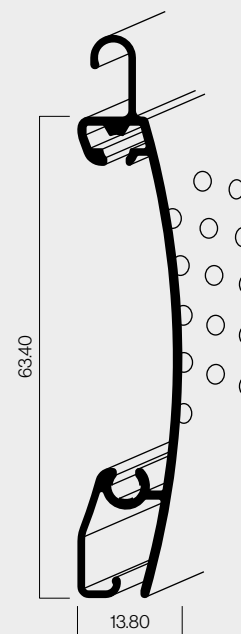
505025 PS-64 M Blind
 505030 PS-64 M Vented
 505031 PS-64 M Perforated
 505027 PS-64 M Microperforated



Technical characteristics

Area of covering (closed)	63.40 mm
Area of covering (deployed)	68.50 mm
*Free ventilation area of perforated	27.30 %
*Free ventilation area of microperforated	13.20 %
Number slats by meter	15.77 units
Maximum recommended width	3,600 mm
Slat weight	7 kg/m²
Packaging unit standard	5 slats
Stock lengths	6.50 m
Minimum rolling diameter	70 mm
Opening size, perforated slat	23x120 mm

*Approximate value of the total overall door spaces excluding end slat.



End slats compatibility

G - Interior • J

Set of cap compatibility

Set of cap **PS-64 M with screw** (code 505029)

Aluminium guide channels compatibility

19.15x28.40 • UP-50/25 • UPS-6.5 • UPS-7.5 • UPS-9.5

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Small metal spring without protection 507010	Axle 70	180	190	195	200	210	220	230	235	240	250	255	260	265	270
Axle spring drill flat slat 507537	Axle 100	190	195	200	210	220	230	240	245	250	260	265	270	280	290
Self-locking spring 2/3 elements 507170 • 507173	Axle 100*	185	185	195	205	205	225	230	230	245	250	255	255	270	270
	Axle 130*	180	210	210	215	230	230	240	250	255	255	270	275	280	285
Arrow spring lock for pulley 507441	220	275	275	275	295	295	295	295	315	315	315	320	335	335	340
	240	290	290	290	290	310	310	310	310	335	335	335	335	345	360

Sizes are in mm.

*Equivalent to axles of 70 and 80 with ZF spring locks 2 and 3 elements.

Recommended box according to height

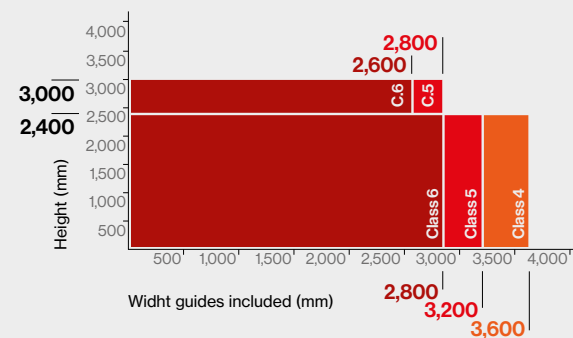
		Aluminium box			Winblock	Alex
		250	300	360	230	250
Small metal spring without protection 507010	Axle 70	3,000	4,650	7,080	2,400	2,800
Self-locking spring 2/3 elements 507170 • 507173	Axle 100*	2,800	4,600	7,080	-	2,600
	Axle 130*	-	4,300	6,643	-	-
Arrow spring lock for pulley 507441	220	-	2,600	4,540	-	-

Sizes are in mm.

* Equivalente a Axles de 70 u 80 con tirantes ZF de 2 y 3 elementos.

Wind resistance

EN 13659 (Wind resistance for rolling shutters).



Additional thermal resistance

According to EN 13125.

ΔR Class 4 = 0.14 m² K/W

*Except perforated formats and micro-perforated:

ΔR Class 4 = 0.08 m² K/W

EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

PS-65 Self-locking

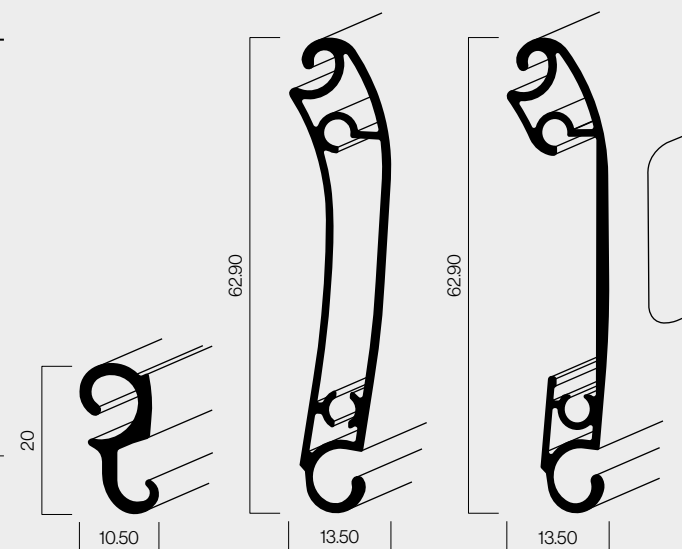
033302 PS-65 Self-locking tubular
 033311 PS-65 Self-locking Blind
 033312 PS-65 Self-locking Perforated
 033322 PS-65 Intermediate Profile



Technical characteristics

Area of covering	65.10 mm
*Free ventilation area of perforated	26.50 %
Number slats by meter	15.40 units
Maximum recommended width (EN 13659)	4,500 mm
Maximum recommended width (EN 13241)	3,150 mm
Slat weight	11 kg/m²
Packaging unit standard	10 slats
Stock lengths	5.80 m / 7 m
Minimum rolling diameter	80 mm
Opening size, perforated slat	23x120 mm

*Aproximate value of the total overall door spaces excluding end slat.



End slats compatibility

F

Set of cap compatibility

Set of cap **PS-65 Self-locking with screw** (code 033361)

Aluminium guide channels compatibility

UPS-6.5 • UPS-7.5 • UPS-9.5

Rolling diameter chart

		Height																											
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400	3,600	3,800	4,000	4,200	4,400	4,600	4,800	5,000	5,200	5,400	5,600	5,800	6,000	
Metallic spring lock 507014	Axle 70	180	190	195	200	210	215	220	230	240	245	250	255	260	270	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Axle 100	190	200	205	210	215	220	230	240	245	250	255	260	270	280	285	290	295	310	-	-	-	-	-	-	-	-	-	
	Axle 130	-	-	-	-	215	225	230	235	245	250	260	270	280	285	290	295	300	310	-	-	-	-	-	-	-	-	-	
Self-locking spring 2/3 elements 507170 • 507173	Axle 130	195	215	215	215	240	240	240	260	260	260	280	280	285	285	305	305	310	310	330	330	330	330	335	350	355	355	355	

Sizes are in mm.

Recommended box according to height

		Aluminium box			Winblock	Alex
		250	300	360	230	250
Metallic spring lock 507014	Axle 70	2,800	4,000	6,250	2,300	2,550
Self-locking spring 2/3 elements 507170 • 507173	Axle 100*	2,600	3,800	6,250	-	2,450
	Axle 130*	2,400	3,600	6,530	-	-

Sizes are in mm.

*Equivalent to axles of 70 and 80 with ZF spring locks 2 and 3 elements.

Additional thermal resistance

According to EN 13125.

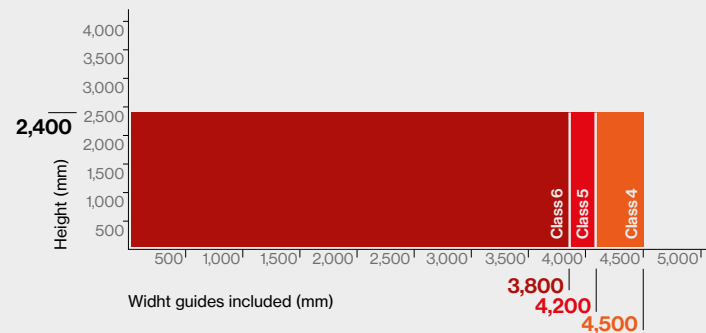
ΔR Class 4 = 0.14 m² K/W

*Except perforated formats and micro-perforated:

ΔR Class 4 = 0.08 m² K/W

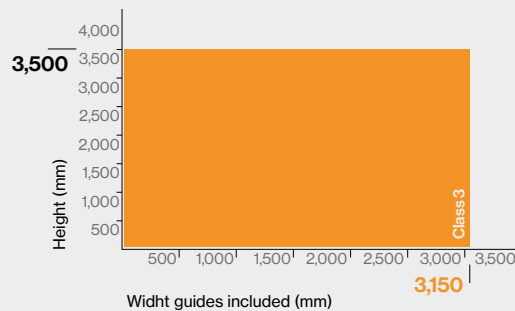
Wind resistance

EN 13659 (Wind resistance for rolling shutters).



Wind resistance

EN 13241 (Wind resistance for rolling doors.).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

EN 13241

Minimum required (CE)

Class 1: ≥ 415 Pa ≈ 94 km/h

Class 2: ≥ 620 Pa ≈ 115 km/h

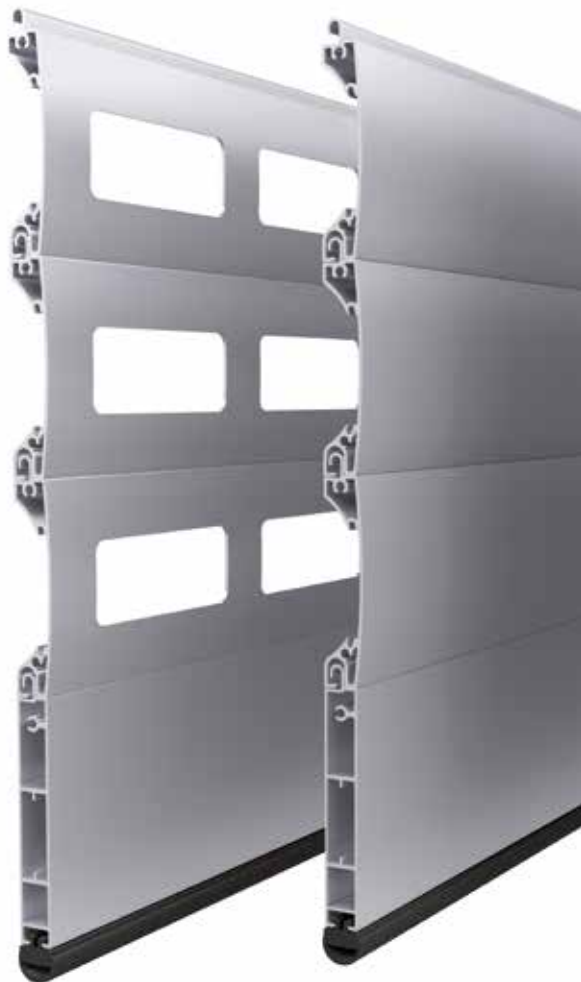
Class 3: ≥ 965 Pa ≈ 143 km/h

Class 4: ≥ 1.375 Pa ≈ 171 km/h

Class 5: c.d. x 1.25 ≈ 171 km/h

PS-79

505012 PS-79 Blind
505022 PS-79 Perforated
505016 PS-79 Tubular



Technical characteristics

Area of covering	78.70 mm
*Free ventilation area of perforated	31.40 %
Number slats by meter	12.70 units
Maximum recommended width	4,410 mm
Slat weight Blind	8.82 kg/m²
Slat weight tubular	9.60 kg/m²
Packaging unit standard	5 slats
Stock lengths	5.80 m / 7 m
Minimum rolling diameter	100 mm
Opening size, perforated slat	31x85 mm

*Aproximate value of the total overall door spaces excluding end slat.

End slats compatibility

I • N Curved

Set of cap compatibility

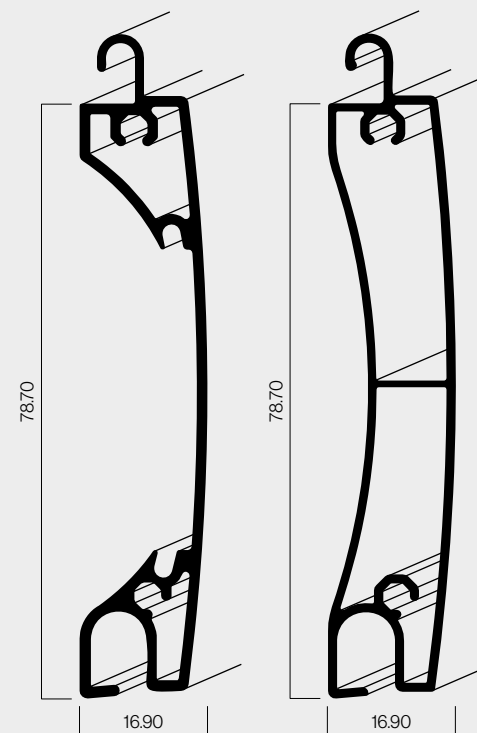
Set of cap PS-79 with screw (code 505075)

Set of cap PS-79 Tubular with screw (code 505074)

Aluminium guide channels compatibility

GE-34/70 • GE-36/60 • GE-36/80 • GE-36/100

GE-38/100 • GE-76/100



Rolling diameter chart

		Height																											
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400	3,600	3,800	4,000	4,200	4,400	4,600	4,800	5,000	5,200	5,400	5,600	5,800	6,000	
Axle spring drill flat slat 507537	Axle 100	175	185	195	200	210	220	230	240	250	255	260	265	270	310	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Axle 130	190	200	210	220	230	240	245	255	265	270	280	285	290	325	-	-	-	-	-	-	-	-	-	-	-	-	-	
Self-locking spring 2/3 elements 507170 • 507173	Axle 100*	205	220	225	230	255	260	260	280	280	290	290	315	320	320	320	340	345	-	-	-	-	-	-	-	-	-	-	
	Axle 130*	215	245	245	245	265	275	275	275	295	305	305	305	325	335	335	335	335	360	365	365	370	370	395	395	395	395	395	
Arrow spring lock for pulley 507441	220	295	295	295	295	325	325	325	325	355	355	355	355	355	385	385	385	385	385	400	410	410	410	410	415	440	440	440	
	240	315	315	315	315	345	345	345	345	345	365	375	375	375	375	395	405	405	405	405	405	430	430	430	430	430	430	450	

Sizes are in mm.

*Equivalent to axles of 70 and 80 with ZF spring locks 2 and 3 elements.

Recommended box according to height

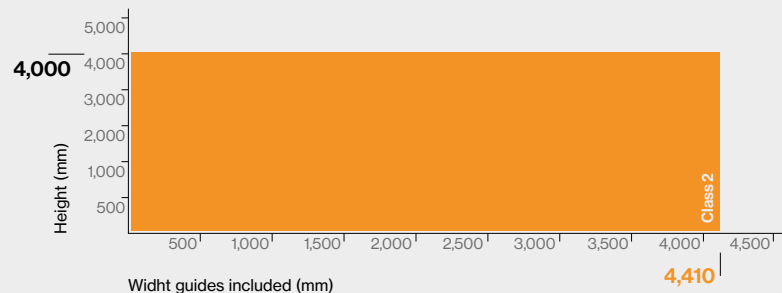
		Aluminium box				Alex			
		250	300	360	400	350	400	400x450	450
Self-locking spring 2/3 elements 507170 • 507173	Axle 100*	1,920	3,300	5,050	6,000	-	-	-	-
	Axle 130*	1,860	3,200	4,575	5,600	-	-	-	-
Arrow spring lock for pulley 507441	220	-	-	3,260	4,400	2,520	4,400	4,400	5,600
	240	-	-	2,600	3,670	1,900	3,670	3,670	5,070
	280	-	-	-	3,000	-	3,000	3,000	4,630

Sizes are in mm.

*Equivalent to axles of 70 and 80 with ZF spring locks 2 and 3 elements.

Wind resistance

EN 13241 (Wind resistance for rolling doors).



Additional thermal resistance

According to EN 13125.

ΔR Class 4 = 0.14 m² K/W

*Except perforated formats and micro-perforated:

ΔR Class 4 = 0.08 m² K/W

EN 13241

Minimum required (CE)

Class 1: ≥ 415 Pa ≈ 94 km/h

Class 2: ≥ 620 Pa ≈ 115 km/h

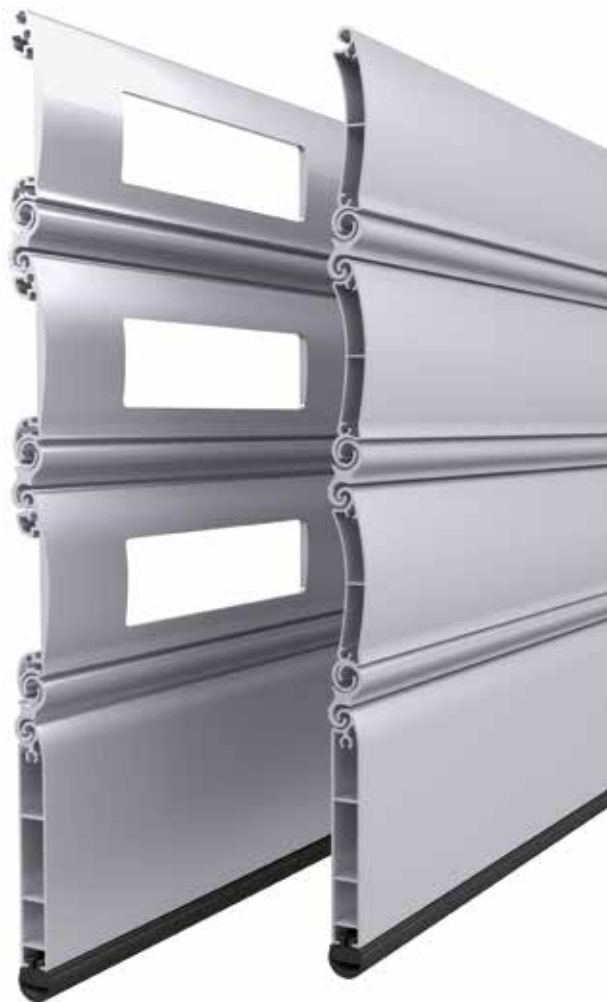
Class 3: ≥ 965 Pa ≈ 143 km/h

Class 4: ≥ 1.375 Pa ≈ 171 km/h

Class 5: c.d. x 1.25 ≈ 171 km/h

PS-80 Self-locking

033261 PS-80 Self-Locking Tubular
 033266 PS-80 Self-Locking Perforated
 033276 PS-80 Intermediate Profile



Technical characteristics

Area of covering	87.30 mm
*Free ventilation area of perforated	33.20 %
Number slats by meter	11.50 units
Maximum recommended width	4,100 mm
Slat weight tubular	11.89 kg/m²
Slat weight Blind - 1 Wall	16.93 kg/m²
Packaging unit standard	5 slats
Stock lenghts	5.80 ml / 7 ml
Minimum rolling diameter	100 mm
Opening size, perforated slat	38x150 mm

*Aproximate value of the total overall door spaces excluding end slat.

End slats compatibility

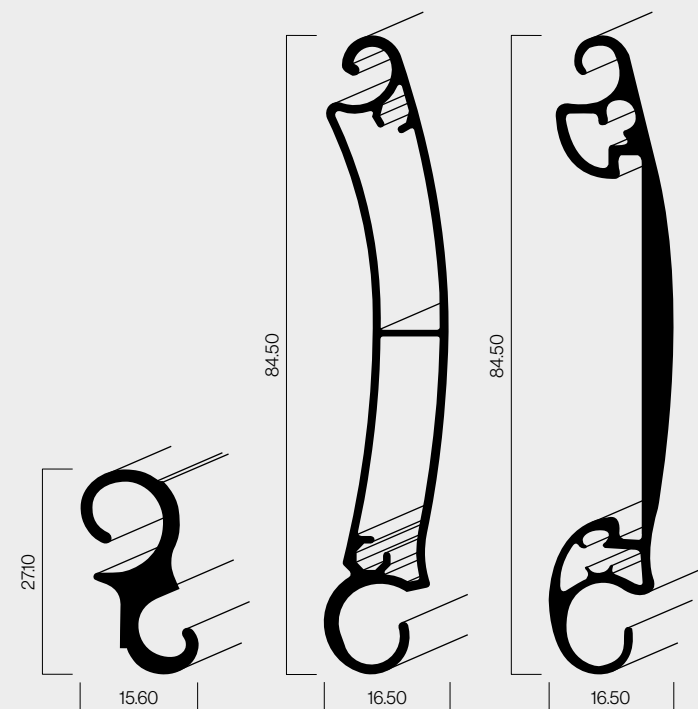
K

Set of cap compatibility

Set of cap PS-80 Self-locking with screw (code 033291)

Aluminium guide channels compatibility

GE-36/60 • GE-36/80 • GE-36/100 • GE-38/100
 GE-76/100



Rolling diameter chart

		Height																											
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400	3,600	3,800	4,000	4,200	4,400	4,600	4,800	5,000	5,200	5,400	5,600	5,800	6,000	
Axle spring drill R3000 350 507538	Axle 100	-	-	-	-	215	230	235	240	255	255	265	270	275	280	290	300	305	310	315	320	330	340	-	-	-	-	-	
	Axle 130	-	-	-	-	235	240	245	255	265	270	275	280	290	295	305	310	315	325	330	335	340	350	-	-	-	-	-	
Self-locking spring 2/3 elements 507170 • 507173	Axle 130	195	230	230	255	255	255	280	280	280	295	305	305	305	330	330	330	330	355	355	355	355	375	385	385	385	385	400	

Sizes are in mm.

Recommended box according to height

		Aluminium box			
		250	300	360	400
Axle spring drill R3000 350 507538	Axle 100	2,200	3,500	5,810	7,200
	Axle 130	1,800	3,000	4,880	6,200

Sizes are in mm.

Additional thermal resistance

According to EN 13125.

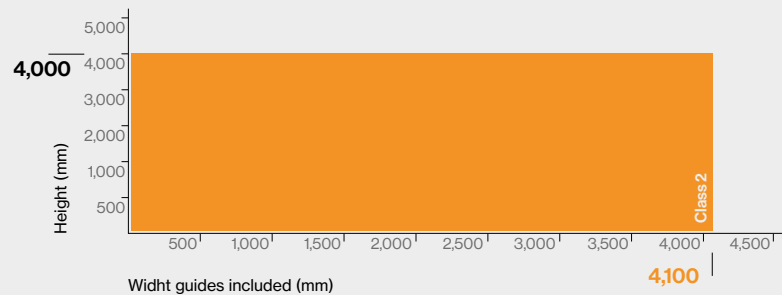
ΔR Class 4 = 0.14 m² K/W

*Except perforated formats and micro-perforated:

ΔR Class 4 = 0.08 m² K/W

Wind resistance

EN 13241 (Wind resistance for rolling doors.).



EN 13241

Minimum required (CE)

Class 1: ≥ 415 Pa ≈ 94 km/h

Class 2: ≥ 620 Pa ≈ 115 km/h

Class 3: ≥ 965 Pa ≈ 143 km/h

Class 4: ≥ 1.375 Pa ≈ 171 km/h

Class 5: c.d. x 1.25 ≈ 171 km/h

PS-85 Flat

033272 PS-85 Flat



Technical characteristics

Area of covering	85 mm
Number slats by meter	11.80 units
Maximum recommended width (EN 13659)	6,000 mm
Maximum recommended width (EN 13241)	5,000 mm
Slat weight	10.17 kg/m²
Packaging unit standard	5 slats
Stock lengths	5.80 ml / 7 ml
Minimum rolling diameter	100 mm

End slats compatibility

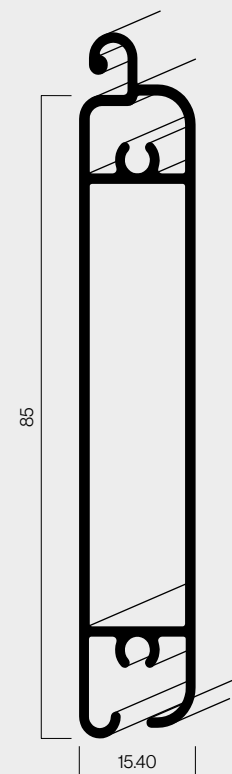
R

Set of cap compatibility

Set of cap PS-85 Flat with screw (code 505019)

Aluminium guide channels compatibility

VH • GE-34/65 + Lodge-guide 94x80 • GE-36/60
 GE-36/80 • GE-36/100 • GE-38/100 • GE-76/100
 GE-34/65 + Double lodge-guide 120x80 N



Rolling diameter chart

		Height																											
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400	3,600	3,800	4,000	4,200	4,400	4,600	4,800	5,000	5,200	5,400	5,600	5,800	6,000	6,200
Axle spring drill flat slat 507537	Axle 100	-	240	250	260	265	275	285	290	300	310	318	325	335	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Axle 130	-	245	255	265	270	280	290	300	310	317	327	335	345	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Self-locking spring 2/3 elements 507170 • 507173	Axle 100*	210	240	245	250	270	285	290	290	300	320	325	325	325	350	360	365	365	-	-	-	-	-	-	-	-	-	-	-
	Axle 130*	230	230	270	270	270	270	310	310	310	310	335	345	345	345	345	385	385	385	385	385	385	400	420	420	420	420	420	440
Arrow spring lock for pulley 507441	220	310	325	325	325	325	365	365	365	365	365	405	405	405	405	405	405	405	415	415	415	415	445	460	460	460	460	460	-
	240	325	335	335	335	335	360	375	375	375	375	375	420	420	420	420	420	420	440	440	440	440	440	440	480	480	480	480	-
	280	340	370	370	370	370	380	390	410	410	410	410	410	410	430	430	440	440	440	440	440	440	480	480	480	480	480	520	520

Sizes are in mm.

*Equivalent to axles of 70 and 80 with ZF spring locks 2 and 3 elements.

Recommended box according to height

		Aluminium box			Alex			
		300	360	400	350	400	400x450	450
Self-locking spring 2/3 elements 507170 • 507173	Axle 100*	2,600	4,140	4,300	-	-	-	-
	Axle 130*	2,350	3,970	4,200	-	-	-	-
Arrow spring lock for pulley 507441	220	-	2,690	3,410	1,830	3,410	3,410	5,330
	240	-	-	3,070	1,150	3,070	3,070	4,310
	280	-	-	2,560	-	2,560	2,560	4,140

Sizes are in mm.

*Equivalent to axles of 70 and 80 with ZF spring locks 2 and 3 elements.

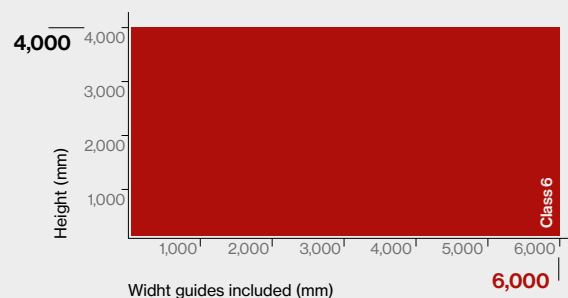
Additional thermal resistance

According to EN 13125.

ΔR Class 4 = 0.14 m² K/W

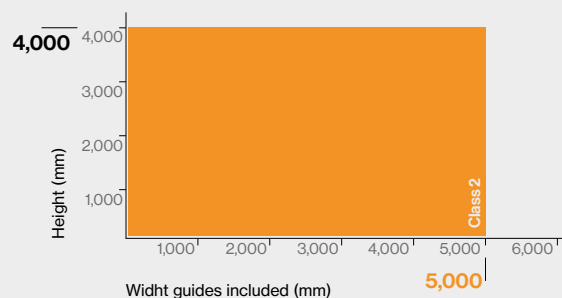
Wind resistance

EN 13659 (Wind resistance for rolling shutters).



Wind resistance

EN 13241 (Wind resistance for rolling doors).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

EN 13241

Minimum required (CE)

Class 1: ≥ 415 Pa ≈ 94 km/h

Class 2: ≥ 620 Pa ≈ 115 km/h

Class 3: ≥ 965 Pa ≈ 143 km/h

Class 4: ≥ 1.375 Pa ≈ 171 km/h

Class 5: c.d. x 1.25 ≈ 171 km/h

PS-100 Flat

033273 PS-100 Flat Blind
 033275 PS-100 Flat Perforated
 033274 PS-100 Flat Microperforated



Technical characteristics

Area of covering	100 mm
*Free ventilation area of perforated	39.20 %
*Free ventilation area of microperforated	16.00 %
Number slats by meter	10 units
Maximum recommended width (EN 13659)	6,000 mm
Maximum recommended width (EN 13241)	4,200 mm
Slat weight	8.35 kg/m²
Packaging unit standard	5 slats
Stock lengths	5.80 m / 7 m
Minimum rolling diameter	130 mm
Opening size, perforated slat	55x175 mm

*Approximate value of the total overall door spaces excluding end slat.

End slats compatibility

R

Set of cap compatibility

Set of cap PS-100 Flat with screw (code 503184)

Aluminium guide channels compatibility

VH • GE-34/65 + Lodge-guide 94x80 • GE-36/60
 GE-36/80 • GE-36/100 • GE-38/100 • GE-76/100
 GE-34/65 + Double lodge-guide 120x80 N



Rolling diameter chart

		Height																											
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400	3,600	3,800	4,000	4,200	4,400	4,600	4,800	5,000	5,200	5,400	5,600	5,800	6,000	6,200
Axle spring drill flat slat 507537	Axle 130	-	220	235	260	265	270	290	295	300	310	325	330	335	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Axle 100*	195	215	225	235	235	240	245	245	260	275	275	280	280	295	315	315	315	-	-	-	-	-	-	-	-	-	-	-
Self-locking spring 2/3 elements 507170 • 507173	Axle 130*	195	215	225	225	255	255	255	265	275	275	275	295	295	305	305	315	315	325	325	325	340	350	350	350	355	380	380	-
	220	285	305	305	305	325	325	325	325	345	355	355	355	355	365	365	365	365	365	380	385	385	385	385	405	415	415	415	-
Arrow spring lock for pulley 507441	240	315	325	325	325	325	355	355	355	355	355	375	375	375	375	375	385	395	395	395	395	405	415	415	415	415	425	440	-
	280	330	340	350	350	350	350	380	380	380	380	380	400	410	410	410	410	410	420	420	420	430	430	430	440	450	450	450	450

Sizes are in mm.

*Equivalent to axles of 70 and 80 with ZF spring locks 2 and 3 elements.

Recommended box according to height

		Aluminium box			Alex			
		300	360	400	350	400	400x450	450
Axle spring drill flat slat 507537	Axle 130	2,750	4,370	5,030	-	-	-	-
	220	-	3,080	4,080	2,510	4,080	4,080	6,000
Arrow spring lock for pulley 507441	240	-	-	3,230	1,850	3,230	3,230	5,030
	280	-	-	2,800	-	2,800	2,800	4,510

Sizes are in mm.

Additional thermal resistance

According to EN 13125.

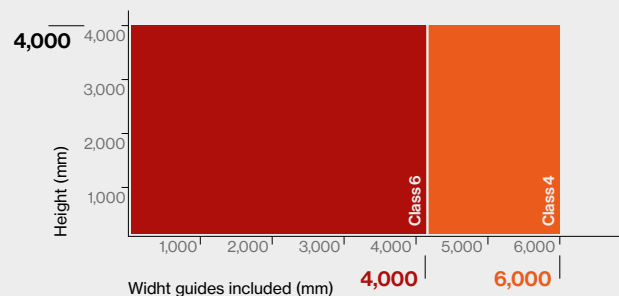
ΔR Class 4 = 0.14 m² K/W

*Except perforated formats and micro-perforated:

ΔR Class 4 = 0.08 m² K/W

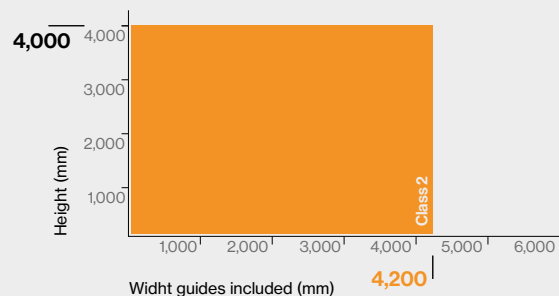
Wind resistance

EN 13659 (Wind resistance for rolling shutters).



Wind resistance

EN 13241 (Wind resistance for rolling doors).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

EN 13241

Minimum required (CE)

Class 1: ≥ 415 Pa ≈ 94 km/h

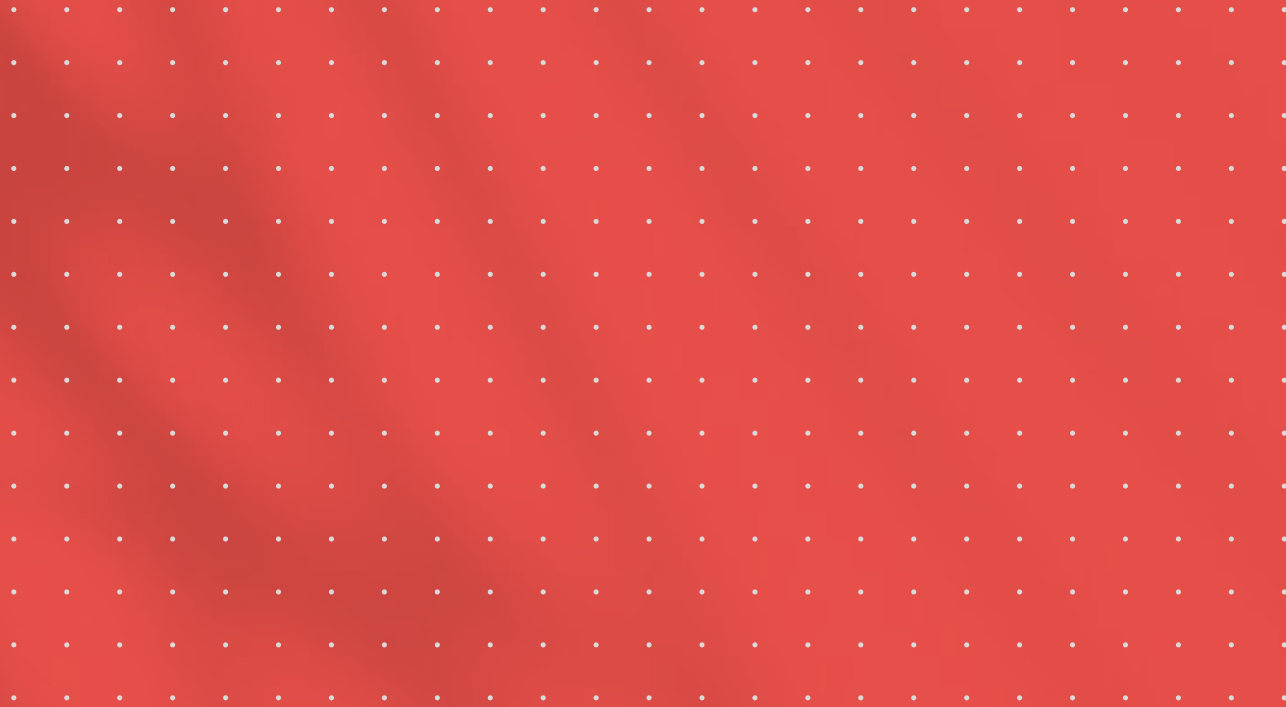
Class 2: ≥ 620 Pa ≈ 115 km/h

Class 3: ≥ 965 Pa ≈ 143 km/h

Class 4: ≥ 1.375 Pa ≈ 171 km/h

Class 5: c.d. x 1.25 ≈ 171 km/h

03



PVC slats

Our PVC model design is studied to meet current requirements. With this selection of profiles, we offer the possibility of solving any type of facility where a “roll-up blind” is needed, both technically and aesthetically.

Their articulation and operation makes it easy to adjust solar light entry at will, completely eliminating it, in addition to keeping control over aeration.

Content

- 04.1 • Mini-39
- 04.2 • Mini-40 Special
- 04.3 • Mini-47
- 04.4 • R-50
- 04.5 • P-50
- 04.6 • P-55
- 04.7 • P-60

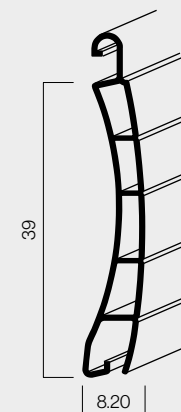
Mini-39

014007 Mini-39



Technical characteristics

Area of covering	39 mm
Number slats by meter	25.64 units
Maximum recommended	1,600 mm
Slat weight	2.82 kg/m²
Packaging unit standard	50 slats
Stock lengths	6 ml
Minimum rolling diameter	42 mm



End slats compatibility

A - Interior • B - Blind • N • C - Exterior • D - 2 Sides
Intermediate

Fire reaction

EN 13501-1
Class B-s3, d0

Aluminium guide channels compatibility

UP-3.5/22 • UP-40/22 • UP-45/22 • ZF-8 • H-25-FC
HR-C-25 • H-25 • HC-25 • HD-25 • HSL • HSL-A
HSL-E • E • S • H-66 • Ref. 1229 • 16.80x28.40
17.20x28.40 • V-25 Ref. 9178 • V-25 Ref. 9182 • V-45

PVC aluminium guide channels

60x30 • 60x40 • 55x45 • 60x45 • 60x70 • 60x75.5
Central 70x30 • Central 60x45 • 60x30 R

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Mixed spring lock arrow axle 027162	Axle 42	110	115	120	125	130	140	145	150	155	160	165	170	175	180
	Axle 60	120	125	130	135	140	145	150	155	160	165	170	175	180	185
Spring Lock 1 elements 036003	Axle 54	115	120	125	130	135	140	145	150	155	160	165	170	175	180
	Axle 60	120	125	130	135	140	145	150	155	160	165	170	175	180	185
Spring Lock 2 elements 036004	Axle 54	115	120	125	130	135	140	145	150	155	160	167	170	175	180
	Axle 60	120	125	130	135	140	145	150	155	160	165	170	175	180	185

Sizes are in mm.

Recommended box according to height

		Euroblock / Eurodecor					Aluminium box				Winblock	
		155	170	185	200	225	137	165	180	205	200	230
Mixed spring lock arrow axle 027162	Axle 60	1,755	2,350	3,000	3,725	5,100	1,670	2,860	3,500	4,800	3,840	5,500

Sizes are in mm.

Additional thermal resistance

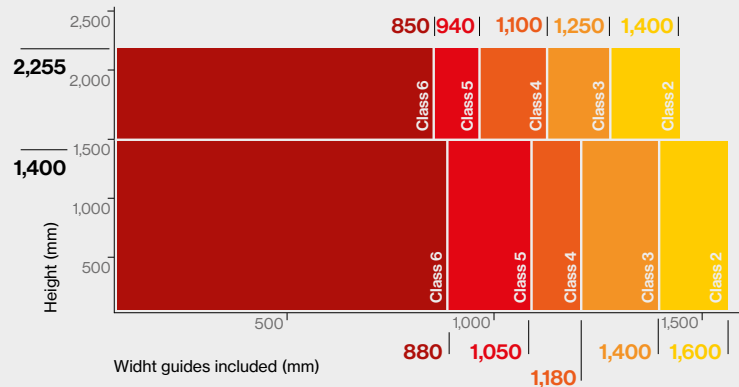
According to EN 13125.

ΔR Class 4 = 0.19 m² K/W

ΔR Class 5 = 0.23 m² K/W

Wind resistance

EN 13659 (Wind resistance for rolling shutters).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

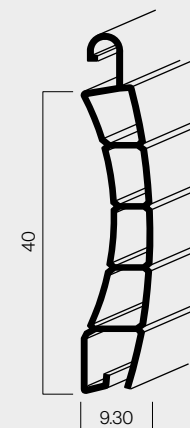
Mini-40 Special

014014 Mini-40 Special



Technical characteristics

Area of covering	40 mm
Number slats by meter	25 units
Maximum recommended	1,850 mm
Slat weight	3 kg/m²
Packaging unit standard	50 slats
Stock lengths	6 ml
Minimum rolling diameter	42 mm



End slats compatibility

A - Interior • B - Blind • N • C - Exterior • D - 2 Sides
Intermediate • AC

Fire reaction

EN 13501-1
Class B-s3, d0

Aluminium guide channels compatibility

UP-3.5/22 • UP-40/22 • UP-45/22 • ZF-8 • H-25-FC
HR-C-25 • H-25 • HC-25 • HD-25 • HSL • HSL-A
HSL-E • E • S • H-66 • Ref. 1229 • 16.80x28.40
17.20x28.40 • V-25 Ref. 9178 • V-25 Ref. 9182 • V-45

PVC aluminium guide channels

60x30 • 60x40 • 55x45 • 60x45 • 60x70 • 60x75.5
Central 70x30 • Central 60x45 • 60x30 R

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Mixed spring G lock arrow axle 027461	Axle 42	115	120	130	140	150	155	160	170	175	180	185	190	200	210
	Axle 60	120	130	140	150	155	160	170	175	180	190	195	200	205	210
Spring Lock 1 elements 036003	Axle 54	120	130	140	145	150	160	165	170	175	180	190	195	200	210
	Axle 60	125	130	140	150	160	165	170	180	185	190	195	200	210	215
Spring Lock 2 elements 036004	Axle 54	120	130	140	150	155	165	170	175	180	185	190	200	205	210
	Axle 60	120	135	140	150	160	165	170	175	180	190	195	200	205	210

Sizes are in mm.

Recommended box according to height

		Euroblock / Eurodecor					Aluminium box				Winblock	
		155	170	185	200	225	137	165	180	205	200	230
Mixed spring G lock arrow axle 027461	Axle 42	1,520	1,960	2,360	2,800	3,855	-	-	-	-	-	-
	Axle 60	1,400	1,760	2,200	2,620	3,700	1,320	2,120	2,310	3,300	2,660	3,850

Sizes are in mm.

Additional thermal resistance

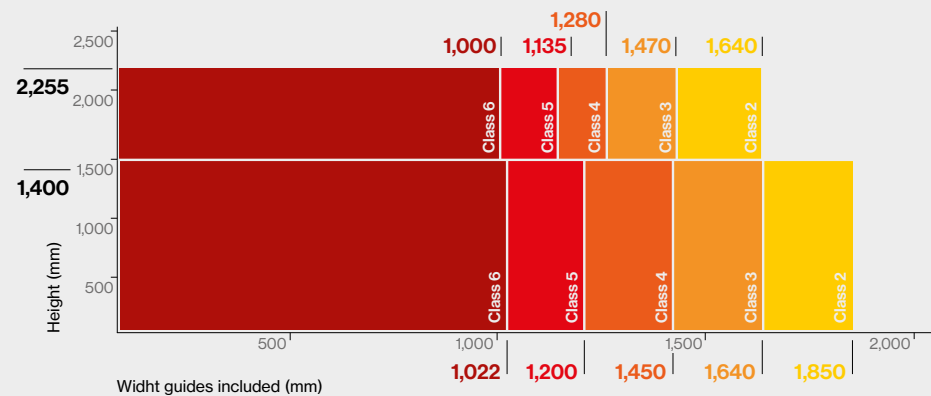
According to EN 13125.

ΔR Class 4 = 0.21 m² K/W

ΔR Class 5 = 0.25 m² K/W

Wind resistance

EN 13659 (Wind resistance for rolling shutters).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

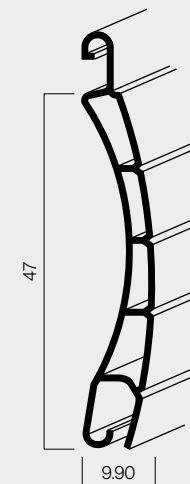
Mini-47

014004 Mini-47



Technical characteristics

Area of covering	47 mm
Number slats by meter	21.30 units
Maximum recommended	1,750 mm
Slat weight	3.24 kg/m²
Packaging unit standard	32 slats
Stock lengths	6 ml
Minimum rolling diameter	42 mm



End slats compatibility

A - Interior • B - Blind • N • C - Exterior • D - 2 Sides
Intermediate • AC

Fire reaction

EN 13501-1
Class B-s3, d0

Aluminium guide channels compatibility

UP-3.5/22 • UP-40/22 • UP-45/22 • ZF-8 • H-25-FC
HR-C-25 • H-25 • HC-25 • HD-25 • HSL • HSL-A
HSL-E • E • S • H-66 • Ref. 1229 • 16.80x28.40
17.20x28.40 • V-25 Ref. 9178 • V-25 Ref. 9182 • V-45

PVC aluminium guide channels

60x30 • 60x40 • 55x45 • 60x45 • 60x70 • 60x75.5
Central 60x45 • Central 70x30 • 60x30 R

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Mixed spring G lock arrow axle 027461	Axle 42	125	130	135	140	145	155	160	165	170	180	185	190	195	200
	Axle 60	130	135	140	145	150	160	165	170	175	180	185	190	200	205
Spring Lock 1 elements 036003	Axle 54	125	130	135	140	150	155	160	165	170	175	180	185	190	195
	Axle 60	125	130	135	140	150	155	160	165	170	175	180	185	190	195
Spring Lock 2 elements 036004	Axle 54	125	130	140	145	150	155	160	165	170	175	180	185	190	195
	Axle 60	125	135	140	145	150	155	160	165	170	175	180	185	190	200

Sizes are in mm.

Recommended box according to height

		Euroblock / Eurodecor					Aluminium box				Winblock	
		155	170	185	200	225	137	165	180	205	200	230
Mixed spring G lock arrow axle 027461	Axle 60	1,580	2,065	2,525	2,950	3,717	1,330	2,240	2,645	4,080	3,000	4,500

Sizes are in mm.

Additional thermal resistance

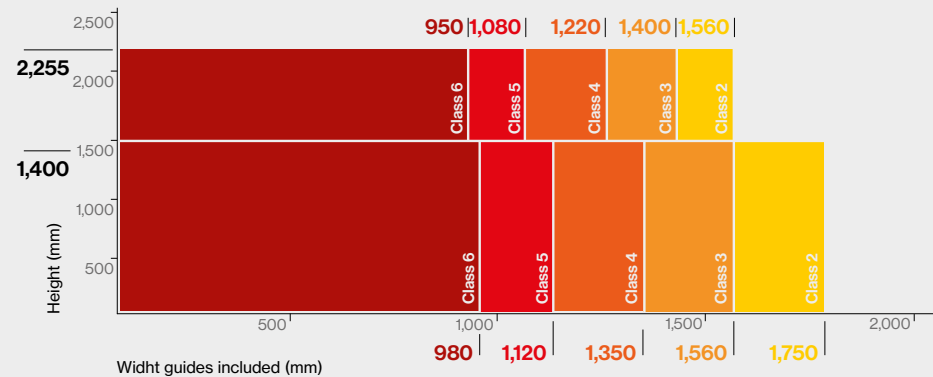
According to EN 13125.

ΔR Class 4 = 0.19 m² K/W

ΔR Class 5 = 0.23 m² K/W

Wind resistance

EN 13659 (Wind resistance for rolling shutters).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

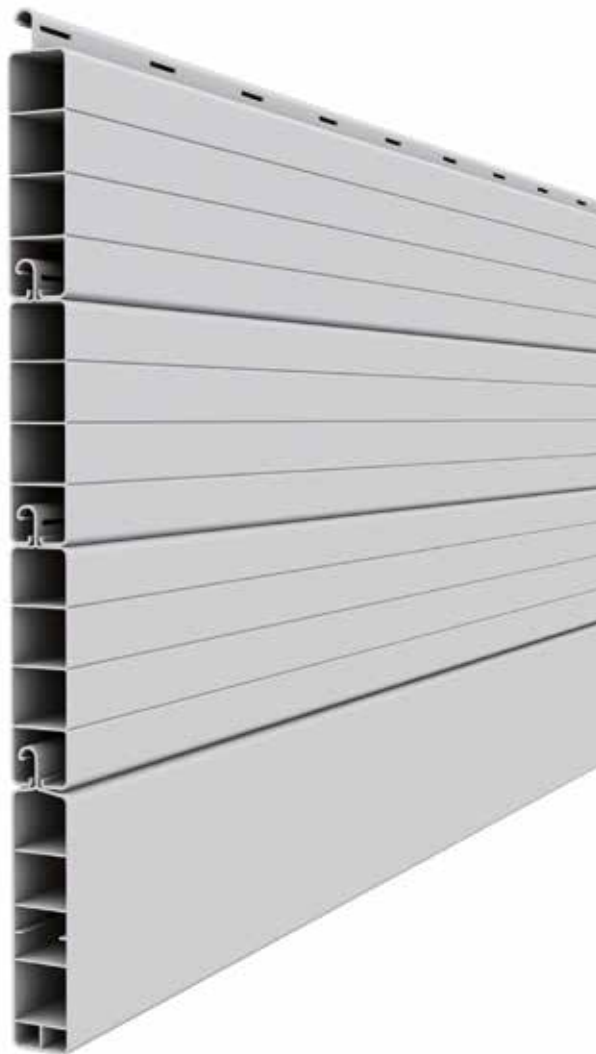
Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

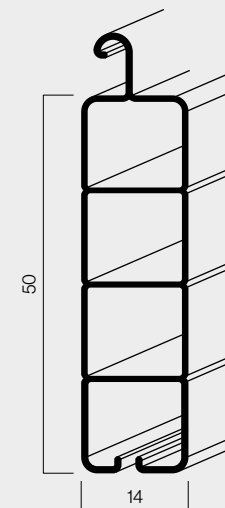
R-50

014031R-50



Technical characteristics

Area of covering	50 mm
Number slats by meter	20 units
Maximum recommended	2,920 mm
Slat weight	3.60 kg/m²
Packaging unit standard	20 slats
Stock lengths	6 ml
Minimum rolling diameter	60 mm



End slats compatibility

H • Reinforced PVC

Aluminium guide channels compatibility

UP-40/25 • UP-50/25 • ZF-14 • 19.15x28.40 • UPS-6.5
UPS-7.5 • UPS-9.5

Fire reaction

EN 13501-1

Class B-s3, d0

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Mixed spring G lock arrow axle 027461	Axle 60	180	190	210	220	230	240	250	260	270	280	285	295	300	310
	Axle 54	180	190	200	210	220	230	240	250	260	270	280	285	290	300
Spring Lock 1 elements 036003	Axle 60	180	190	200	210	220	230	240	250	260	270	280	285	290	300
	Axle 54	180	190	200	210	220	230	240	250	260	270	280	290	300	310
Spring Lock 2 elements 036004	Axle 54	180	190	200	210	220	230	240	250	260	270	280	290	300	310
	Axle 60	180	190	200	220	230	240	250	265	270	280	285	290	305	315

Sizes are in mm.

Additional thermal resistance

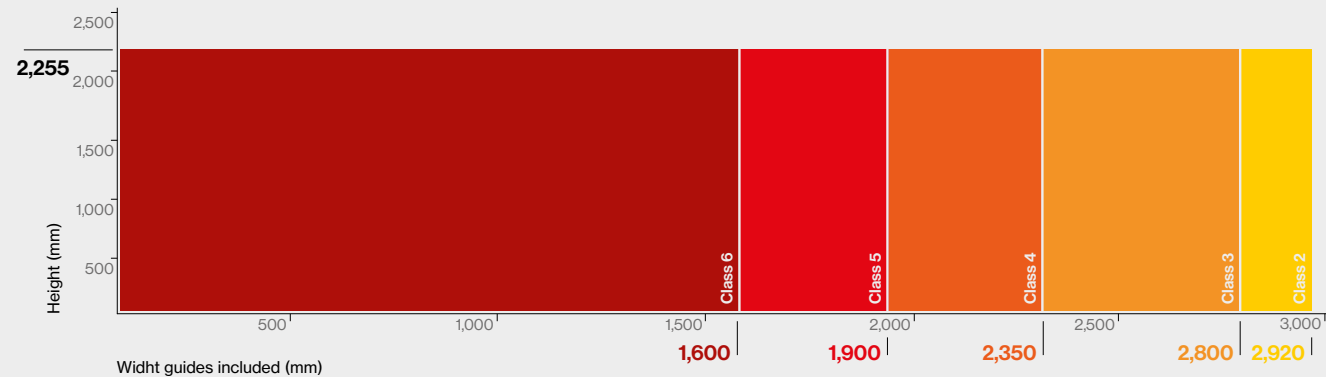
According to EN 13125.

ΔR Class 4 = 0.26 m² K/W

ΔR Class 5 = 0.32 m² K/W

Wind resistance

EN 13659 (Wind resistance for rolling shutters).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

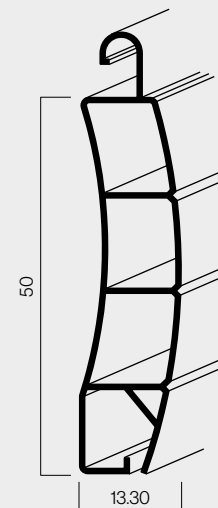
P-50

014017 P-50



Technical characteristics

Area of covering	50 mm
Number slats by meter	20 units
Maximum recommended	2,650 mm
Slat weight	3.22 kg/m²
Packaging unit standard	20 slats
Stock lengths	6 ml
Minimum rolling diameter	60 mm



End slats compatibility

H • Reinforced PVC

Aluminium guide channels compatibility

UP-40/25 • UP-50/25 • ZF-14 • 19.15x28.40 • V-55
UPS-6.5 • UPS-7.5 • UPS-9.5

Fire reaction

EN 13501-1

Class B-s3, d0

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Mixed spring G lock arrow axle 027461	Axle 60	150	165	170	180	190	200	210	215	220	230	235	240	250	260
	Axle 54	150	160	170	180	190	195	205	210	220	230	235	240	250	255
Spring Lock 1 elements 036003	Axle 60	150	160	170	180	190	200	205	210	220	230	235	240	250	260
	Axle 54	150	155	165	175	185	195	205	215	220	225	230	240	245	250
Spring Lock 2 elements 036004	Axle 60	150	160	170	180	190	200	210	220	225	230	240	245	250	255

Sizes are in mm.

Additional thermal resistance

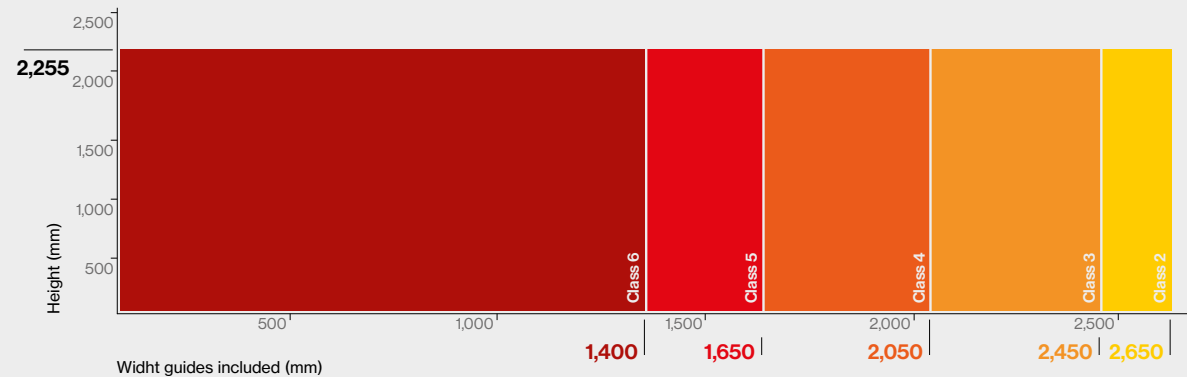
According to EN 13125.

ΔR Class 4 = 0.24 m² K/W

ΔR Class 5 = 0.29 m² K/W

Wind resistance

EN 13659 (Wind resistance for rolling shutters).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

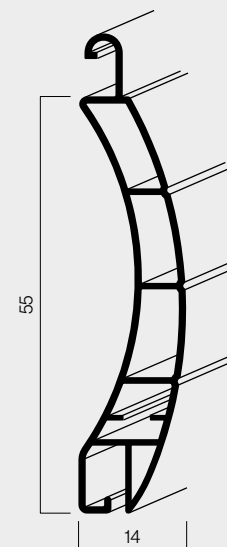
P-55

014005 P-55



Technical characteristics

Area of covering	55 mm
Number slats by meter	18.20 units
Maximum recommended	2,400 mm
Slat weight	3.46 kg/m²
Packaging unit standard	20 slats
Stock lengths	6 ml
Minimum rolling diameter	60 mm



End slats compatibility

H • Reinforced PVC

Aluminium guide channels compatibility

UP-40/25 • UP-50/25 • ZF-14 • 19.15x28.40 • V-55
UPS-6.5 • UPS-7.5 • UPS-9.5

Fire reaction

EN 13501-1

Class B-s3, d0

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Mixed spring G lock arrow axle 027461	Axle 60	140	150	160	170	180	185	190	200	210	215	220	230	240	245
	Axle 54	130	140	150	160	170	180	190	200	205	210	220	230	240	250
Spring Lock 1 elements 036003	Axle 60	135	140	150	160	175	180	190	200	210	220	225	230	240	250
	Axle 54	130	140	150	160	170	180	190	200	205	210	220	230	235	240
Spring Lock 2 elements 036004	Axle 60	135	150	160	165	170	185	190	200	210	220	230	235	240	250

Sizes are in mm.

Additional thermal resistance

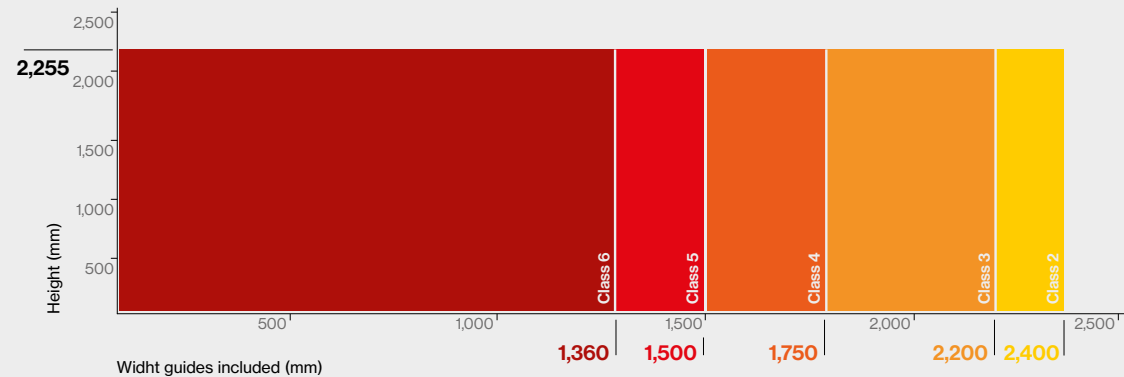
According to EN 13125.

ΔR Class 4 = 0.21 m² K/W

ΔR Class 5 = 0.25 m² K/W

Wind resistance

EN 13659 (Wind resistance for rolling shutters).



EN 13659

Minimum required (CE)

Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h

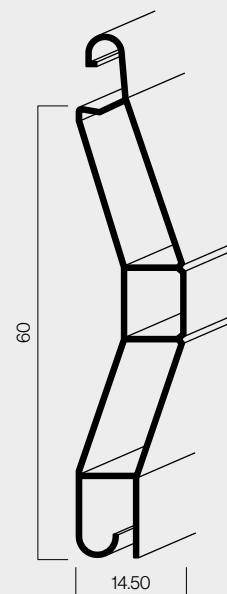
P-60

014006 P-60



Technical characteristics

Area of covering	60 mm
Number slats by meter	16.67 units
Maximum recommended	2,340 mm
Slat weight	3.17 kg/m²
Packaging unit standard	20 slats
Stock lengths	6 ml
Minimum rolling diameter	60 mm



End slats compatibility

H • Reinforced PVC

Aluminium guide channels compatibility

UP-40/25 • UP-50/25 • ZF-14 • 19.15x28.40 • V-55
UPS-6.5 • UPS-7.5 • UPS-9.5

Fire reaction

EN 13501-1

Class B-s3, d0

Rolling diameter chart

		Height													
		800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200	3,400
Mixed spring G lock arrow axle 027461	Axle 60	150	160	170	180	190	200	210	220	230	235	240	245	250	260
	Axle 54	150	160	170	180	190	195	200	210	220	225	230	240	245	250
Spring Lock 1 elements 036003	Axle 60	155	165	170	180	190	195	200	210	220	230	235	240	250	260
	Axle 54	150	160	170	180	190	200	205	210	215	220	230	240	245	250
Spring Lock 2 elements 036004	Axle 60	155	160	170	180	190	200	205	210	220	225	235	240	250	260

Sizes are in mm.

Additional thermal resistance

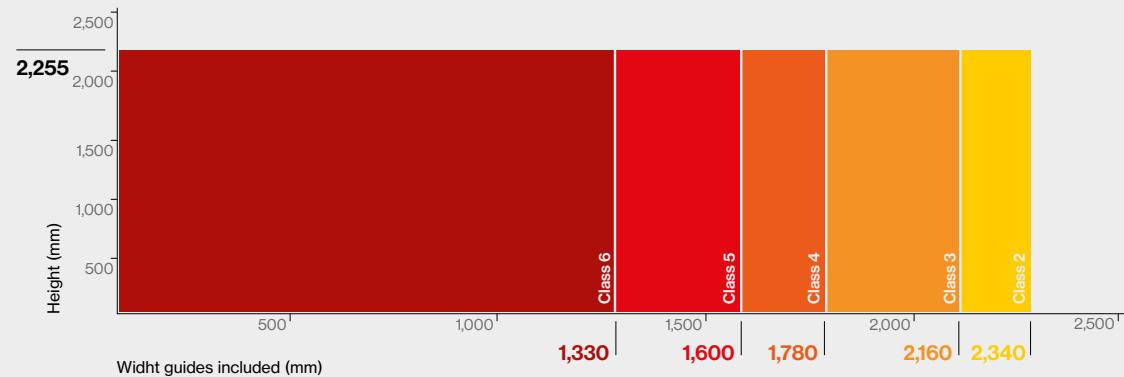
According to EN 13125.

ΔR Class 4 = 0.22 m² K/W

ΔR Class 5 = 0.27 m² K/W

Wind resistance

EN 13659 (Wind resistance for rolling shutters).



EN 13659

Minimum required (CE)

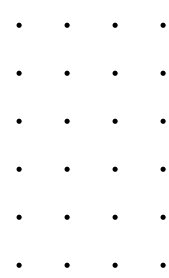
Class 2: 100 Pa ≈ 46 km/h

Class 3: 150 Pa ≈ 56 km/h

Class 4: 250 Pa ≈ 73 km/h

Class 5: 400 Pa ≈ 92 km/h

Class 6: 600 Pa ≈ 112 km/h









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Polígono Industrial El Castillo
C/ Roma, 4 • 03630
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