1 - INTRODUCTION

Dear User.

We at LUPAK METAL thank you for choosing us. LUPAK METAL has always been a guarantee of quality, service, and support. The careful choice of materials and sophisticated technologies have enabled us to meet the demand for the

Please read this manual thoroughly and do not hesitate to contact us for further information or should any issues arise.

2 - INTENDED USE

highest product performance.

Our Venetian blind systems are used to shield spaces from sunlight and can be installed outside windows, glazing and continuous facades. These models allow you to stack as well as rotate the slats on their axis. The blinds can be drawn up and down and stopped at any height, from completely extended to a position where the slat stack is fully contained in the box. The position of the slats is adjustable both horizontally(open) and vertically (closed). This makes it possible to control the amount of sunlight entering a room or how much to filter out. The systems can be either manual or motor-driven; the model featuring a receiver can be both remote controlled or integrated with any type of smart home system. The Venetian blind systems are not designed as safety elements or fall-proof barriers. If needed. the space must be equipped with a suitable system to prevent falling. The exclusive purpose of the Venetian blinds is to keep out sunlight. Any different or unintended use is considered incorrect and shall therefore void any and all guarantees and responsibilities of LUPAK METAL. The blinds are not designed for continuous open/close operation. Prolonged operation can cause the motor to overheat and consequently trip the built-in thermal

3 - RESPONSIBILITY

If the instructions contained in this manual and in the documents enclosed with the product are not followed and/or in the event of improper use of the product, the manufacturer declines all responsibility for any damage to the product, things and/or injuries to people and all warranties linked to the product shall be void.



ATTENTION

THE COMPANY IS NOT RESPONSIBLE FOR:

- Improper and unintended use of the product. • Installation carried out without following the instructions
- contained in this manual and in the enclosed documentation
- Installation and repairs carried out by unauthorised personnel.
- Tampering with the Venetian blind system components.
- Use of unauthorised spare parts and accessories.
- Inadequate maintenance of the Venetian blind systems.
- LUPAK METAL is not liable for any damage incurred.
- · Use of products not suitable for cleaning and maintenance.

4 - USER SAFETY WARNINGS

- During operation, do not touch moving parts and avoid any contact with clothing or any part of the body.
- Do not place fingers or other inside the hook track.
- · Keep the area around the blinds clear from any clutter to avoid damaging them.
- The systems can be automated or manual; do not manually force the slat stack as this could damage it.
- · Keep all remote control devices out of reach of children.
- In the event of strong wind (greater than the certified resistance class) or critical weather conditions, promptly draw the Venetian blinds up completely.
- For blinds equipped with weather sensors, periodically check that they are working correctly.
- In winter, before use, ensure that there is no ice buildup on the blinds; if there is ice, do not use them.
- Before operating the Venetian blinds, ensure that there is no visible damage, in which case avoid use and contact authorised personnel immediately.
- All assembly, disassembly, maintenance and repair operations must be carried out exclusively by LUPAK METAL authorised personnel.
- Operation is permitted only to people who are familiar with the instructions.
- Unplug the products from electrical power when carrying out maintenance.
- The Venetian blind systems consist of moving mechanical parts, therefore their use near water and/or in corrosive environments requires frequent cleaning and maintenance.

5 - REFERENCE STANDARDS

The products are compliant with the safety requirements according to the following standards:

- REGULATION 305/2011
- **Construction Products Regulation**
- DIRECTIVE 2006/42/EC
- Machinery Directive
- DIRECTIVE 2004/108/EC **Electromagnetic Compatibility Directive**
- · UNI FN 13659:2009

Shutters and External Venetian Blinds -Performance requirements including safety

- · UNI EN 1932:2013 **External Blinds and Shutters**
- Wind resistance
- Testing method and performance criteria

6 - CE MARKING INFORMATION

The Venetian blinds comply with the aforementioned regulations. The CE marking applies to the product comprising all and only the elements supplied.

THE INSTALLED PRODUCTS ONLY MEET THE AFOREMENTIONED REQUIREMENTS IF:

- During installation, the instructions provided
- in this manual and in the instructions for all additional components (e.g. screws, anchors, etc.) are followed.
- The product has been installed using the indicated fixing elements.



7 - CARE AND MAINTENANCE

To ensure the good operation of the Venetian blinds, it is necessary to follow the procedures below:

- Keep the area around the guides clean, avoiding any buildup of material in the Venetian blinds sliding area.
- When cleaning the slats and visible guide surfaces, use only neutral and non-abrasive products.
- Do not use solvents or products containing alcohol. Clean with a soft cloth.
- · Do not press too hard on the slats, otherwise they could be
- Take every precaution to avoid accidental operation during cleaning
- · Periodically check for signs of wear
- Operate the products weekly and increase the frequency in seaside areas.
- DO NOT USE SPRAY ON GREASE.

7A - MAINTENANCE SCHEDULE

MAINTENANCE SCHEDULE / INCREASE THE FREQUENCY IN SEASIDE AREAS		
Check condition of tilters	EVERY 5 YEARS	
Check condition of parts	YEARLY	
Check condition of motor	YEARLY	
Clean sliding guides	YEARLY	
Check guiding cable tension	YEARLY	
Clean the inner chain (YELLOW) with silicone spray oil (we recommend WD- 40) and lubricate using PTFE spray-on oil Increase the frequency in seaside areas	EVERY 6 MONTHS	
Clean slats (increase the frequency in seaside or high-pollution areas)	QUARTERLY	



	MAINTENANCE LOG				
Date	Work done	P/S*	Replacements	Date	Code

We recommend recording all work done for the correct maintenance of the

(*) P = planned S = special

8 - WARRANTY CONDITIONS

The LUPAK METAL Venetian blinds described comply with the current regulations listed above and are guaranteed for 24 months from the date shown on the transport document. The guarantee shall be valid only if the customer has settled all payments and if use and installation have been carried out according to the directions provided in the instructions and usage and maintenance manuals enclosed with the product. During the warranty period, LUPAK METAL shall replace or repair all parts that are defective at the origin. The warranty does not cover those parts that cannot be traced back to manufacturing defects (carelessness or negligence during use, installation or maintenance that do not comply with the instructions set forth in the manuals) or work carried out by unauthorised personnel or caused during transport. The guarantee is also void if the instructions provided by LUPAK METAL in the manual or enclosed with supplied parts are not followed. LUPAK METAL declines all responsibility for any direct or indirect damage or injury caused by the failure to follow the instructions or by replacing any supplied parts with unauthorised materials. The warranty conditions shall be understood to be tacitly accepted upon receipt of the invoice. Application of the warranty shall be determined at the discretion of authorised technicians.

9 - WIND LOAD RESISTANCE

MODEL	DIMEN- SIONS	BEAUFORT CLASS	WIND SPEED
LUME	9 sqm	> 11 *	about 115 km/h
LUME S	9 sqm	> 11 *	about 115 km/h
LUME LIGHT	9 sqm	11	110 km/h
90 STD/ESSE	10.5 sqm	6	51 km/h
90 CAVO/ESSE	9 sqm	8	70 km/h
80 STD	9 sqm	6	51 km/h
80 CAVO	9 sqm	8	70 km/h
70 STD	9 sqm	6	51 km/h
70 CAVO	9 sqm	8	70 km/h
65 STD	9 sqm	6	51 km/h
65 CAVO	9 sqm	8	70 km/h
81 P	9 sqm	4	28 km/h

^{*} The class obtained exceeds the max value of the Beaufort scale.





USAGE AND MAINTENANCE MANUAL FOR WIRE AND CHAIN EXTERNAL VENETIAN **BLIND SYSTEMS**

LUME - LUME ESSE - LUME LIGHT -

- 90STD 90CAVO 90 ESSE 90 INTEGRALE 81P 80STD 80CAVO
- 70STD 70CAVO 65STD 65CAVO







Lupak Metal srl

48018 Faenza RA Italia • via Granarolo, 77 • T +39 0546 646140 lupakmetal.com

REV 04 / 2023

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- 8 WARRANTY CONDITIONS
- 9 WIND LOAD RESISTANCE
- DECLARATION OF PERFORMANCE



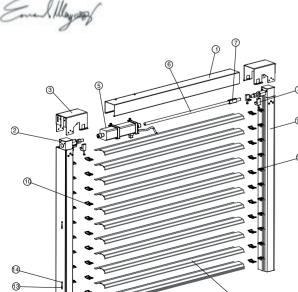


- 1. Unique identification code for the product-type: LUPAK METAL LUME. LUPAK METAL LUME ESSE. LUPAK METAL LUME LIGHT
- 2. Type number, lot, series, or any other element that allows identification of the product from construction pursuant to Article 11, paragraph 4:
- Sun shading. Venetian blinds for external use with aluminium slats.
- Chain systems.
- 3. Intended Uses:
- Sunshade closure for external use in buildings and other constructions
- **4.** Name, registered commercial name or registered trademark and manufacturer's address: Lupak Metal S.r.L. - Via Granarolo, 77 - 48018, Faenza (RA) - Italia
- 5. Not applicable
- 6. Performance evaluation and inspection system: VVCP 4
- 7. Harmonised reference standards:
 - EN 13659:2004+A1:2008
- 8. Not applicable
- 9. Declared performance: If used properly, the products meet the essential characteristics set forth in the standards listed below

ESSENTIAL CHARACTERISTICS	PERFORMANCE	HARMONISED TECHNICAL SPECIFICATIONS
Wind load resistance	Nominal pressure pN [N/m2]: 400 Pa (Km/h=92) Safety pressure pS [N/m2]: 600 Pa (Km/h=115)	EN 1932 EN 13659
Additional Thermal resistance ΔR	ΔR: 0.08 [m2K/W]	EN ISO 10077-1 EN 13125
Total solar energy transmit- tance gtot	gtot (90°): (*) gtot (45°): (*)	ISO 52022-1

- (*) The solar energy transmittance value is provided in the product technical specifications (P.7-31-
- 10. The performance of the product indicated above is in accordance with all declared performances. This Declaration of Performance is issued, in accordance with CPR Regulation (EU) 305/11, under the sole responsibility of the manufacturer identified above.

Signed in the name of and on behalf of Lupak Metal S.r.L.: Emanuela Mengozzi – Legal Representative Faenza, 10/05/2021.



Lupak Metal srl

48018 Faenza RA Italy via Granarolo 77 / T +39 0546 646140 Tax & VAT code 02447410396 lupakmetal.com

> KEY 1.Handling channel

2.Variator

3.Galvanized angle bracket already

assembled to the track

4.Handling channel locking 5 Motor

6 Driveshaft

7.Shaft joint

8.Slat in painted extruded aluminium

9.Adjustable gasket on the last slat

10.Slat fastening clip 11. Side track with integrated mechanics

12.Slat holders

13.Pre-installation slot

14.Threaded insert for track adjustment

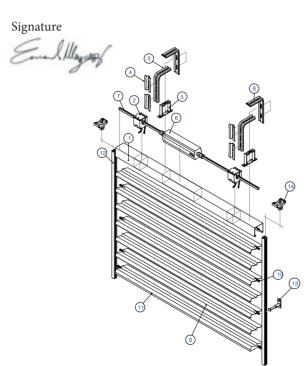


DECLARATION OF PERFORMANCE No 1011/2021

- 1. Unique identification code for the product-type: LUPAK METAL 90MM, LUPAK METAL 90 ESSE, LUPAK METAL 80MM, LUPAK METAL 70MM. LUPAK METAL 65MM. WINCH MOTOR STD.
- 2. Type number, lot, series, or any other element that allows identification of the product from construction pursuant to Article 11, paragraph 4:
- Sun shading. Venetian blinds for external use with aluminium slats. Wire systems.
- 3. Intended Uses:
 - Sunshade closure for external use in buildings and other constructions
- 4. Name, registered commercial name or registered trademark and manufacturer's address: Lupak Metal S.r.L. - Via Granarolo, 77 - 48018, Faenza (RA) - Italia
- 5. Not applicable
- 6. Performance evaluation and inspection system: **VVCP 4**
- 7. Harmonised reference standards:
 - EN 13659:2004+A1:2008
- 8. Not applicable
- 9. Declared performance: If used properly, the products meet the essential characteristics set forth in the standards listed below

ESSENTIAL CHARACTERISTICS	PERFORMANCE	HARMONISED TECHNICAL SPECIFICATIONS
Wind load resistance	Nominal pressure pN [N/m2]: 80 Pa (Km/h=41) Safety pressure pS [N/m2]: 120 Pa (Km/h=51)	EN 1932 EN 13659
Additional Thermal resistance ΔR	ΔR: 0.08 [m2K/W]	EN ISO 10077-1 EN 13125
Total solar energy transmit- tance gtot	gtot (90°): (*) gtot (45°): (*)	ISO 52022-1

- (*) The solar energy transmittance value is provided in the product technical specifications (P.83)
- 10. The performance of the product indicated above is in accordance with all declared performances. This Declaration of Performance is issued, in accordance with CPR Regulation (EU) 305/11, under the sole responsibility of the manufacturer identified above.
- Signed in the name of and on behalf of Lupak Metal S.r.L.: Emanuela Mengozzi Legal Representative Faenza, 10/05/2021.



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48018 Faenza RA Italy via Granarolo, 77 / T +39 0546 646140 Tax & VAT code 02447410396 lupakmetal.com

KEY 1.Handling channel

2.Variator

3.Cover panel support

4.Adjustable tab

5.Handling channel support 6 Motor

7 Driveshaft

8.Support for front fixing

9.Slat in painted aluminium profile

10 Slat holder

11.Cap

12.Side track

13.Telescopic spacer

14.Support in Nylon



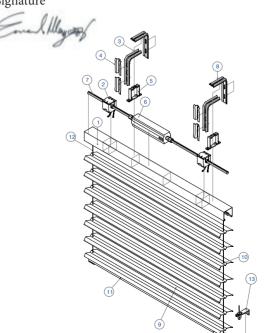
DECLARATION OF PERFORMANCE No 1012/2021

- 1. Unique identification code for the product-type:
- LUPAK METAL 90MM, LUPAK METAL 90 ESSE, LUPAK METAL 80MM, LUPAK METAL 70MM, LUPAK METAL 65MM. WINCH MOTOR WIRE.
- 2. Type number, lot, series, or any other element that allows identification of the product from construction pursuant to Article 11, paragraph 4:
 - Sun shading. Venetian blinds for external use with aluminium slats. Wire systems.
- 3. Intended Uses:
- Sunshade closure for external use in buildings and other constructions
- 4. Name, registered commercial name or registered trademark and manufacturer's address: Lupak Metal S.r.L. – Via Granarolo, 77 – 48018, Faenza (RA) – Italia
- 5. Not applicable
- **6**. Performance evaluation and inspection system: **VVCP 4**
- 7. Harmonised reference standards:
- EN 13659:2004+A1:2008
- 8. Not applicable
- 9. Declared performance: If used properly, the products meet the essential characteristics set forth in the standards listed below

ESSENTIAL CHARACTERISTICS	PERFORMANCE	HARMONISED TECHNICAL SPECIFICATIONS
Wind load resistance	Nominal pressure pN [N/m2]: 170 Pa (Km/h=60) Safety pressure pS [N/m2]: 255 Pa (Km/h=70)	EN 1932 EN 13659
Additional Thermal resistance ΔR	ΔR: 0.08 [m2K/W]	EN ISO 10077-1 EN 13125
Total solar energy transmit- tance gtot	gtot (90°): (*) gtot (45°): (*)	ISO 52022-1

(*) The solar energy transmittance value is provided in the product technical specifications (P.83)

- 10. The performance of the product indicated above is in accordance with all declared performances. This Declaration of Performance is issued, in accordance with CPR Regulation (EU) 305/11, under the sole responsibility of the manufacturer identified above.
- Signed in the name of and on behalf of Lupak Metal S.r.L.: Emanuela Mengozzi Legal Representative Faenza, 10/05/2021.



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KEY 1.Handling channel

2.Variator

3.Cover panel support 4.Adjustable tab

5.Handling channel support 6 Motor

7 Driveshaft

8.Support for front fixing

9.Slat in painted aluminium profile 10.Passage hole for flanged cable

11.Cap 12.Side steel cable

13.Tensioner for front fixing

14.Plate for floor fixing



