

DOCUMENTATION COMMERCIAL 2025

BSO Z-LINE 90



Z-LINE

90

Z-LINE 90, THE UNIVERSAL BSO FOR ALL TYPES OF BUILDINGS



PERFORMANCE OPTIMIZED

The Z-Line 90 adjustable sunshade offers excellent sun protection and great robustness. It is distinguished by its wider slats (90mm), ideal for protecting veranda windows and large bay windows.

ROBUST AND DURABLE BLADES: With a thickness of 0.47 mm, including lacquering, the BSO Z-Line 90 blades offer exceptional strength, resisting strong winds, shocks and wear, for incomparable longevity.

Tight-closing blades reduce airflow between the apron and window, thus improving the thermal and acoustic insulation of your home.

MULTI-PURPOSE: The Z-Line 90 BSOs, due to their appearance and properties, work equally well in polluted urban environments as in the mountains. Their modern appearance and durable slats are suitable for

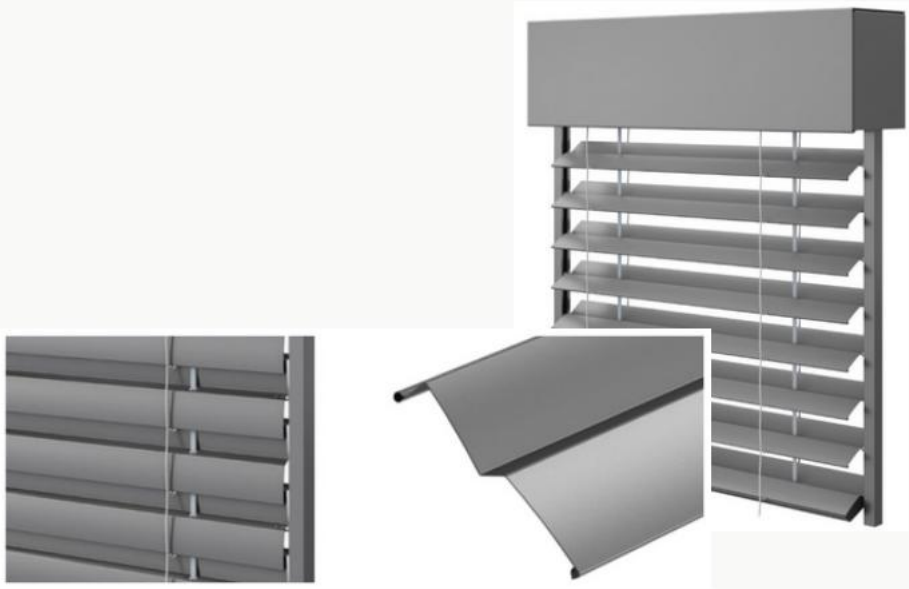
most buildings.

ANODIZED ALUMINUM METAL TIPS: Unlike competing models often equipped with plastic tips, our tips guarantee high resistance to breakage and increased durability.

Their eccentric shape allows for optimal wedging of the blades in the side guide rails, thus reducing wind noise when the apron is closed.

ARAMID FIBER REINFORCED CARRIER RIBS: These 8 mm wide ribbons exceed market standards (usually 6 mm) and ensure good blade closure for many years.

BEST-SELLING BLINDS : The BSO Z-Line 90 boasts the title of best-selling blind in our range. Its quality is attested to by numerous satisfied customers worldwide.



Documentation available on www.marchal.fr

BASIC TECHNICAL PARAMETERS

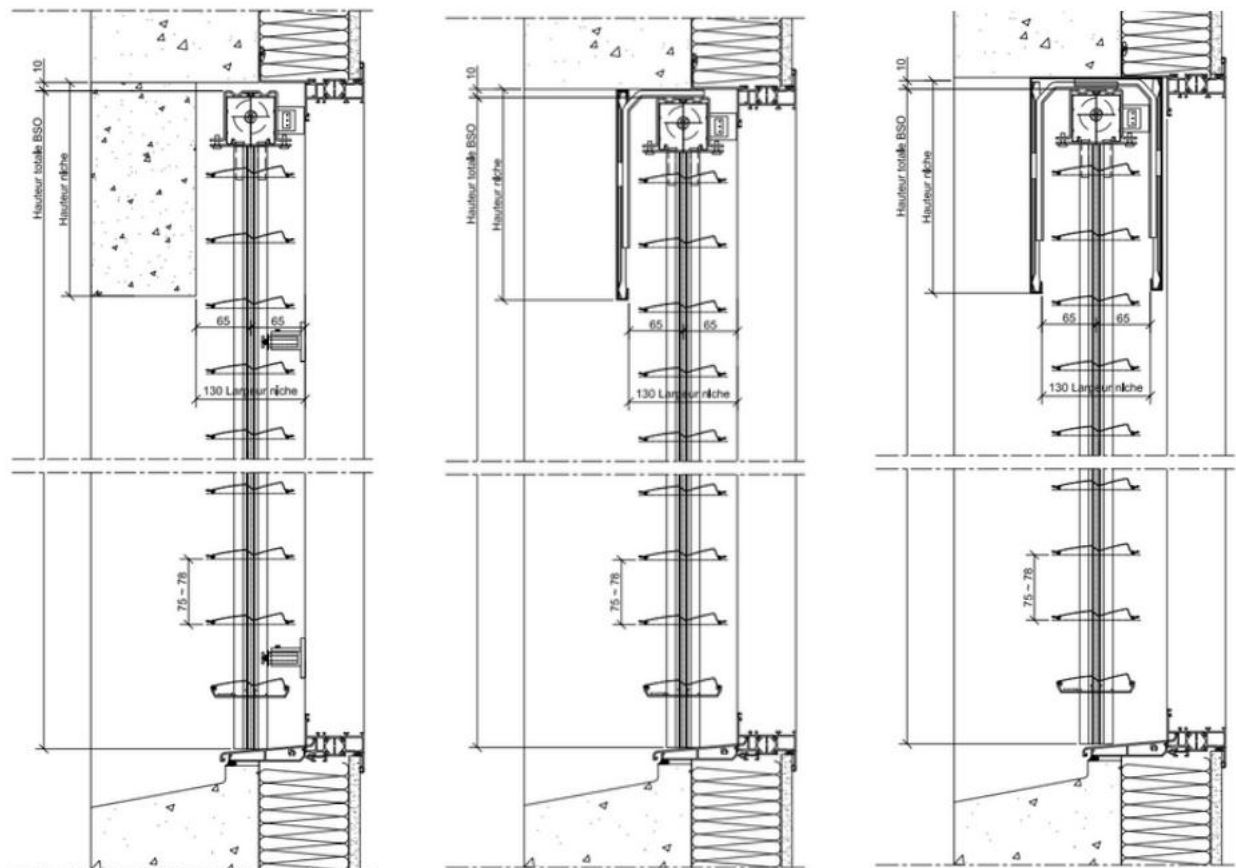
Order mode	Engine	Crank
Width	600 - 5000 mm	400 - 5000 mm
Height	500 - 4500 mm	500 - 5000 mm
Maximum surface area	12 m2	9 m2

Wind resistance: CSTB wind advice 2m x 2m = 103 km/h



- 23 standard colors to blend perfectly with any facade. 16 non-standard colors for a touch of originality.
- Over 200 custom colors to meet all your specific needs.

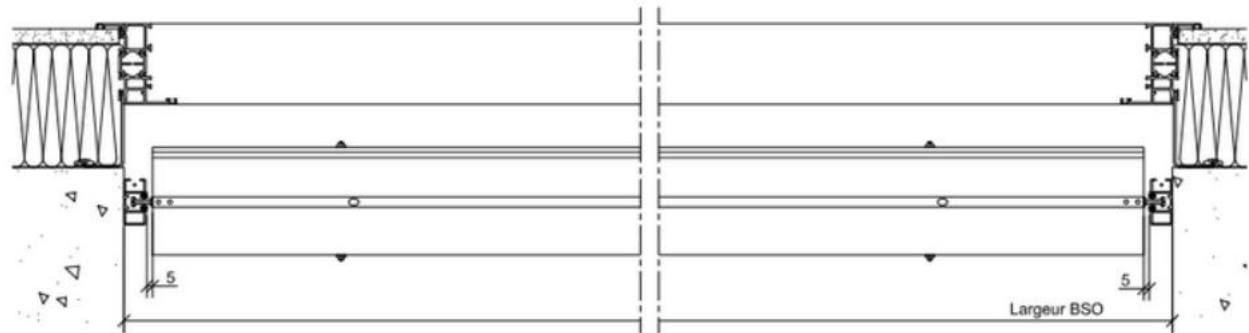
Z-LINE 90 ELECTRIC PLANS



Z-Line 90 Vertical Section
Self-supporting slide
Face pose
Masonry niche

Z-Line 90 Vertical Section
Self-supporting slide
Face pose
Valance type 1

Z-Line 90 Vertical Section
Self-supporting slide
Valance type 9



Z-Line 90 horizontal section
Self-supporting slide
Valance type 9

ADJUSTABLE SHIFTERS FOR FRONT INSTALLATION

Small shifter 50
mm 70
mm



Large shifter
70 mm
100 mm



MIN. AND MAX. DIMENSIONS

Minimum back width.

Winch control = 400 mm Electric
control = 560 mm

Max. slide back width.

All types of order = 5000 mm guaranteed

Height under package

Minimum = 400 mm
Maximum guaranteed = 5000 mm

Maximum individual blind surface

Winch control = 10 m²
Electrical control = 12 m²

Maximum surface area of coupled blinds

Winch control = 10 m²
Electrical control = 15 m²

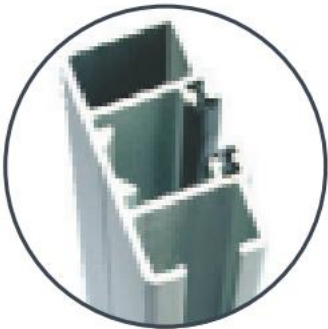
Study to be further developed depending on the
types of implementation (buildings)

LINTEL DIMENSIONS

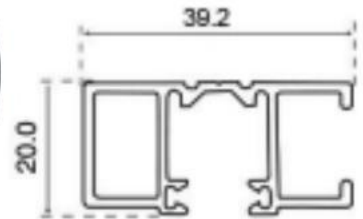
Hauteur lumière (hl)	Hauteur paquet (hp)
1010 - 1250	190
1260 - 1500	200
1510 - 1750	220
1760 - 2000	230
2010 - 2250	250
2260 - 2500	260
2510 - 2750	280
2760 - 3000	290
3010 - 3500	310
3260 - 3500	320
3510 - 3750	340
3760 - 4000	350

Côtes en mm
Hauteurs de paquet plus petites sur
demande
Les hauteurs de paquet sont des données
approximatives pouvant varier
d'un seuil à l'autre pour des raisons
techniques.

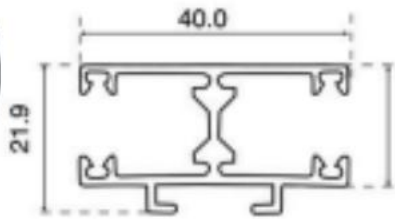
BEHIND THE SCENES



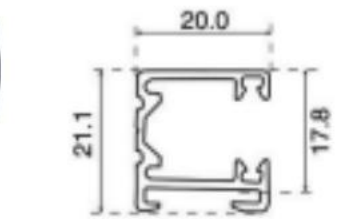
AP
Self-supporting slide



DPF
Double face-mounted slide



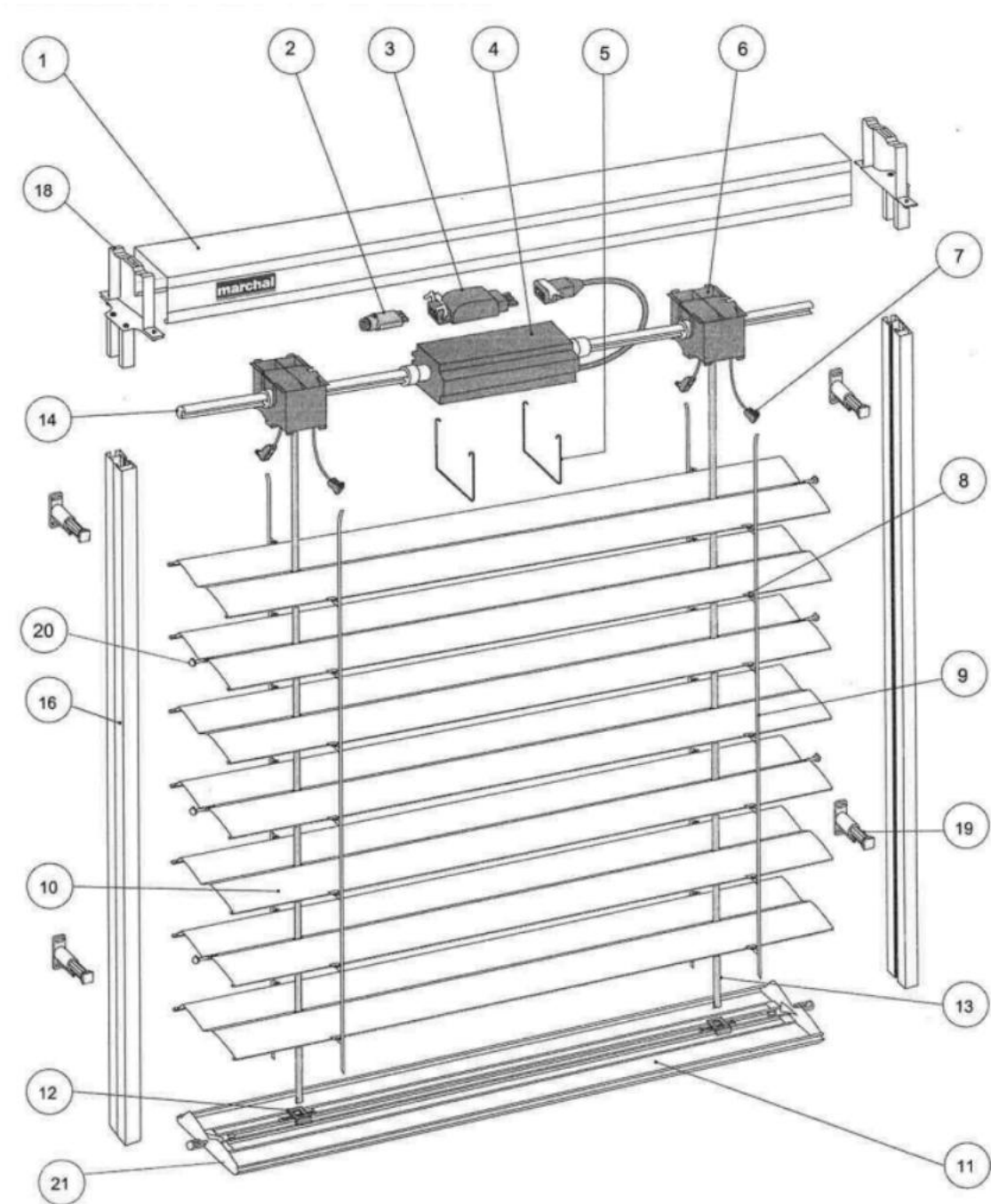
SFP
Single slide, face-mounted and table-mounted



BSO Z-LINE 90



Z-LINE 90 EXTERIOR BLINDS



Number	Designation
1	58x56 mm box
2	Hirshman Stak3 sheet
3	Receiver
4	engine kit
5	engine clip
6	SR/90 11 mm rocker arm
7	ball joint
8	blade clip
9	loop cord
10	strip for bso blade
11	final blade
12	ribbon attachment
13	black or gray texband ribbon
14	drop axle
16	self-supporting slide
18	self-supporting stirrup
19	shifter
20	aluminum blade tenon for repair
21	final blade tip



BSO Z-LINE 90 COLORS

MARCHAL COLOR PALETTES

The Adjustable Sunshade is not only a very effective sun protection effective, but also a design element playing an important role in the architecture of your home. Marchal therefore offers you a advanced customization of your BSO with 23 standard colors, 15 colors non-standard and is also able to create colors for you custom made.

STANDARD COLORS

<div>LIGHT IVORY</div> <div>RAL 1015</div> <div></div>	<div>MOSS GREEN</div> <div>RAL 6005</div> <div></div>	<div>GREY BEIGE</div> <div>RAL 7006</div> <div></div>	<div>SLATE GREY</div> <div>RAL 7015</div> <div></div>	<div>ANTHRACITE GREY</div> <div>RAL 7016</div> <div></div>	<div>BROWN 2650</div> <div>SAND</div> <div></div>	<div>PURE WHITE</div> <div>RAL 9010</div> <div></div>
<div>GREY BLACK</div> <div>RAL 7021</div> <div></div>	<div>LIGHT GREY SHADOW GREY</div> <div>RAL 7022</div> <div></div>	<div></div> <div>RAL 7035</div> <div></div>	<div>AGATE GREY</div> <div>RAL 7038</div> <div></div>	<div>GREY QUARTZ</div> <div>RAL 7039</div> <div></div>	<div>BLACK 2100</div> <div>SAND</div> <div></div>	<div>WHITE</div> <div>RAL 9016</div> <div></div>
<div>GREY WINDOW</div> <div>RAL 7040</div> <div></div>	<div>SEPIA BROWN</div> <div>RAL 8014</div> <div></div>	<div>BROWN GREY</div> <div>RAL 8019</div> <div></div>	<div>DARK BLACK</div> <div>RAL 9005</div> <div></div>	<div>WHITE ALUMINUM</div> <div>RAL 9006</div> <div></div>	<div>GREY ALUMINUM</div> <div>RAL 9007</div> <div></div>	

NON-STANDARD COLORS

<div>MARCHAL COLORS</div> <div>LIGHT OAK</div> <div></div>	<div>MARCHAL COLORS</div> <div>GOLDEN OAK</div> <div></div>	<div>MARCHAL COLORS</div> <div></div> <div></div>	<div>COLORISMARCHAL</div> <div>TEAK</div> <div></div>
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RAL COLORS



NCS COLORS





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