PANDASHADE

Premium Aluminum Louver Systems

The Architects' Choice

TECHNICAL INFORMATION

PANDA
WINDOWS & DOORS

PANDASHADE

PandaSHADE is a premium aluminum louver system that provides the perfect harmony of airflow, natural light, and privacy while your windows and doors are open.
PandaSHADE is a sleek aluminum louver system mounted outside windows and doors to provide ultimate control over your indoor space. Adjustable slats offer precise control of light and airflow, with the option to create absolute privacy when closed.
Fully automate PandaSHADE with wall switches and remotes, or operate manually via crank shaft. Shield your interior from damaging sun rays, slash energy bills by up to 30%, and reduce noise pollution without compromising on window or door size.

Applications and Uses

PandaSHADE systems are suitable for a wide range of applications, including homes, apartment buildings, schools, and offices, making them a popular design choice for both residential and commercial projects.

Features and Benefits

→ The head rail is made from cold-rolled galvanized steel, featuring a U-shaped design measuring 2.3 x 2 .2 x 0.03 inches, and hemmed edges for easy installation.

→ The bottom rail is made from a 3.13 x 0.51 inch extruded aluminum profile. It comes standard in a silver anodized finish, but can also be color matched upon request.

→ The bottom rail can be outfitted with an integrated locking mechanism for added protection against forced entry when closed.

→ Slats are made from a robust, high-elastic aluminum alloy, fortified with double-layered paint for crack, scratch, and shock resistance.

→ Guide rails are made of an extruded aluminum profile. Guide rails come standard in a silver anodized finish, but can also be color matched upon request.

→ Guide rails can be equipped with an optional black plastic dampener to reduce noise, providing a quieter and smoother operation.

→ Lifting, lowering, and tilting of the slats can be carried out manually using a hand crank or automatically using a 110V electric motor.

→ Seamlessly integrate PandaSHADE with your smart home for automated schedules and effortless control via wall switches, remotes, voice assistant, or smartphone.

→ Systems under 13 feet in height and less than 6 feet 5 inches wide can withstand high speed winds up to 37 mph.

→ Sizes can range from a minimum width of 1’ 6” to a maximum width of 16’ 4”. Maximum height is also an impressive 16’ 4”. Shade large areas, up to 215 ¼ square feet at a time.

→ Staggering sizes up to 19’ 3” wide can be manufactured using motorized systems only. However, please note the warranty will not be valid for sizes exceeding 16’ 4” wide.

→ All hardware comes with a 4-year warranty and motors come with a 5-year warranty.

Customizations

PandaSHADE systems are available in a variety of colors and can be fitted to any size and shape of application. Operation options include a manual crank with gearbox and 110V electric motor controlled by switch, automatic controls, remote control, or smart mobile devices.

COLOR OPTIONS

9003
White

7035
Light Grey

7038
Grey

DB 703
Dark Grey

905 M
Black (Matte)

Choose from numerous finish options to make your louver system your very own. If you would like to create or match custom colors beyond these standard options, our team is ready to assist you.

True colors may appear different from finish options shown. Color samples available upon request.

INSTALLATION OPTIONS

Louvers can be installed in a variety of ways, depending on your choice:

Under Mount

A plate hides the head rail and stacked slats, protecting both from adverse weather conditions. Color can match the blinds or facade.

Pocket Mount

A box containing the blinds is plastered onto, but is not visible on, the building facade. Side insulating panels can be optionally installed to hide guide rails.

Exterior Mount

Exterior mounting uses boxes built from Purenit 550MD, a polyurethane-based material made of recyclable PIR foam with wood-like properties and high thermal resistance. They can withstand compression loads of up to 7 $^{11}/_{16}$ US tons, can resist flames and melting, feature excellent insulation properties, and are environmentally friendly for the conscious consumer.

Boxes will come in the same color as the color selected for the slats. They have an upper limit of 65 $^{5}/_{8}$ ft.; in long or corner applications, boxes can be cut and joined.

BUILT-IN BOXES

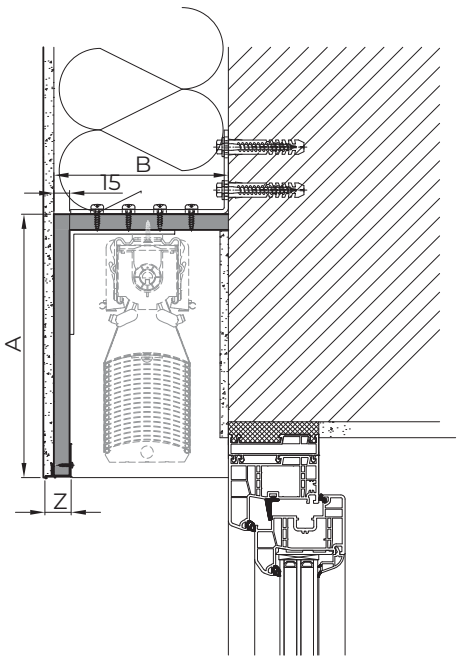
Built-In Boxes safely store external blinds when they are not in use. These boxes are built from Purenit 550MD, a polyurethane-based material made of recyclable PIR foam with wood-like properties and high thermal resistance. These boxes can withstand compression loads of up to 7 $^{11}/_{16}$ US tons, can resist flames and melting, feature excellent insulation properties, and are environmentally friendly for the conscious consumer.

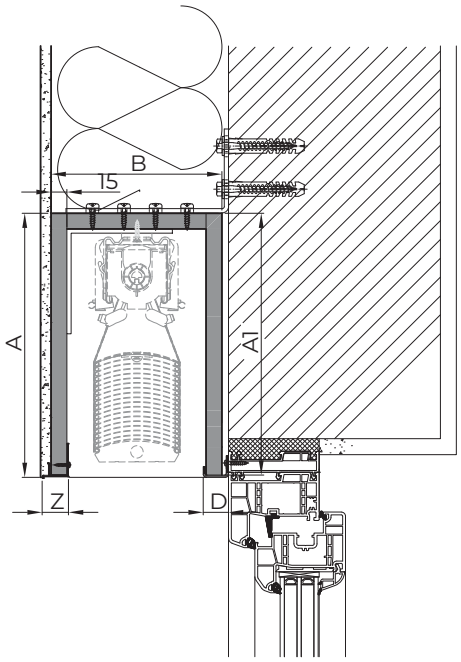
Built-In Boxes will come in the same color as the color selected for the slats. They have an upper limit of 65 $^{5}/_{8}$ ft.; in long or corner applications, boxes can be cut and joined.

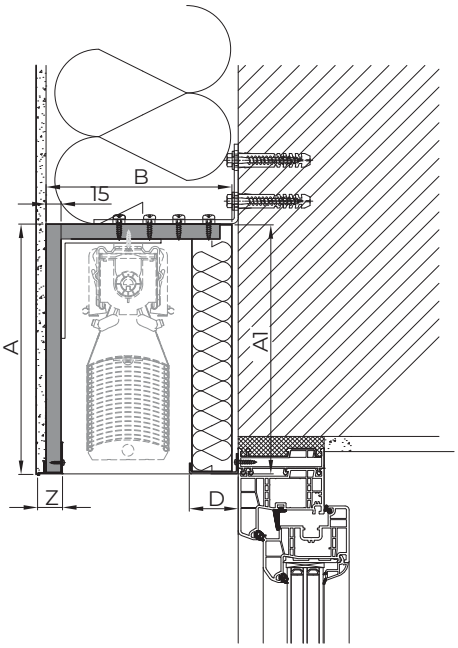
PSL
No dividing wall between box and surface

PSU
Mounting profile between box and surface

PSI
Wall of insulation between box and surface







A = Box front height
A1 = Back stack of box
B = Box depth
D = Mounting Profile
Z = Staff Profile

GUIDE RAILS

Different guide rails can be installed depending on the nearby surfaces of the blinds. Guide rails ensure smooth, consistent, and reliable operation of the blinds by physically guiding them up and down. These rails will be suspended with pins to ensure stability of the rails.

Embedded Guide Rails

This method of installing guide rails can be used if the facade surface is planned to be relatively smooth (e.g., plaster, wood cladding, smooth ceramic tiles). The guide rail is embedded in the façade and does not interfere with the design of the windows.

Partially Embedded Guide Rails

A 1 $^{9}/_{16}$" wide guide rail is used where the lining is made of rough surfaces, typically with stone cladding. This style of guide rail combines the natural look of the stone façade with the technical design of the external blinds in an aesthetically pleasing way. These rails minimize light bleed between the rail and the cladding.

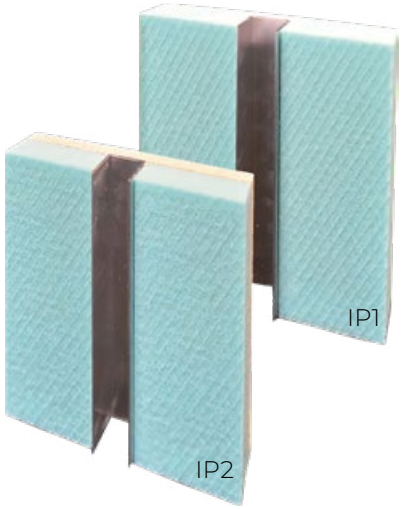
Non-Embedded Guide Rails

Non-embedded guide rails are anchored to the lining or to the window frame using aluminium brackets. It is a simple installation method that can be done even after completing the façade.

Insulation Panels

These panels both insulate and make the installation of the guide rails in the lining much easier. During installation, only the guide rail itself is inserted in the aluminum housing. This method of installation can be used wherever smooth plaster surfaces are planned.

The maximum length of a panel is 9 $^{7}/_{16}$". Choose between IP1 (1 $^{3}/_{16}$" Styrodur) and IP2 ($^{3}/_{8}$" Purenit + $^{6}/_{8}$" Styrodur).



SLAT SHAPES

The maximum width and height of blind slats is 16 $\frac{3}{8}$ ft. A maximum area of 215 $\frac{1}{4}$ ft^2 can be shaded at a time.

Z-90 Noval

Z-90 Noval slats are 3 $\frac{9}{16}$" wide and have a distinct Z shape. They are characterized by their perfectly interlocking slats, which block out every single ray of sunlight and neatly stack when not in use. The underside of the slats is fitted with a plastic seal for better, quieter closing.

C-80

C-80 slats have a medium width of 3 $\frac{1}{8}$" and, because they are curved to a C shape, it is possible to turn the blinds to both sides without any damage.

WIND RESISTANCE

Slat Shape | Slat Width

	< 78"	79 - 118"	119 - 157"	158 - 177"	178 - 188"	189 - 196"
Z-90 Noval	31-37 mph	24-30 mph	15-23 mph	12-18 mph	<12 mph	<12 mph
C-80	31-37 mph	24-30 mph	15-23 mph	15-23 mph	12-18 mph	<12 mph

Chart assumes slats are less than 13 feet tall.

REMOTE OPERATION

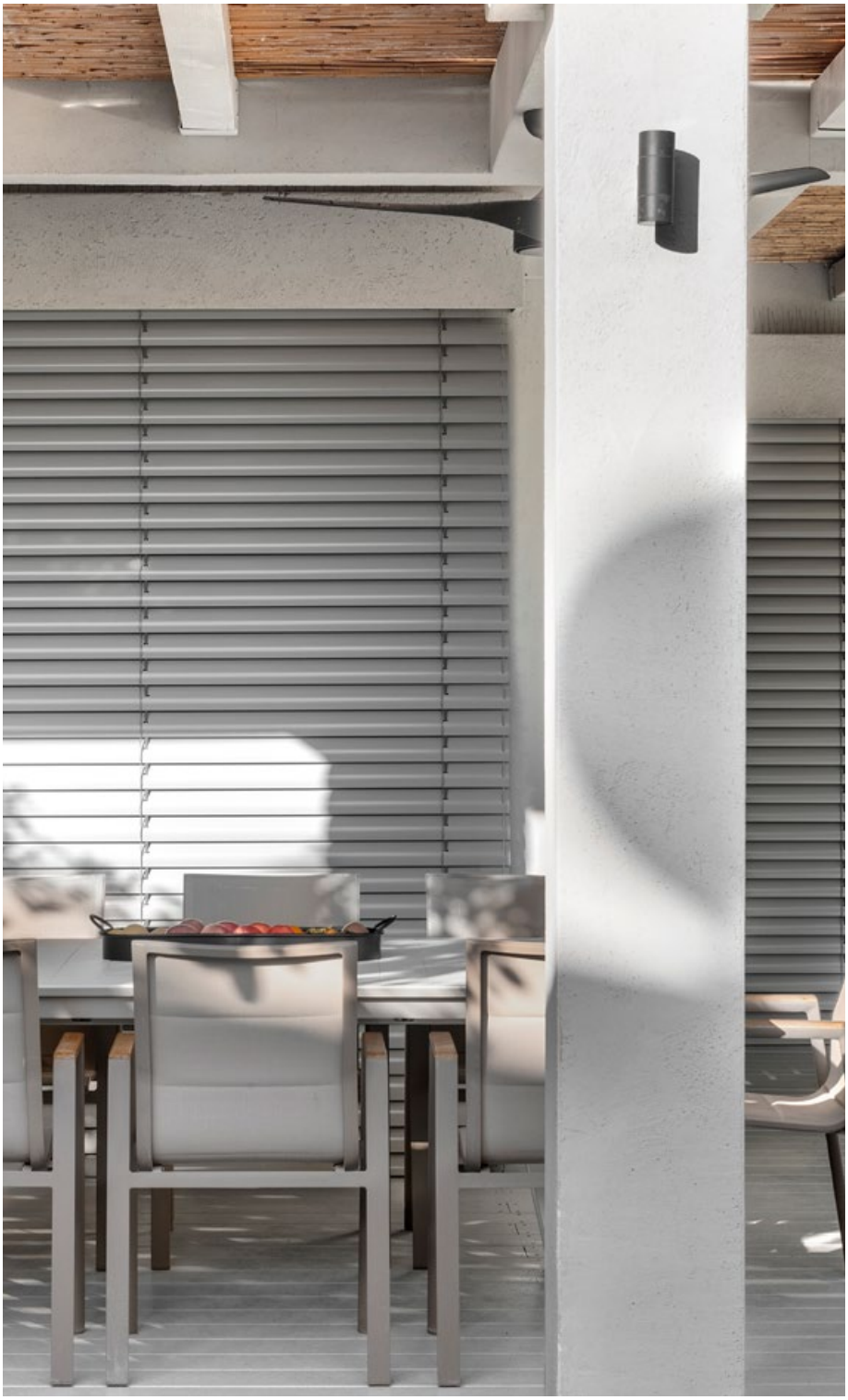
Though your blinds can be manually operated by a crank, wireless operation is an optional addition to your PandaSHADE system. A relay that can communicate with Wi-Fi, Bluetooth, and 2.4GHz systems and sits as an intermediary between your building's 110/120 A/C, the motor that will operate your blinds, and whatever system you choose to operate your PandaSHADE system with (smart home app, wall switch, etc.).

Features

→ Wi-Fi operation on your local network, without any additional hubs or hardware required

→ High compatibility with other home automation platforms such as Amazon Alexa, Google Home, Home Asistant, and Smart Things. Allows your blinds to interact as part of other home automations, or on its own!

→ Fully GDPR-compliant service that operates locally on your network without uploading to the internet



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THE ART OF LUXURY

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