

Shell



ANNIVERSARY
35
1987 - 2022

CANOPY CEILINGS

LINEAR PANEL SYSTEMS FOR FUEL PETROL STATIONS
PRE PAINTED ALUMINIUM AND STEEL FOR EXTERNAL
INCOMBUSTIBLE EUROCLASS A1

Italian excellence for architectural solutions



EPD®
THE INTERNATIONAL EPD® SYSTEM



Certified Quality Management System
UNI EN ISO 9001:2015

Certified Environmental Management System
UNI EN ISO 14001:2015



Products with Standards
European Certified
EN 13964:2014 - EN 14195:2005

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www.metalscreen.it metalscreen@metalscreen.it

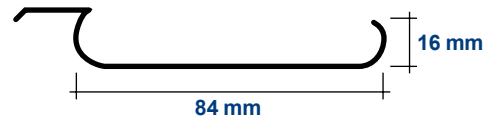
100% MADE IN ITALY

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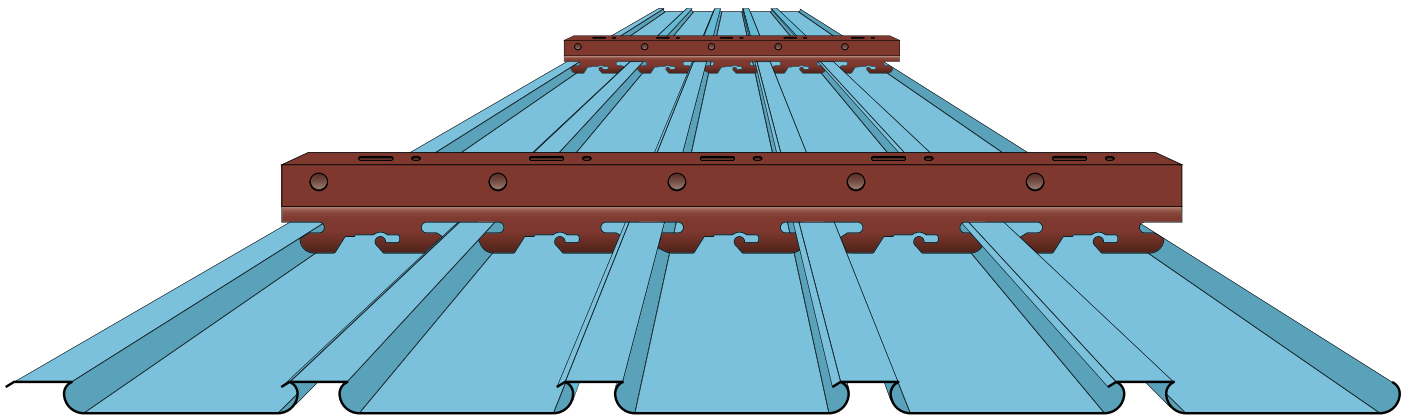


Type LT/100-R

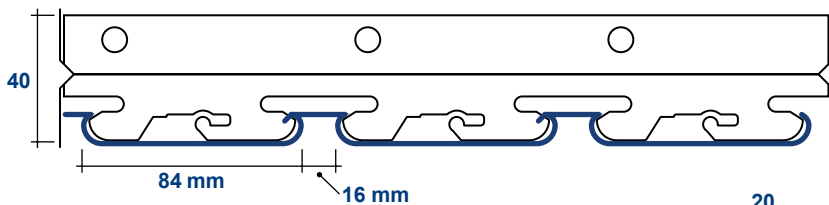
Technical specification



False suspended ceiling for external application **TYPE METALSCREEN LT/100-R** realized with removable linear panels plain rounded edges width mm.84 height mm.16 pitch mm.100 with mm.16 closed simple or rebated reinforced joint gap. Made of prepainted steel thickness mm.0,5 or pre painted aluminium Coil Coating alloy 3105-h44-48 thickness mm.0,6 Incombustible Euroclass A1, NOT allowed powder coated paints. The panels are suspended with a simple clip-on the main supporting carrier **TYPE METALSCREEN 63/Z STRONG** U section with longitudinal hard torsion-proof made of hot dipped galvanized steel reinforced thickness mm.0,7 perpendicular suspended at maximum mm.700. The linear panels are connected with simple overlap of the strip panel.

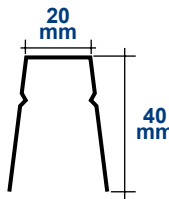
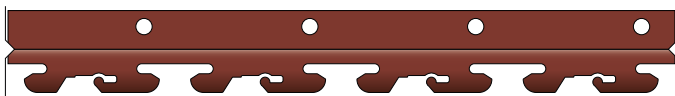


Type LT/100-R mm.84 + mm.16 open gap



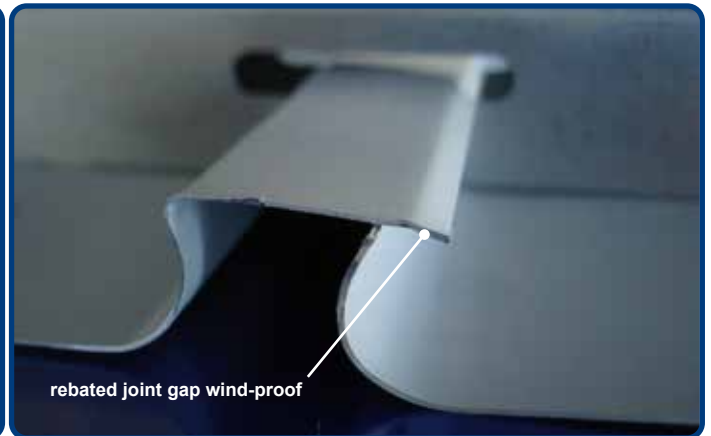
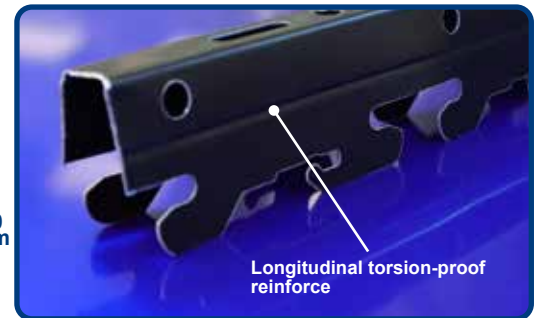
Type 63/Z STRONG main supporting carrier

Lenght mm.4000 - Open gap mm.16



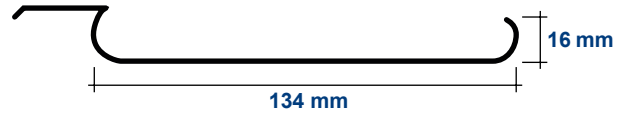
Type 63/Z STRONG

U supporting carrier hard torsion-proof reinforce made of galvanized steel thickness mm.0,7. **For outdoor installations suggested pre painted aluminium thickness 10/10 color Black coated on both sides**

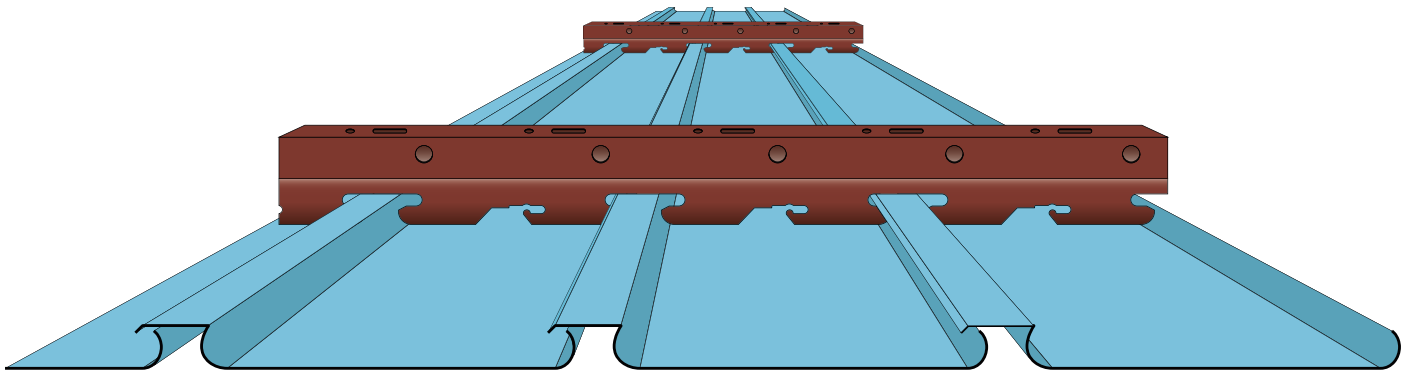


Type LT/150-R

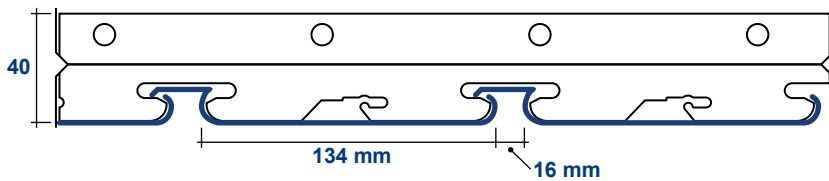
Technical specification



False suspended ceiling for external application **TYPE METALSCREEN LT/150-R** realized with removable reinforced linear panels plain rounded edges width mm.134 height mm.16 pitch mm.150 with mm.16 closed rebated reinforced joint gap. Made of prepainted steel thickness mm.0,5 or pre painted aluminium Coil Coating alloy 3105-h44-48 thickness mm.0,6 Incombustible Euroclass A1, NOT allowed powder coated paints. The panels are suspended with a simple clip-on the main supporting carrier **TYPE METALSCREEN 63/150-LTZ STRONG** U section with longitudinal hard torsion-proof made of hot dipped galvanized steel reinforced thickness mm.0,7 perpendicular suspended at maximum mm.700. The linear panels are connected with simple overlap of the strip panel.

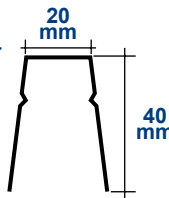
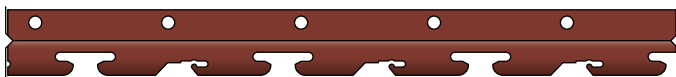


Type LT/150-R mm.134 + mm.16 open gap



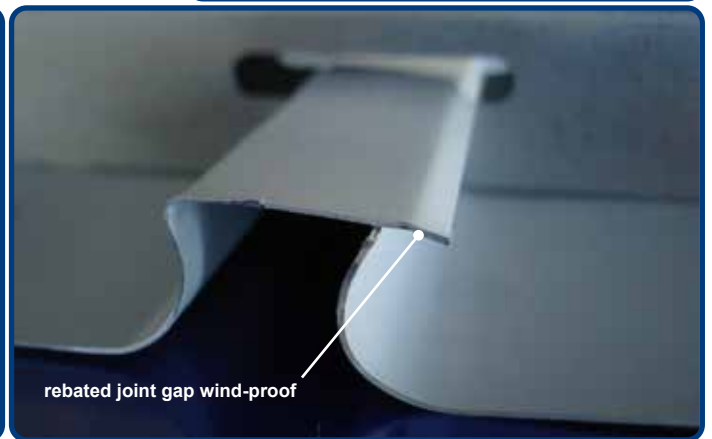
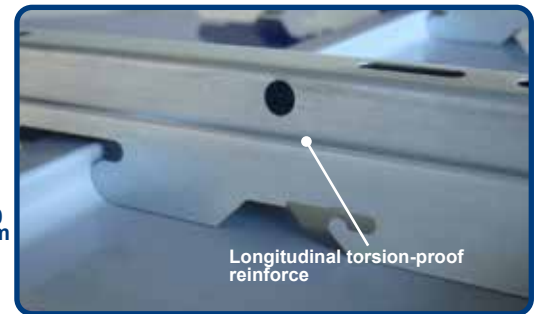
Type 63/150 LTZ-STRONG main supporting carrier

Length mm.4000 - Open gap mm.16



Type 63/150 LTZ-STRONG

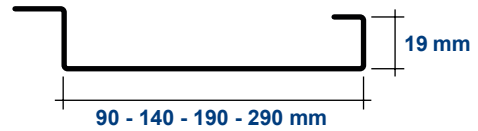
U supporting carrier hard torsion-proof reinforce made of galvanized steel thickness mm.0,7. **For outdoor installations suggested pre painted aluminium thickness 10/10 color Black coated on both sides**



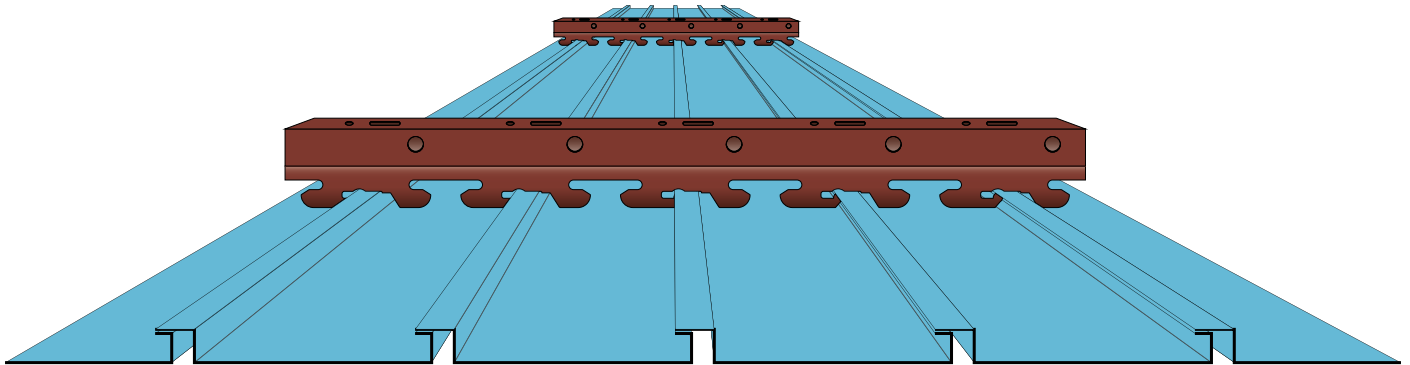


Type LA with joint

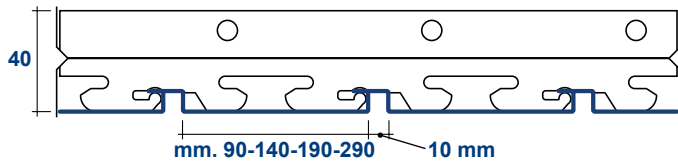
Technical specification



False suspended ceiling for external application **TYPE METALSCREEN LA** realized with removable linear panels plain shaped edges width mm.90-140-190-290 height mm.19 pitch mm.100-150-200-300 with mm.10 closed joint gap. Made of prepainted steel thickness mm.0,5 or pre painted aluminium Coil Coating alloy 3105-h44-48 thickness mm.0,6 Incombustible Euroclass A1, NOT allowed powder coated paints. The panels are suspended with a simple clip-on the main supporting carrier **TYPE METALSCREEN 63/100Z STRONG** U section with longitudinal hard torsion-proof reinforce or Omega section **TYPE 44-01** made of hot dipped galvanized steel reinforced thickness mm.0,7 perpendicular suspended at maximum mm.700 (follow choice of the Consultant). The linear panels are connected head to head.

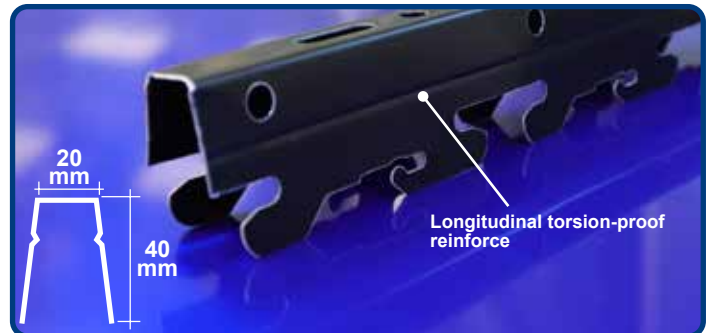


Type LA fully removal pitch mm.100-150-200-300 closed with joint gap mm.10

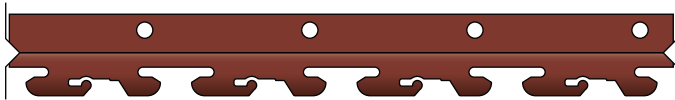


Type 63/Z STRONG

U supporting carrier hard torsion-proof reinforce made of galvanized steel thickness mm.0,7. For outdoor installations suggested pre painted aluminium thickness 10/10 color Black coated on both sides

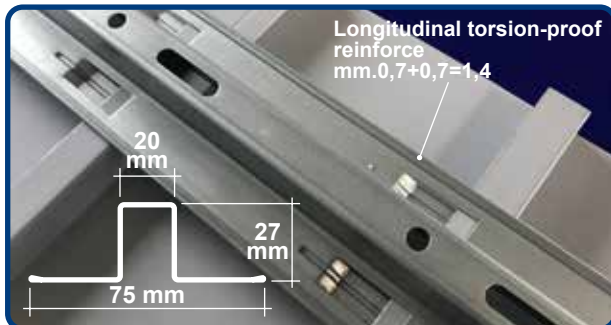


Type 63/Z STRONG main supporting carrier lenght mm.4000



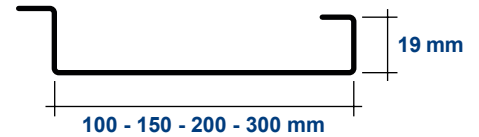
Type 44-01 Omega

Main supporting carrier galvanized steel Thickness mm.0,7

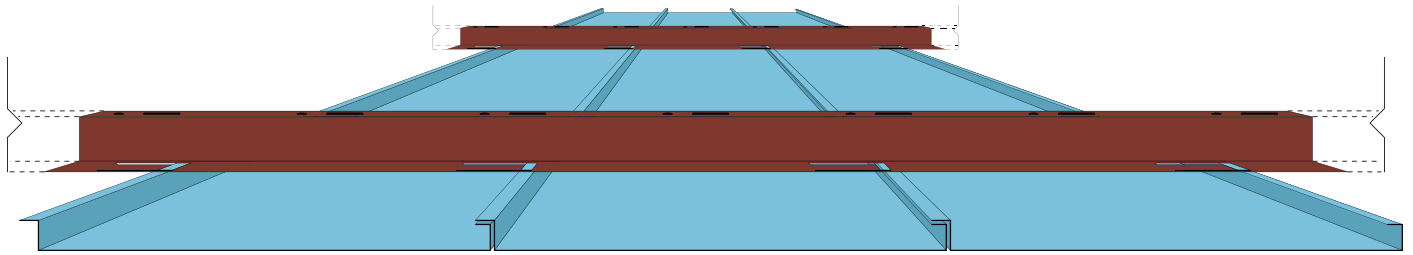


Type LA-RIV without joint

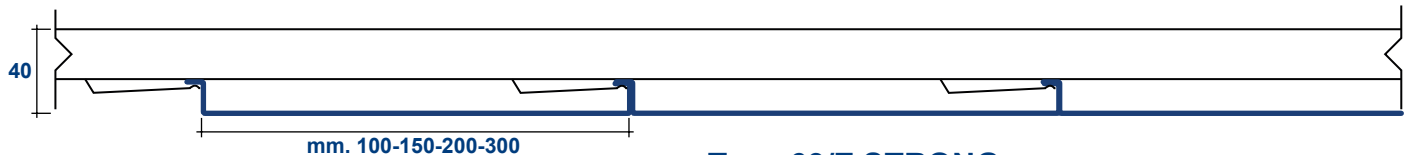
Technical specification



False suspended ceiling wind proof for external application **TYPE METALSCREEN LA-RIV** realized with linear panels plain shaped edges width mm.100-150-200-300 height mm.19 pitch mm.100-150-200-300 closed without joint gap. Made of prepainted steel thickness mm.0,5 or pre painted aluminium Coil Coating alloy 3105-h44-48 thickness mm.0,6 Incombustible Euroclass A1, NOT allowed powder coated paints. The panels are suspended with a simple clip-on the main supporting carrier **TYPE METALSCREEN 63/100Z STRONG** U section with longitudinal hard torsion-proof reinforce or Omega section **TYPE METALSCREEN 44-01** made of hot dipped galvanized steel reinforced thickness mm.0,7 perpendicular suspended at maximum mm.700 (follow choice of the Consultant).

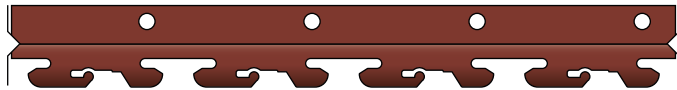


Type 44-01 omega main supporting carrier **Type LA-RIV** closed without joint windproof pitch mm.100-150-200-300



Type 63/Z STRONG

Main supporting carrier Length mm.4000



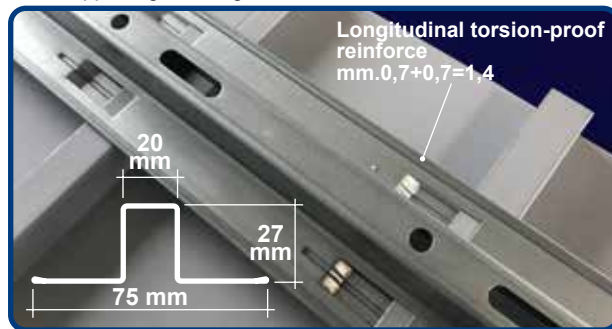
Type 63/Z STRONG

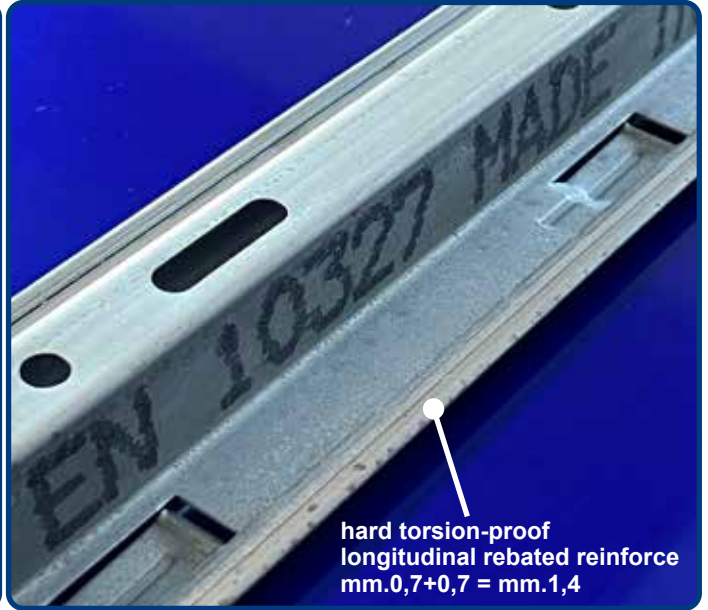
U supporting carrier hard torsion-proof reinforce made of galvanized steel thickness mm.0,7. For outdoor installations suggested pre painted aluminium thickness 10/10 color Black coated on both sides



Type 44-01 Omega

Main supporting carrier galvanized steel Thickness mm.0,7





Management system certification
ISO 9001:2015 Quality
ISO 14001:2015 Environmental

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WATERPROOF PACKING FOR OUTSIDE FALSE CEILINGS AND EXTERNAL CLADDINGS

Packaging is the business card of the company.

Packaging is meant to enhance the products offered and promote the manufacturer's new industrial culture.

Good and properly packing is like well setting the table and arrange excellent garnished and inviting dishes.



PACKING EXCELLENCE QUALITY GUARANTEE

Our packaging enhances the products and ensures protection in every weather condition: dust, rain, snow, humidity, acid rain, hail, air pollution, sand storm, dirt and everything that could attack the safety of product in outdoor and indoor environments before its installation. Water-repellent and watertight packaging for aluminum and steel false ceilings is a guarantee to keep the product in top condition and to remain intact every place every where.

Our packing system is suitable for outdoor positioning, handling on site and storage on loading areas, warehouses and loading/unloading docks, excellent for sea shipments. Metalscreen is the only manufacturer that employs 100% waterproof and salt-resistant recycled tubular pvc and cardboard boxes reinforced with a double separator shock-proof bottom supported by transportable recycled wooden pallets.



Management system certification
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 ISO 14001:2015 Environmental

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METALSCREEN RANGE OF PRODUCTS

for internal and external applications - aluminium and pre-painted steel
 incombustible Euroclass A1



LINEAR STRIPES FOR CEILING AND WALL CLADDINGS INTERNAL AND EXTERNAL APPLICATIONS
 Rounded and shaped edges, open gap closed joint, windproof without joint. Pre painted aluminium and steel Incombustible Euroclass A1



OPEN CELL CEILING GRID SYSTEMS CARABOTTINO
 Open screen grid ceilings squared and rectangular cells, fully movables panels integrated concealed system and LAY-IN LAY-ON T 24-15 exposed suspension grid system. Pre painted aluminium Incombustible Euroclass A1



PANELS
 False ceiling panels mm.600x600 concealed systems CLIP-IN and LAY-IN LAY-ON T 24-15 exposed suspension grid system. Pre painted aluminium and steel Incombustible Euroclass A1



EXPOSED T SUSPENSION GRID FOR LAY-IN CEILING
 TWIN LOCK reticular grid T section mm.24 height mm.38 main runner and cross tees mm.600-1200 made of hot dipped galvanized steel with exposed pre painted aluminium capping washable 100% humidity resistant corrosion proof saltiness Incombustible Euroclass A1



SUN LOUVRES SOLAR SCREEN LINEAR PANELS 84R
 Linear stripes 84R windproof width mm.84 rounded edges clip-on main supporting stringers inclination 30° - 45° - 65°-22°. Pre painted aluminium for external use 100% humidity resistant corrosion proof saltiness Incombustible Euroclass A1



DRYWALL METAL SECTIONS FOR GYPSUM BOARD
 Roll-formed hot dipped galvanized steel large range of construction profiles C stud, U tracks and channels for all plasterboard drywall lining ceilings & partition wall systems. 100% humidity resistant corrosion proof saltiness Incombustible Euroclass A1

Ceilings and Coatings are produced for internal/external application in compliance with the applicable Technical Standards UNI EN 13964. The products are accompanied on request by the Declaration of Performance D.O.P. as required by European Regulation 305/11 concerning the placing of construction products on the market.

CERTIFICATION	
FLEXURAL STRENGTH Max span mm.1200 Class 1	
PAINT DURABILITY Class C	
GALVANIZED DURABILITY Class B	
EMISSION OF HAZARDOUS SUBSTANCES None	
FIRE RESISTANCE Gratings, smooth, perforated planks, perforated panels with TNT Class A1 Perforated slats with acoustic TNT Class A2s1d0	
CORROSION RESISTANCE Galvanised steel products Class C2 Pre-coated galvanised steel products Class C3 Pre-coated aluminium products Class C5	

DURABILITY WASHABLE ROT-PROOF MOISTURE AND CHEMICAL CORROSION PROTECTION

Aluminium suspended ceilings ARE washable and rot-proof, do NOT absorb or produce moisture, do not rust, do not yellow, allowing you to live, work and study in healthy, clean environments.

They are NOT hygroscopic like plasterboard, mineral fibre panels, glass wool and rock wool. They do NOT contain lead or chromium. They do NOT absorb fumes, they do NOT release harmful microfibres into the air. BIO SANITAS coating process with anti-microbial active hygienic paints.

100% RECYCLABLE ECO SUSTAINABILITY COMPATIBILITY

Aluminium is 100% recyclable. Secondary aluminium possesses the same chemical and physical characteristics as primary aluminium. The product contains 85% recycled material. The aluminium laminate production process is carried out with environmental awareness already in the transformation phase, avoiding energy losses, no use of chromium and lead in pre-treatment, no release of harmful dust, gases and sewage into the ecosystem, and even the heat released from the transformation is recirculated to heat the production facilities. All products are 100% recyclable and contribute to LEED certification scores. LEED product mapping available on request - EPD Environmental Product Declaration, the company is certified with a UNI EN ISO 14001 environmental management system.

DISPOSAL AND MAINTENANCE COSTS

They are practically zero; steel and aluminium are 100% recyclable. Aluminium is a valuable noble metal, the product at the end of its life cycle is taken back and purchased from the rolling mills and 100 per cent recycled and not compulsorily disposed of onerously like other harmful products such as chalk, fibrous, glassy, etc. Recycled content is already present, 85%. The undisputed durability of the manufactured product does not require extra maintenance over time but only occasional washing of the product to remove external sediments.

PACKAGING

Our suspended ceilings and cladding products are packaged in waterproof packaging suitable for shipping and outdoor positioning at construction sites and yards, storage in warehouses and on logistics platform docks. Our optimal packaging made of 100% recyclable and recycled elements protects the product in outdoor and indoor environments before installation. This is also Metalscreen's standard of excellence: from the raw materials to the finished, packaged product.

TRANSPORT AND HANDLING IN WAREHOUSES AND CONSTRUCTION SITES

The aluminium is lightweight. Significant reduction in transport costs and easy handling at construction sites and warehouses compared to all other ceiling types on the market.

LOAD-BEARING CAPACITY AND FLEXURAL STRENGTH

The load-bearing capacity and flexural strength, indicated in the data sheets, express limit states for maintaining the flatness and breaking strength characteristics of the membranes and frames.

The metal membranes are Class 1 in flexural strength, and the frames normally have a maximum span of 1200 mm.

In accordance with the Technical Regulations for Construction - Ministerial Decree 14/01/2008, lighting fixtures, elements, accessories, technological appliances must be independently suspended from the ceiling and never burden the ceiling system, which is self-supporting only for itself.

All membranes are designed to ensure that the aesthetic flatness properties are maintained and are normally dimensioned to support their mass.

NON-COMBUSTIBLE REACTION TO FIRE EUROCLASS A1

Aluminium and pre-painted steel are classified as non-combustible DOES NOT react to fire DOES NOT produce any harmful emissions. Suspended ceilings and cladding comply with the Euroclass A1 standard (formerly Class 0) for building materials; systems with perforated metal membrane with acoustic fabric are non-combustible.

Aluminium and steel suspended ceilings and cladding do not release hazardous substances.

Coil Coating process of pre-coated aluminium and steel using a continuous casting process performed with environmentally friendly substances free of Volatile Organic Compounds (VoC).

NO post-coating with powders NO dyeing.

Since they are already classified as non-combustible, they have no fire resistance class (REI).

LEED EPD DAP

All products are 100% recyclable and contribute to LEED certification scores with LEED product mapping EPD Environmental Product Declaration DAP Environmental Product Declaration.

The company is certified with an environmental management system UNI EN ISO 14001:2015.

LIGHTWEIGHT ANTI-DETACHMENT

The low specific weight of aluminium, 60% less than steel and copper, makes it the lightest cladding and ceiling system.

The low specific weight of aluminium makes the ceiling/cladding system light when fixed to the wall or suspended from the ceiling, avoiding the detachment caused by heavy ceiling systems such as plasterboard, extra-large steel panels, expanded metal, stainless steel.

The 1 to 4 weight ratio significantly reduces transport handling costs.

It reduces the cost impact of accessories for suspension mounting and wall cladding.

RESISTANCE DURABILITY PROTECTION AGAINST CORROSION AND EXTERNAL AGENTS

Thanks to the protective coating and the characteristics of aluminium, coatings and suspended ceilings have unlimited durability for indoor and outdoor use.

100% resistance to corrosion by external agents, salt, acid rain, pollution, fumes, acids, animal guano.

We have certified our products with excellent results in salt spray corrosion resistance tests according to UNI EN ISO 9227:2017 at an accredited institute.

Suspended ceilings and cladding are made of pre-coated aluminium and pre-coated galvanised steel adapted to the different durability exposure classes as per the UNI EN ISO 13964 standard on exposure classes: galvanised steel products Class B, pre-coated galvanised steel products Class C, aluminium products are Class D.

For applications in environments with particularly aggressive agents: swimming pools, sulphur baths, processing plants, the use of components made of pre-coated aluminium is recommended.

The term corrosion indicates a natural and irreversible process of slow and continuous breakdown of a material, resulting in the deterioration of its physical properties. Corrosion resistance is indicated as low - medium - high alongside the corrosivity class of the environment, in order to assess the performance of the coating in the environment of final destination and under operating conditions.

It is not a guarantee of durability, but an indication to schedule maintenance activities necessary to maintain the properties in relation to the life cycle for which it was designed.

ENVIRONMENTAL COMMITMENT

Linear stripes for ceilings and wall claddings façades. Open cell ceilings grid systems. Sun louvres solar screen linear panels 84R. Exposed T suspension grid for ceilings.

METALSCREEN with LCA Life Cycle Assessment

analysed the entire life cycle of the product, from the arrival of the goods at the factory, production, loading and shipping in Italy and worldwide.



THE INTERNATIONAL EPD® SYSTEM

METALSCREEN has certified with **EPD**: Environmental Product Declaration, 3 types of systems:

- Aluminium system products
- Aluminium and Steel System products
- Steel System products

LEED CERTIFICATE

LEED Projects Certification Score Acquisition

Prepainted aluminium and steel ceilings
Aluminium sunshades and external cladding



Management system certification
ISO 9001:2015 Quality
ISO 14001:2015 Environmental



FOR A SUSTAINABLE GROWTH, RESPECT THE ENVIRONMENT AND HUMAN HEALTH: A CONSTANT COMMITMENT FOR EVERYONE'S FUTURE

METALSCREEN has been committed for years to **minimizing the environmental impact** of its production processes. We dedicate every effort to a **rational use of raw materials and energy**; in particular, we are involved in the development of new products and services that contribute to a cleaner and safer world. For some time we have been promoting the **development and sale of aluminum false ceilings** made with **new technologies, respectful of the environment and 100% recyclable**, dissuading the market from the use of fibrous and chalky false ceilings. Our production process has **eliminated any use of harmful raw materials and reduced energy consumption**. These milestones are integral elements of our effort not only to protect the environment but also to achieve operational excellence.

