

TECHNICAL CATALOGUE

2017 FIRST EDITION



coprimuro.NET[®]

Linea Marmoredile



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- WALL COPINGS
and
- WINDOWSILL
COVERS
IN MARMORESIN[®]
- FASCIA PANEL
and
- GUARDRAIL
KITS FOR
WALL COPINGS
IN MARMORESIN[®]

A SUCCESS STORY

We've been working successfully for the building trade ever since 1970, first with the MarmoEdile brand and now with Coprimuro.net, and more precisely in the field of exterior finishing components. A strong and important presence, always distinguished by the innovation that has helped consolidate concepts that are firmly shared and appreciated by all operators and end customers. The story of Coprimuro.net is the story of the people who for over 40 years of activity have successfully constructed the prestige of our company with their work and their passion. The expertise of Coprimuro.net® for the enhancement of your home was inspired by an idea about a problem that is potentially always present, namely infiltrations of water into walls. Our company's commitment was to create and market technologically advanced products with certified and consistent levels of performance.

The MarmoEdile range focused on the development of products to satisfy the construction and performance needs requested by the market, and now trains and informs operators in the sector, offering direct onsite assistance, and consults with architects and installers to find personalized solutions to their problems. Expertise and product quality guaranteed by research and development activities in the sector of finishing components. This catalogue puts all our experience at your service to find real solutions for real problems.



TECHNOLOGY



The added value of the Coprimuro.net® MarmoEdile range comes from some 40 years of experience in producing and processing resin marble, and this is why MarmoEdile products can boast so many years of brilliantly passed trials after installation, thanks also to the professional collaborators with particular skills in the sector.



DISTRIBUTION TO THE BUILDING TRADE

Close collaboration with the distribution world has always been a precise and important choice for the COPRIMURO.net MarmoEdile range. Coprimuro.net® works in perfect synergy with building product dealers throughout Italy, providing them with technical assistance services both at sales points and at the request of the dealer directly at installation sites. Technical training courses specifically developed for dealers, videos showing installation techniques, technical documentation, product information sheets and certifications and a constantly updated website, applications for tablets and smartphones. All the information needed to allow dealers to offer customers all necessary advice for perfect product installation. Seminar sessions can also be organized at sales points. Our dealers are not just business partners, but also partners in our growth.



ADVANTAGES FOR EVERYONE

There are different advantages to using MarmoEdile products, depending on the point of view.



Architects

Architects have the guarantee of certified products. The company's technical assistance aims to provide advice and to check correct product installation so that the best possible results can be guaranteed. Training programmes provide essential instructions on technical aspects of installation, using our updated website, and CD-ROMs ensure constant access to information for architects.



Installers

Installers receive constant assistance for correct installation with printed manuals or on IT devices. Product installation is practical and easy, ensuring that the needs of installers for convenience and simplicity are satisfied.



Homeowners

The ultimate goal in customer satisfaction for the MarmoEdile range is to protect your home against damage that would inevitably require major repairs in several places, as well as the touch of stylish attraction that wall copings give.

PRODUCTS

The quality of the products of the MarmoEdile line is guaranteed in all production phases by scrupulous checks.
The products of the MarmoEdile line are certified.





ABOUT MARMORESIN®

Product conformant to UNI 10330 (UNI EN 141618:2005) standards for agglomerated stone products made with an industrial procedure that ensures an irreversible bond between stone-based elements of various types and sizes.

The first artificial building materials used by humanity were bricks made from clay mixed with water and fired inside specific moulds at a particular temperature. Bricks of this type are still the predominant element used in buildings, also determining their dimensions. Over time, cheaper materials that are easy to process have been discovered, replacing stone and the materials described above.

Resin marble is not a widely known product, but for many reasons it must certainly be taken into consideration. More specifically, resin marble is a substitute for marble made synthetically from marble dust and resins for exterior applications. This process allows products to be made with dimensions and shapes that would be difficult to obtain with natural marble or other materials, and this is what gives it its special features and extreme value. Marble resin overcomes all the limits of natural marble, and when used in buildings it adds significant visual appeal. Marble resin, made with 90% marble dust, is therefore more practical and versatile than natural marble, and Marmoresin® is further enhanced to give the product a stability that lasts virtually forever. The raw materials are selected, measured and fed into a special mixing machine, and the resulting paste is poured into a mould, where vibration and modern vacuum technologies are used to remove all air bubbles that may impair the characteristics of visual appearance and mechanical resistance of the final product. During this compaction process, the material takes on the desired form and size, in an inverted U-shape. The maturation period necessary for the resin binder to achieve maximum strength is followed by cutting and finishing.

**Product made
with substances
harmless for the
ozone layer**



WALL COPING

ADVANTAGES



Compared to natural marble and granite, marble agglomerates have indisputable advantages:

- Greater possibility of finding supplies of stone materials, because these can be obtained even from broken rocks or from stone with unsuitable characteristics for processing in blocks or slabs.
- Better mechanical characteristics that can be predicted with greater reliability.
- Greater uniformity of colour.
- Possibility of new visual solutions obtained by mixing different materials.

A wall coping in resin marble also has these advantages:

- Prevents efflorescence
- Prevents unsightly dark marks from water runoffs
- Prevents water infiltrations
- Prevents swelling of plasterwork
- Prevents cracking in walls
- Special drip moulding at 45° and 4 cm high to prevent water from returning to wet the wall
- No maintenance necessary
- Can be cut and drilled without chipping if guardrails need to be fitted
- Adaptable to any type of wall width and to match any required decor scheme
- Length of 1200 cm



COLOUR TREATMENTS

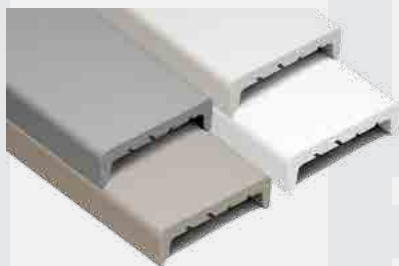


In addition to treating marble pastes with mineral oxides to give them the desired colour, for the MarmoEdile line over the years we have used new technologies to optimize a method for colouring and treating wall copings externally, making them totally resistant to adverse weather and at the same time giving them a colouration that is as natural as possible.

This treatment involves the use of an external finishing layer with dense two-part resins, which are applied directly to the mould as part of the main lamination process. Epoxy or polyester resins can be used. Special pigments are then added to every resin to give colour and consistency, and these are combined with an agent mixed in to give them the necessary thixotropic properties. This procedure creates a smooth and compact surface layer without porosity, protecting the component against bad weather and ultraviolet radiation and forming an impermeable barrier against water absorption.



COLOURS



BASIC COLOURS

MAB	PURE WHITE
MAP	IVORY WHITE
MAG	TELEGREY
MAGT	DOVE GREY
MAR	OCHRE BROWN
MAGI	MUSTARD YELLOW

PURE WHITE

IVORY WHITE

TELEGREY

DOVE GREY

OCHRE BROWN

MUSTARD YELLOW

Continuous technical research working in collaboration with our sales force has helped MarmoEdile to cater even more fully for the request of customers for finishing effects that are as natural as possible, giving our new grey granite and beige granite colours.



MOTTLED COLOURS

MAV PASTEL VIOLET

MARA SALMON ORANGE

MABL SKY BLUE

GRANITE COLOURS

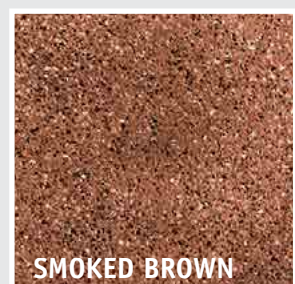
MAGRAGRI GREY GRANITE

MAGRABE BEIGE GRANITE

SMOKED COLOURS

MAGFUME SMOKED GREY

MARFUME SMOKED BROWN





Are non-standard sizes available?
Yes, they certainly are, but only if the customer is willing to bear the additional cost of the different mould required.
For estimates call +39 0541 658324



On request the coverup model with an 8 cm lip can be supplied.
Contact us for availability.

REFERENCE DIMENSIONS

The thickness of copings is 18 mm, with a total height of 60 mm and a length of 1200 mm.

The right size for your wall

Photo showing the coping measurement. The right size is 1 cm more than your wall, meaning that if your wall has a width of 10 cm, the internal measurement of the coping must be 11 cm. The internal measurement must be taken just 1 cm beneath the internal support surface.

INTERNAL MEASUREMENTS

Available for all colours

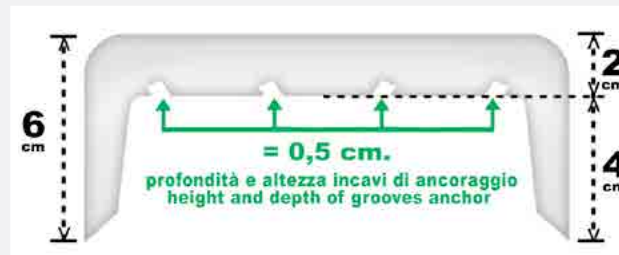
7	cm
9	cm
10	cm
11	cm
12	cm
13	cm
15	cm
17	cm
19	cm
21	cm
23	cm
25	cm
27	cm
29	cm
32	cm
35	cm
40	cm
50	cm

TENDERING SPECIFICATIONS



Supply of coping stones for parapets and perimeter wall with an inverted U-shaped cross-section with a flat surface and a thickness of 20 mm suitable for the protection of the parapet or wall beneath them. Composed and made from the mixture of miscellaneous types of marble dust with specific resins and adhesives. Surface coated with special chemical enamels to enhance colour, at the same time increasing resistance to adverse weather conditions.

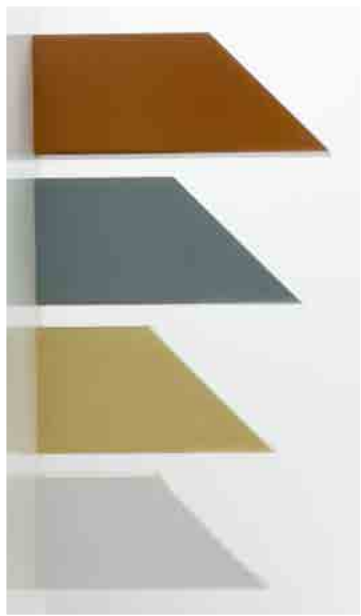
The internal support surface has longitudinal grooves impressed obliquely with respect to the vertical axis, such as to permit suitable adherence of the adhesive compound (type C2TE S1), and therefore to prevent the detachment of the component.



The cross-section of the lateral lip is chamfered on both the internal and external sides of the wall. The purpose of the internal chamfer is to facilitate installation. The purpose of the external chamfer is to act as a drip moulding, so as to keep drips of rainwater falling onto the coping and draining off it away from the wall. The total height of the coping is 60 mm, and its length is 1200 mm. The consistency of the component is guaranteed by a high specific weight of no less than 2100 kg/m³.

SPECIAL FORMATS

Components cut at an angle of 45° or cut to size are available on request, together with pre-welded corners and terminal sections. Special formats are obtained from standard coping sections, and the cost of any excess lengths is calculated separately. Special formats are created entirely by hand by expert operators, allowing architects to design complete architectural projects and facilitating the application of copings for installers, reducing possible wastage. (Costs are indicated in the price list).

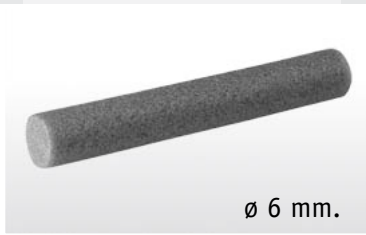


WALL COPING IN MARMORESIN® CURVED



Curved copings for balconies are not supplied. The problem can however be solved by cutting small angled sections from a straight coping, following a template provided by the customer





Joint insert in closed-cell expanded polythene to fill gaps and provide support for the acetic silicone compound for exterior use. Products supplied by Coprimuro.net

INSTALLATION OF WALL COPINGS

To ensure the best possible results, installers must consider 10 fundamental points:

- Adequate preparatory design, inclusive therefore of all materials necessary for any special details
- Choice of the adhesive compound to be used: (coating adhesive with 40% latex) C2 TE S1
- Choice of joint filling compound (elastic material) to avoid continuous joints
- Joints must be completely free and clean, as any adhesive residues between joints would impair the anchorage of components
- Use a spirit level
- Bucket, trowel
- Brush or broom to clean away any dust from the wall and components
- Paper masking tape
- To ensure that the adhesive compound maintains maximum elasticity, it is advisable to avoid component installation during the hottest or coolest hours of the day (recommended temperature +5°C to +25°C)
- Check that the materials received correspond to the order

For correct installation, consult the installation manual

As it is made with resins, the product may be subject to expansion and contraction, and particular attention must therefore be dedicated to joints. In the absence of even one of the above points, the final results will almost certainly be impaired.



WINDOWSILL SYSTEM

MARMORESIN® FOR ENVIRONMENTAL PROTECTION



Since 2005, the introduction of legislative measures on the control of energy efficiency and greater environment protection with lower carbon dioxide emissions have led to the development of various technologies and systems. The most widely used is heat insulation, with the application of cladding that involves the thickening of external perimeter walls by installing panels in EPS or other insulation materials, with a thickness determined by U-values for thermal transmittance for opaque vertical structures expressed in W/m^2k .

(Annex C to Italian Legislative Decree 311.)



WINDOWSILL COVERING SYSTEM IN MARMORESIN® HOW IT WORKS



The Windowsill Covering System ensures lasting sealing of the sides of windowsills against heavy rain with no need for maintenance, and allows windowsills and windowsill coverings in Marmoresin to be fitted without additional lateral sealing.

These innovative plastic sealing profiles are the ideal alternative to all the other complicated and expensive conventional sealing solutions. In addition to being rational and rapid to install, they also make it possible to permanently waterproof the side walls of windows. The profile forming the joint with plasterwork also allows windowsills to be fitted using the system. This solution combines quick and easy fitting with lasting waterproof sealing.

Advantages:

- Simplification of installation work
- No need for costly work to seal the joint between the window and the windowsill with sealing tape or similar materials
- Quick and easy operations with the special tool included with the profiles supplied
- Thermal expansions of windowsills can be compensated for without problems
- Perfect finished appearance
- Long-lasting protection against heavy rain

For further information we are always at your disposal, or ask for informative materials from info@coprimuro.net.



COPRISOLPAD 280



COPRISOLPAD FB

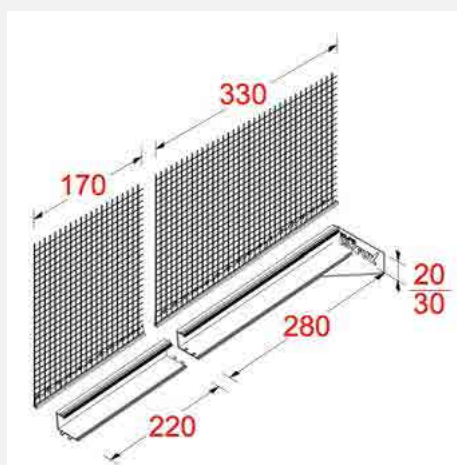


WINDOWSILL COVERING SYSTEM IN MARMORESIN® COPRISOLPAD 280



Innovative system for the permanent fitting of windowsill coverings in two sections, with no need for maintenance. By diverting water away from the bottom of frames, they are made completely waterproof. This component installed beneath the window frames ensures insulation against both water infiltrations and heat losses.

The set consists in 1 or 2 strips of high-quality PVC with a raised edge (280), a fibreglass mesh for better plastering, and a profile section at the bottom (FB).

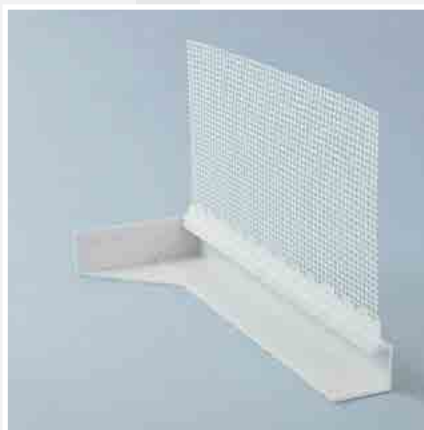


Technical data

Profile height 20–30 mm

Sealing mesh width 330–170 mm

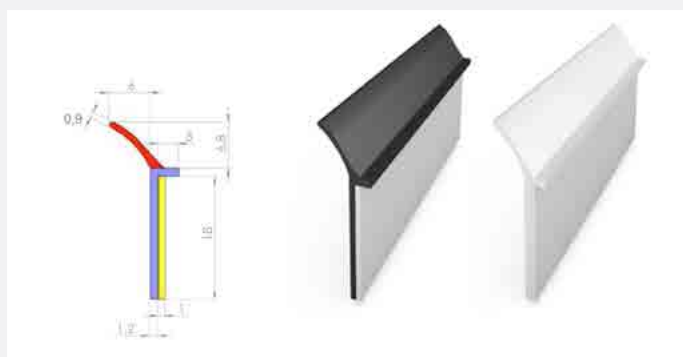
Profile length: 280 or 500 cm



WINDOWSILL COVERING SYSTEM IN MARMORESIN® COPRISOLPAD FB



Waterproofing strip to seal the windowsill covering against rain. The strip is made in rigid PVC with high resistance against aging and harsh weather conditions. The protective lip in soft black or white PVC is suitable for windowsill coverings of all thicknesses. Ideal to prevent water infiltrations and draughts between the windowsill and the window.



Technical data

Adhesive profile height 18 mm

Sealing lip height 6.8 mm

Profile length: 150 cm



WINDOWSILL COVERS IN MARMORESIN® COLOUR CODES



Available for all colours

- 120 cm
- 130 cm
- 140 cm
- 150 cm
- 160 cm
- 170 cm
- 180 cm
- 190 cm
- 200 cm

Depth:
39 and 45 cm.

Code	Colour
MS640 B	PURE WHITE
MS640 P	IVORY WHITE
MS640 G	TELEGREY
MS640 GT	DOVE GREY
MS640 R	OCHRE BROWN
MS640 GI	MUSTARD YELLOW
MS640 V	PASTEL VIOLET
MS640 A	PASTEL ORANGE
MS 640 BL	SKY BLUE
MS 640 GG	GREY GRANITE
MS 640 GB	BEIGE GRANITE
MS 640 GF	SMOKED GREY
MS 640 MF	SMOKED BROWN



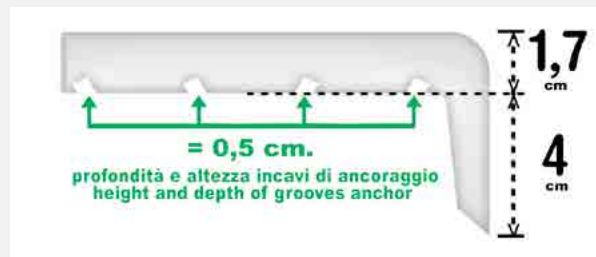


TENDERING SPECIFICATIONS FOR WINDOWSILL COVERS IN MARMORESIN®

Supply of covers for old external windowsills with an inverted L-shaped profile with a flat surface and a thickness of 16 mm, suitable for the protection of insulation cladding beneath the windowsill. Composed and made from the mixture of miscellaneous types of marble dust with specific resins and adhesives.

Surface coated with special chemical enamels to enhance colour, at the same time increasing resistance to adverse weather conditions. The internal support surface is such as to permit suitable installation over the old windowsill and the insulation cladding. The cross-section of the lateral lip is chamfered on the internal side, and its purpose is to act as a drip moulding, so as to keep drips of rainwater falling onto the windowsill cover and draining off it away from the insulation cladding, and the cover is completed by end terminals.

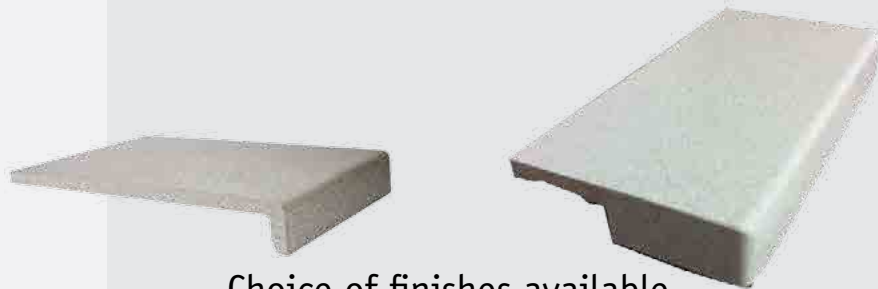
The total height of the windowsill cover is 17 mm.



WINDOWSILL COVERING SYSTEM IN MARMORESIN® ACCESSORIES

Windowsill coverings and end terminals can be cut to size both in depth and length.

Terminals



Choice of finishes available

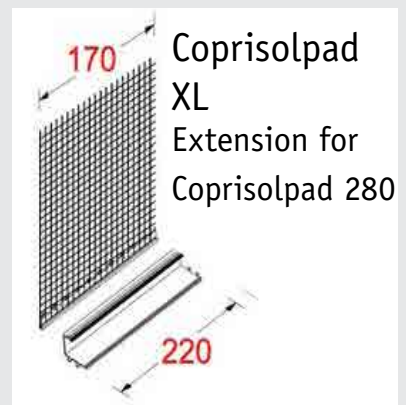
COPRITOOOL Cutting accessory



Adhesive polyurethane foam for gluing



Acesil silicone
compound

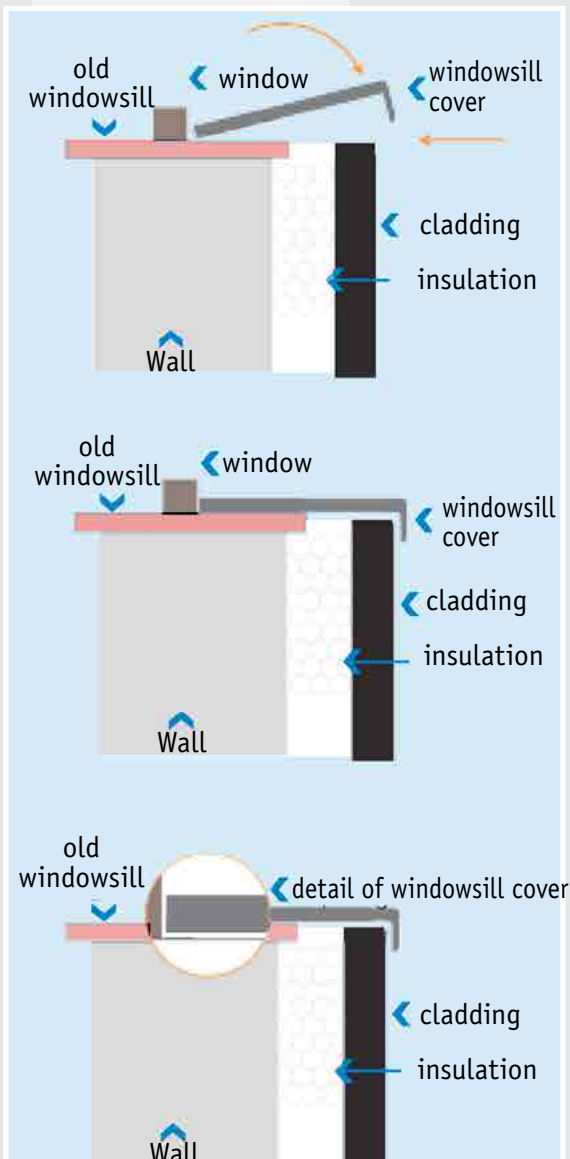


WINDOWSILL COVERS IN MARMORESIN® INSTALLATION



To ensure the best possible results, installers must consider the following fundamental points:

- Adequate preparatory design, inclusive therefore of all materials necessary for any special details
- Choice of the adhesive compound to be used: (coating adhesive with 40% latex) or even a one-part C2TES1 adhesive compound
- Choice of joint filling compound (elastic material e.g. an acetic silicone sealing compound for exterior use) NO cement joints
- Use a spirit level, buckets and trowel
- Measure the length and depth of the windowsill to be covered, taking into account the thickness of 1 cm if end finishing terminals are to be fitted
- Avoid damp and rainy days
- Spread a double layer of adhesive compound
- Clean any dust residues away from the windowsill and the installation surface, and sandpaper the installation surface
- Moisten with water to cool the installation surface if too warm due to exposure to sunlight
- Position a strip of rubber or polythene with a thickness of 5 cm between the window and the windowsill, to ensure adequate sealing of the silicone compound



PROBLEMS AND SOLUTIONS FOR WINDOWSILL COVERS IN MARMORESIN®



Problem

Technical solution

Detachment of cover

Check that the support surface is clean.

Repeated detachments

Check again that joints are clean and that there is a product between components that can absorb movements, such as acetic silicone compound for exterior use, and not a rigid cement product. If the problem continues, consider attaching the cover with a polyurethane adhesive or acetic silicone compound for exterior use.

Cleaning the cover

If necessary clean windowsill covers with soap and water. Usually however, they are self-cleaning.

Scratches on the cover

The only solution for scratches is replacement of the components, which must be done within 7 days of delivery with a request by fax or e-mail. In case of slight surface scratches, clean with an abrasive paste.

The resin marble is chipped
The resin marble is cracked

Same procedure as above.
Same procedure as above.
Reattachment of detached sections.
Any detached end terminals or corners can be reattached with an adhesive for marble.

The cover needs to be drilled or cut

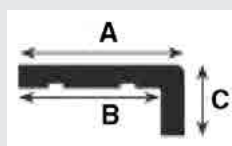
It can be cut or drilled with any type of tabletop saw, or even better a waterjet cutter.

Wrong size or colour ordered

Requests for replacement must be sent within 7 days by fax or e-mail.

WINDOW SURROUNDS IN MARMORESIN®

Window surrounds are used as finishing accessories in case of renovations with insulation cladding panels, with both decorative and protective functions.



A	B	C	THICKNESS
95	80	60	15
145	130	60	15
195	180	60	15
245	230	60	15
295	280	60	15

Measurements in mm



CERTIFICATIONS FOR WALL COPINGS AND WINDOWSILL COVERS

ISTITUTO GIORDANO
 Laboratorio di Ricerca e Sviluppo S.p.A. - Via Salaria, 900 - 00198 Roma

CERTIFICATO DI PROVA N. 146680/11424501

Largo e data di emissione: Roma, 01/04/2011
Committente: MARMO&ILE S.p.A. - Via Salaria, 90/100 - 00198 ROMA (RM)
Data della richiesta della prova: 23/01/2011
Numero e data della commissione: 14777/01/02/2011
Data di ricevimento del campione: 01/01/2011
Data dell'esecuzione della prova: dal 09/03/2011 al 09/03/2011
Oggetto della prova: Determinazione della massa volumica apparente e dell'assorbimento d'acqua secondo la norma UNI 10444
Largo della prova: Istituto Giordano S.p.A. - Blocco 2 - Via Salaria, 9 - 00198 Roma (RM)
Provenienza del campione: Area del Committente

Descrizione del campione:
 1 - oggetti sottoposti a prova secondo la sezione del profilo per l'installazione in appoggio al manufatto in pietra
 - Categoria 1
 - Categoria 2
 - Categoria 3

Richiesta accertata:
 La prova è stata eseguita secondo le prescrizioni della norma UNI 10444 (in formato PDF) "Metodo "Aspir" applicato - Determinazione della massa volumica apparente e dell'assorbimento d'acqua"

La Spett.le Direzione del Laboratorio di Ricerca e Sviluppo S.p.A. (Isp. Ing. Giuseppe Caporaso) Il Presidente e l'Assistentente Design (Dott. Ing. Francesco Jovanni)

Figura 1

Fotografia del campione 1 durante la prova.

La Spett.le Direzione del Laboratorio di Ricerca e Sviluppo S.p.A. (Isp. Ing. Giuseppe Caporaso) Il Presidente e l'Assistentente Design (Dott. Ing. Francesco Jovanni)

Figura 2

Compendio 1

Prova	Peso iniziale (kg)	Peso finale (kg)	Peso in acqua (kg)	Massa volumica apparente (kg/dm³)
1	0,2781	0,2789	0,1116	1,221
2	0,2786	0,2781	0,1121	1,218
3	0,2786	0,2789	0,1120	1,215
4	0,2787	0,2783	0,1124	1,216
5	0,2783	0,2786	0,1119	1,219
Media				1,218

Prova	Peso iniziale (kg)	Peso finale (kg)	Assorbimento di peso (kg)	Coefficiente di assorbimento
1	0,2781	0,2786	0,0005	0,2012
2	0,2786	0,2781	0,0005	0,2014
3	0,2786	0,2789	0,0003	0,2009
4	0,2787	0,2783	0,0004	0,2010
5	0,2783	0,2786	0,0003	0,2010
Media				0,2010

La Spett.le Direzione del Laboratorio di Ricerca e Sviluppo S.p.A. (Isp. Ing. Giuseppe Caporaso) Il Presidente e l'Assistentente Design (Dott. Ing. Francesco Jovanni)

Figura 3

Fotografia del campione 2 durante la prova.

La Spett.le Direzione del Laboratorio di Ricerca e Sviluppo S.p.A. (Isp. Ing. Giuseppe Caporaso) Il Presidente e l'Assistentente Design (Dott. Ing. Francesco Jovanni)

Figura 4

Fotografia del campione 3 durante la prova.

La Spett.le Direzione del Laboratorio di Ricerca e Sviluppo S.p.A. (Isp. Ing. Giuseppe Caporaso) Il Presidente e l'Assistentente Design (Dott. Ing. Francesco Jovanni)

Figura 5

Fotografia del campione 4 durante la prova.

La Spett.le Direzione del Laboratorio di Ricerca e Sviluppo S.p.A. (Isp. Ing. Giuseppe Caporaso) Il Presidente e l'Assistentente Design (Dott. Ing. Francesco Jovanni)

ISTITUTO GIORDANO
 Laboratorio di Ricerca e Sviluppo S.p.A. - Via Salaria, 900 - 00198 Roma

CERTIFICATO DI PROVA N. 146733/11429401

Largo e data di emissione: Roma, 01/04/2011
Committente: MARMO&ILE S.p.A. - Via Salaria, 90/100 - 00198 ROMA (RM)
Data della richiesta della prova: 23/01/2011
Numero e data della commissione: 14777/01/02/2011
Data di ricevimento del campione: 01/01/2011
Data dell'esecuzione della prova: dal 09/03/2011 al 09/03/2011
Oggetto della prova: Determinazione della massa volumica apparente e dell'assorbimento d'acqua secondo la norma UNI 10444
Largo della prova: Istituto Giordano S.p.A. - Blocco 2 - Via Salaria, 9 - 00198 Roma (RM)
Provenienza del campione: Area del Committente

Descrizione del campione:
 1 - oggetti sottoposti a prova secondo la sezione del profilo per l'installazione in appoggio al manufatto in pietra
 - Categoria 1
 - Categoria 2
 - Categoria 3

La Spett.le Direzione del Laboratorio di Ricerca e Sviluppo S.p.A. (Isp. Ing. Giuseppe Caporaso) Il Presidente e l'Assistentente Design (Dott. Ing. Francesco Jovanni)

Completamento scheda di prova (1/3) - Pagina 1 di 3

Modalità della prova:
 Il campione di riferimento viene testato a 100°C e il risultato dell'analisi di riferimento è uguale al valore di riferimento. Il valore di riferimento è pari a 100%.

$100\% = \frac{100}{100} \times 100\%$

Il valore di riferimento è pari a 100%.

Condizioni di prova:
 Temperatura ambiente: 18°C
 Temperatura di riferimento: 100°C

Risultati della prova:

Campione 1	
Prova	Coefficiente di dilatazione termica istantanea
1	100%
2	100%
3	100%
Valore medio	100%

Campione 2:

Campione 2	
Prova	Coefficiente di dilatazione termica istantanea
1	100%
2	100%
3	100%
Valore medio	100%

Il Responsabile
 Dr. Ing. Giancarlo Ferrarini

Il Responsabile
 Dr. Ing. Giancarlo Ferrarini

Il Presidente
 Dr. Ing. Francesco Ajmone

Completamento scheda di prova (2/3) - Pagina 2 di 3

Campione 1

Prova	Coefficiente di dilatazione termica istantanea
1	100%
2	100%
3	100%
Valore medio	100%

Campione 2:

Prova	Coefficiente di dilatazione termica istantanea
1	100%
2	100%
3	100%
Valore medio	100%

Il Responsabile
 Dr. Ing. Giancarlo Ferrarini

Il Responsabile
 Dr. Ing. Giancarlo Ferrarini

Il Presidente
 Dr. Ing. Francesco Ajmone

ISTITUTO GIORDANO

Completamento scheda di prova (3/3) - Pagina 3 di 3

CERTIFICATO DI PROVA N. 14653/143803

Lunga e data di emissione: Bolzano, 06/04/2011
 Commissione: MARCO EDELLI S.p.A. - Via Montebello, 98/100 - 47013 COSENZA (RN)

Data della richiesta della prova: 25/03/2011
 Numero e data della commissione: 14373/06/02/2011
 Data del ricevimento del campione: 01/04/2011
 Data dell'esecuzione della prova: dal 04/03/2011 al 04/04/2011
 Oggetto della prova: Determinazione della resistenza di pull-out per tiranti in gesso (M) in 200

Lunga della prova: IMMOBILIZIONE S.p.A. - Blocco 2 - Via Roma, 2 - 47014 Rubiera (RN)

Provenienza del campione: stesso del Committente

Descrizione del campione:
 Il campione sottoposto a prova era costituito da un tirante di gesso per tiranti in gesso, con le seguenti caratteristiche:

- Campione 1;
- Campione 2;
- Campione 3

Modalità della prova:
 Dopo aver verificato la qualità e l'identità della prova sottoposta a prova, si è proceduto all'esecuzione della prova di resistenza di pull-out per tiranti in gesso.

Il Responsabile
 Dr. Ing. Giancarlo Ferrarini

Il Presidente
 Dr. Ing. Francesco Ajmone

Completamento scheda di prova (1/3) - Pagina 1 di 3

Modalità della prova:

Campione 1

Campione 1	
Prova	Coefficiente di dilatazione termica istantanea
1	100%
2	100%
3	100%
Valore medio	100%

Campione 2:

Campione 2	
Prova	Coefficiente di dilatazione termica istantanea
1	100%
2	100%
3	100%
Valore medio	100%

Campione 3:

Campione 3	
Prova	Coefficiente di dilatazione termica istantanea
1	100%
2	100%
3	100%
Valore medio	100%

Il Responsabile
 Dr. Ing. Giancarlo Ferrarini

Il Responsabile
 Dr. Ing. Giancarlo Ferrarini

Il Presidente
 Dr. Ing. Francesco Ajmone

ISTITUTO GIORDANO

Completamento scheda di prova (2/3) - Pagina 2 di 3

RAPPORTO DI PROVA N. 146917

Lunga e data di emissione: Bolzano, 09/04/2011
 Commissione: MARCO EDELLI S.p.A. - Via Montebello, 98 - 47013 COSENZA (RN)

Data della richiesta della prova: 11/03/2011
 Numero e data della commissione: 14373/06/02/2011
 Data del ricevimento del campione: 04/03/2011
 Data dell'esecuzione della prova: dal 04/03/2011 al 03/04/2011
 Oggetto della prova: Resistenza all'irrobustimento marittimo su tiranti in malte cementizie

Lunga della prova: IMMOBILIZIONE S.p.A. - Blocco 4 - Via San Marco, 8 - 47014 Rubiera (RN)

Provenienza del campione: stesso del Committente

Descrizione del campione:
 Il campione sottoposto a prova è costituito da un tirante in malta cementizia di tipo 100, con le seguenti caratteristiche:

- Campione 1;
- Campione 2;
- Campione 3

Il Responsabile
 Dr. Ing. Giancarlo Ferrarini

Il Presidente
 Dr. Ing. Francesco Ajmone

ISTITUTO GIORDANO

Completamento scheda di prova (3/3) - Pagina 3 di 3

Riferimenti normativi:
 La prova è stata eseguita secondo le procedure della norma ASTM D1017 "Metodi di prova per la resistenza di pull-out per tiranti in gesso"

Modalità e condizioni della prova:

Resistenza all'irrobustimento marittimo UV test:
 Il campione sottoposto a prova è costituito da un tirante in malta cementizia di tipo 100, con le seguenti caratteristiche:

Risultati della prova:

Prova	Resistenza di pull-out
Campione 1	100%
Campione 2	100%
Campione 3	100%

Il Responsabile
 Dr. Ing. Giancarlo Ferrarini

Il Presidente
 Dr. Ing. Francesco Ajmone

Completamento scheda di prova (1/3) - Pagina 1 di 3

Modalità della prova:

Campione 1

Campione 1	
Prova	Coefficiente di dilatazione termica istantanea
1	100%
2	100%
3	100%
Valore medio	100%

Campione 2:

Campione 2	
Prova	Coefficiente di dilatazione termica istantanea
1	100%
2	100%
3	100%
Valore medio	100%

Campione 3:

Campione 3	
Prova	Coefficiente di dilatazione termica istantanea
1	100%
2	100%
3	100%
Valore medio	100%

Il Responsabile
 Dr. Ing. Giancarlo Ferrarini

Il Responsabile
 Dr. Ing. Giancarlo Ferrarini

Il Presidente
 Dr. Ing. Francesco Ajmone

ISTITUTO GIORDANO

Completamento scheda di prova (2/3) - Pagina 2 di 3

Fotografia del campione dopo l'irrobustimento UV test:

Il Responsabile
 Dr. Ing. Giancarlo Ferrarini

Il Presidente
 Dr. Ing. Francesco Ajmone

ISTITUTO GIORDANO

Completamento scheda di prova (3/3) - Pagina 3 di 3

CERTIFICATO DI PROVA N. 146881/142401

Lunga e data di emissione: Bolzano, 02/04/2011
 Commissione: MARCO EDELLI S.p.A. - Via Montebello, 98/100 - 47013 COSENZA (RN)

Data della richiesta della prova: 25/03/2011
 Numero e data della commissione: 14373/06/02/2011
 Data del ricevimento della prova: dal 04/03/2011 al 04/04/2011
 Oggetto della prova: Determinazione della resistenza di pull-out per tiranti in gesso (M) in 200

Lunga della prova: IMMOBILIZIONE S.p.A. - Blocco 2 - Via Roma, 2 - 47014 Rubiera (RN)

Provenienza del campione: stesso del Committente

Descrizione del campione:
 Il campione sottoposto a prova era costituito da un tirante di gesso per tiranti in gesso, con le seguenti caratteristiche:

- Campione 1;
- Campione 2;
- Campione 3

Riferimenti normativi:
 La prova è stata eseguita secondo le procedure della norma UNI EN 12443 "Metodi di prova per la resistenza di pull-out per tiranti in gesso"

Il Responsabile
 Dr. Ing. Giancarlo Ferrarini

Il Presidente
 Dr. Ing. Francesco Ajmone

FASCIA PANELS FOR BALCONIES WITH GUARDRAILS

Composed of:
2 fascia panels 58 x 28.5 cm
1 L-shaped edge moulding
15 x 120 cm
h. 6 cm



We are committed to finding solutions that can be considered definitive, capable of protecting the appearance and structure of balconies with guardrails, where the fascias beneath the outer edges are often subject to damage and deterioration. The most frequent cause for this is the inefficiency or total absence of the drip moulding on the protruding tiled or marble edges, allowing water to run unimpeded down the balcony fascias. In just a few years, aided by air pollution, dark stains will appear along the path taken by these water runoffs, and these will inevitably become infiltrations that over time will penetrate the concrete and corrode the internal steel reinforcement structure, causing potential hazardous fractures and unsightly defects, on which repair work must be carried out.

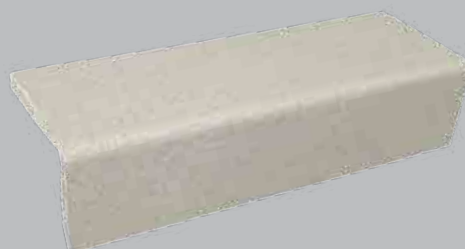
Our solution comes in a KIT: fascia panel + edge moulding.

FOR INFO AND PRICES: commerciale@coprimuro.net



FASCIA MOULDING FOR BALCONIES

Composed of:
L-shaped edge moulding
interior 15 cm
length 118 cm
h. 11 cm



GUARDRAIL KITS

FOR WALL COPINGS IN MARMORESIN®



The kit includes safety railing: guardrail in heavy aluminum, bolts, washers, end caps, threaded rods and wrench 10ø for mounting.

When ordering, attach the design of the balcony walls with outer dimensions and thickness. Indicating if the wall is made in reinforced concrete or bossolo.

What are they for?

Guardrails and parapets have an important function in buildings, preventing occupants against dangerous falls. Children are by nature curious and always eager to explore, and are therefore a category of occupant particularly at risk, as are the elderly, who as they advance in years can suffer impairments of sight and movement, and can be increasingly subject to sudden falls. Solutions can be found to rectify these shortcomings in safety. Guardrails, parapets and handrails are architectural features that can protect people against these risks.

In multi-storey buildings, adequate architectural precautions are necessary to ensure that occupants can use these buildings in total safety.

Legislative requirements:

Safety features like guardrails, parapets and similar elements protecting against falls from raised structures and access to these structures are regulated by legislation and regional laws.

Example:

Safety standards in Emilia Romagna require an extra 1 cm of parapet for every 3 metres of building height, starting from 1 metre, and by the fifth floor the parapet must therefore have a height of 1.05 metres. However, for practical and visual reasons, the most suitable height for all balconies is 1.10 metres.

Guardrail kits for resin marble wall copings are supplied complete with self-locking bolts and washers, threaded bars and an 8 cm box spanner for quick and easy assembly. Threaded bars can be supplied to size.

Twelve colour finishes obtained with industrial coating systems conforming to European standards applicable to painting processes for extruded aluminium profile bars for architectural use. Different colour shades are available on request to satisfy all architectural needs. Made in heavy-duty aluminium.

Products complete with certification.



GUARDRAIL KITS INSTALLATION

Around 80% of all parapets in Italy have heights between 90 and 92 cm, and are not compliant.



As we can see in the photo, even with the extra thickness of a resin marble coping, the maximum height of the parapet reaches only about average waist height.



Guardrail kits are supplied complete with holes.



Use a pencil to mark the point where the hole is to be drilled with a Ø 6 mm drill.



Drill the coping and the wall to a depth of 10 cm.



Clean dust residues out of the hole (even using improvised means if necessary).



Clean hole.



Apply paper masking tape around the hole to help remove excess chemical anchoring compound later.



Insert the nozzle of the chemical anchoring compound into the hole and inject until slightly overfull.



Insert the Ø 6 mm threaded bar already cut to 23 cm.



Position the feet to keep the threaded bars in a vertical position.



Fit the lower rail and check the feet.



Fit the washer and self-locking bolt.



Tighten with a 10 mm box spanner.



Push on the cover and click into place.



Fit the closure plugs supplied to the rail ends.



Check the finished job.



Measure the results to confirm compliance with safety requirements. Nothing could be easier!



KITS ARE SUPPLIED COMPLETE WITH A DECLARATION OF PERFORMANCE DOCUMENT (DOP) AND WITH CERTIFICATION FOR LATERAL IMPACT RESISTANCE PURSUANT TO UNI 10807 AND/OR UNI EN14019 HORIZONTAL IMPACT RESISTANCE ACCORDING TO ITALIAN MINISTERIAL DECREE DATED 14/01/2008 PUBLISHED IN THE ITALIAN OFFICIAL GAZETTE 29 DATED 4/02/2008.



DOP

DECLARATION OF PERFORMANCE

No. 0002 – INT. 10

Company name

Coprimuro.net Srl – 35 Via Raibano – 47853 Coriano (RN) – tel. 0541 658324 – Fax 0541 650259
e-mail: info@coprimuro.net – certified e-mail: coprimuro.net@pec.it
VAT no. 04106140405 – Economic-Administrative Register of Rimini Chamber of Commerce no. 325750

Declaration of performance

Number 0002 aluminium profile dt 55 and 01140611 Technical document for the certification of a product regarding construction components with indicated percentage of recycled material: aluminium profile bars with recycled materials.

1) Unique product identification code: Type UNI EN 12020-2 precision extruded aluminium and aluminium alloy profile bars, in EN AW-6060 and EN AW-6063 alloys, with tolerances of dimension and form.

2) Batch number and type, serial number or any other element permitting identification of the construction product: According to information presented on the label (placed on every single package) pursuant to Article 11, Paragraph 4, precision extruded aluminium and aluminium alloy profile bars for wall coping guardrails 10/15/20.

3) Intended use or uses of the product in accordance with the applicable harmonized standards as envisaged by the manufacturer:
Aluminium profile bars for fitting and other guardrail applications for wall copings 10/15/20 in resin marble.

4) Manufacturer's name or address: Coprimuro.net Srl.

5) Verification and assessment system for performance consistency: 2+.

6) Harmonized standard: EN12020-2 2002.

7) Certification agency: Certiquality Quality Certification Institute – 4 Via Giardino 4 – 20123 Milan.
The agency has carried out an inspection of the factory and its production checks, performs periodic audits as required and has issued certificates of compliance for quality, environmental and safety management nos. 261, 2222 and 14585

8) Declared performance:

Essential characteristics	Performance	Harmonized technical specification
<i>Tolerance in dimensions or tolerance in shape Elongation Tensile strength Unit yield load Impact strength Weldability Durability</i>	See annexes from Chart 1 to Chart 7	EN 122020-2

8) Product performance: Product performance pursuant to points 1 and 2 complies with the performance declared in point 8. This declaration is issued under the sole responsibility of the manufacturer indicated in point 4.

CERTIFICATIONS FOR GUARDAILS KITS



CERTIFICATO DI CONFORMITÀ E LICENZA D'USO DEL MARCHIO DI QUALITÀ ISTITUTO GIORDANO

112/CP/0



Si certifica che il prodotto

KIT RINGHIERA

con denominazione commerciale

Kit ringhiera per coprimuro in marmoresin messa in sicurezza parapetti

fabbricato da

COPRIMURO.NET S.r.l.

Via Raibano, 35 - 47853 CORIANO (RN) - Italia

nell'unità produttiva

Via Raibano, 35 - 47853 CORIANO (RN) - Italia

è stato sottoposto, in conformità ai regolamenti interni dell'Istituto:

- alle prove iniziali di tipo per le caratteristiche e con i risultati illustrati in allegato;
- alla verifica iniziale del controllo della produzione in fabbrica.

Considerato che gli esiti delle verifiche effettuate sono conformi ai requisiti stabiliti nel "Regolamento per il rilascio della certificazione di prodotto e del marchio di qualità" REG-CP e nel D.M. Infrastrutture del 14/01/2008 (tabella 3.1.II), il fabbricante è autorizzato a contrassegnare il suddetto prodotto con il Marchio di Qualità Istituto Giordano.

Le caratteristiche dei prodotti sono riportate in allegato.

Firmato digitalmente da GIORDANO SARA LORENZA

Luogo e data di emissione
Bellaria-Igea Marina - Italia, 04/08/2016

Luogo e data di prima emissione
Bellaria-Igea Marina - Italia, 04/08/2016

Il Direttore Tecnico della Divisione
Certificazione Prodotti
(Dott. Ing. Giuseppe Persano Adorno)

L'Amministratore Delegato
(Dott. Arch. Sara Lorenza Giordano)

Il presente certificato è valido e sottoscritto all'atto positivo delle verifiche periodiche di mantenimento e rinnovo previste nel contratto e nei regolamenti sopra indicati.
Per informazioni puntuali e aggiornate circa eventuali variazioni intervenute nello stato della certificazione di cui al presente certificato,
si prega di contattare il numero +39 0541 343030 / 343030 oppure l'indirizzo e-mail certificazione@giordano.it.
Il presente certificato è composto da n. 2 fogli: questo frontespizio e un allegato.

L'originale del presente documento è costituito da un documento informatico con apposita firma digitale ai sensi del DPR 513/97.

Foglio 1 di 2

ISTITUTO GIORDANO S.p.A. - Via Rossini, 2 - 47814 Bellaria-Igea Marina (RN) - Italia
www.giordano.it - info@giordano.it - PEC: ist-giordano@legalmail.it - tel. +39/0541/343030

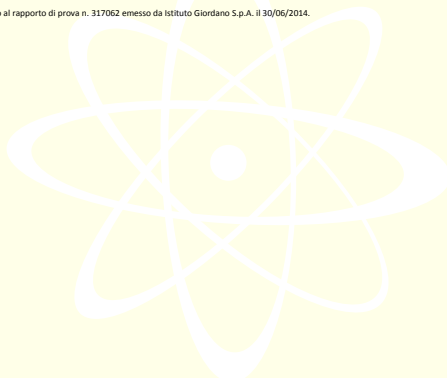


ALLEGATO AL CERTIFICATO 112/CP/0 del 04/08/2016

"KIT RINGHIERA PER COPRIMURO IN MARMORESIN MESSA IN SICUREZZA DEI PARAPETTI"

Prova di laboratorio	Norma di riferimento	Categoria	Esito*
Carico statico orizzontale lineare (H _z)	D.M. Infrastrutture del 14/01/2008 (tabella 3.1.II)	C3 (3,0 kN/m)	Conforme

(*): riferimento al rapporto di prova n. 317062 emesso da Istituto Giordano S.p.A. il 30/06/2014.



Foglio 2 di 2

ISTITUTO GIORDANO S.p.A. - Via Rossini, 2 - 47814 Bellaria-Igea Marina (RN) - Italia
www.giordano.it - info@giordano.it - PEC: ist-giordano@legalmail.it - tel. +39/0541/343030

CERTIFICATIONS FOR GUARDRAIL KITS





**ISTITUTO
GIORDANO**

Istituto Giordano S.p.A.
Via Poerio 1, 47034 Bellaria-Igea Marina (RN) - Italia
Tel. +39 0541 340001 - Fax. +39 0541 310001
E-mail: info@giordano.it - www.giordano.it
Cassa di Risparmio di Bellaria Igea Marina (C.R. Bellaria Igea Marina S.p.A.)
P.I. 01500000400 - R.G. 01500000400
R.G. 01500000400 - R.G. 01500000400
R.G. 01500000400 - R.G. 01500000400

RAPPORTO DI PROVA N. 317062

Luogo e data di emissione: Bellaria-Igea Marina - Italia, 30/06/2014

Committente: COPRIMURO.NET S.r.l. - Via Raibano, 35 - 47853 CORIANO (RN) - Italia

Data della richiesta della prova: 12/06/2014

Numero e data della commessa: 63477, 17/06/2014

Data del ricevimento del campione: 17/06/2014

Data dell'esecuzione della prova: 27/06/2014

Oggetto della prova: resistenza al carico statico orizzontale lineare secondo il D.M. Infrastrutture del 14/01/2008 e UNI 10806:1999 di ringhiera per la messa in sicurezza dei parapetti

Luogo della prova: Istituto Giordano S.p.A. - Via Erbosa, 72 - 47043 Gatteo (FC) - Italia

Provenienza del campione: campionato e fornito dal Committente

Identificazione del campione in accettazione: n. 2014/1234

Denominazione del campione*.

Il campione sottoposto a prova è denominato "KIT RINGHIERA PER COPRIMURO IN MARMORESIN MESSA IN SICUREZZA DEI PARAPETTI".

Descrizione del campione*.


Il campione sottoposto a prova è costituito da n. 2 tipologie di kit ringhiera per coprimuro in resina di marmo per la messa in sicurezza dei parapetti. Il kit ha la funzione di colmare i centimetri mancanti dei parapetti come

(*) secondo le dichiarazioni del Committente

Comp. MB	Il presente rapporto di prova è composto da n. 6 fogli.	Foglio n. 1 di 6
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* ILLUMINAR - Il presente rapporto di prova è elaborato e redatto in formato digitale e stampato su carta a 100 g/m² per essere archiviato elettronicamente, con approvazione della Direzione Generale.

(Rapporto di prova n. 317062 del 30/06/2014) segue - foglio n. 2 di 6



**ISTITUTO
GIORDANO**


richiesto dalle normative vigenti. Il kit è formato da tre profili in alluminio pesante: un profilo funge da corrimano, un profilo funziona da cover del corrimano, il terzo profilo funge da piede di appoggio con predisposizione all'innesto di un freno per il passaggio delle barre filettate.

Ciascuna tipologia di kit ha le seguenti caratteristiche dimensionali:

- larghezza d'ingombro misurata = 500 mm;
- altezza utile misurata = 950 mm.

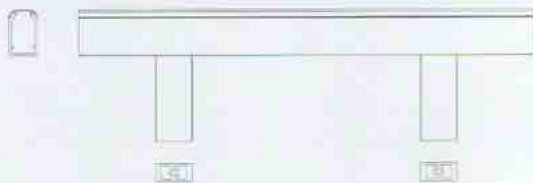
Le due tipologie differiscono per la barra filettata interna utilizzata per l'adesivimento murario (innegata con ancorante chimico per 100 mm e fissata al corrimano con rondelle e bulloni bloccanti), secondo le caratteristiche riportate nella seguente tabella:

Tipologia	Colorazione	Diámetro barra filettata interna [mm]	Lunghezza barra filettata interna [mm]
allestimento A	marone	6	250
allestimento B	grigio	8	250

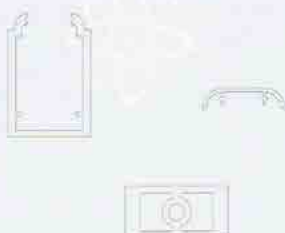


Fotografia del campione.

DISEGNO SCHEMATICO DI UN KIT



SEZIONE DEI PROFILI



Riferimenti normativi.

La prova è stata eseguita secondo le prescrizioni dei seguenti documenti:

- paragrafo 3.1.4. "Carichi variabili" del D.M. Infrastrutture del 14/01/2008 "Norme Tecniche per le costruzioni", pubblicato nel Supplemento ordinario alla Gazzetta Ufficiale n. 29 del 04/01/2008 - Serie Generale;
- norma UNI 10806:1999 del 31/01/1999 "Ringhiera, balaustra o parapeti prefabbricati - Determinazione della resistenza meccanica ai carichi statici distribuiti".

Apparecchiatura di prova.

Per l'esecuzione della prova è stata utilizzata la seguente apparecchiatura:

- serie di masse in acciaio per le prove di carico statico;
- n. 2 comparatori elettronici della ditta Mitutoyo corredati di rapporti di taratura emesso da Istituto Giordano S.p.A.;
- cella di carico della ditta AEP da 100 kg (codice di identificazione interna dell'apparecchiatura: ED063);
- bidella metrica;
- metro digitale della ditta Mitutoyo (codice di identificazione interna dell'apparecchiatura: PT384).

Modalità della prova.

La prova è stata eseguita secondo il metodo di prova previsto dalla norma UNI 10806:1999, ma utilizzando i valori di carico alla tabella 3.1.II "Valori dei carichi d'esercizio per le diverse categorie di edifici" del D.M. Infrastrutture del 14/01/2008.

Il campione, montato su una porzione di muratura, è stato fissato inferiormente e lateralmente al banco prova a simulare le reali condizioni di posa in opera.

Sulla mazzetta di ogni ringhiera è stato posizionato un comparatore in modo da leggere lo spostamento relativo del bordo superiore del corrimano, e stato sottoposto a carico statico orizzontale lineare ripartito di 3,0 kN/m sul bordo superiore del corrimano.

È stato applicato un precarico in maniera progressiva, in direzione orizzontale verso l'esterno, pari al 50 % del carico previsto per la prova pari a 1,5 kN/m mantenendolo per 5 min.

Dopo la rimozione del precarico, i comparatori sono stati azzerati e si è proceduto all'applicazione del carico di prova in maniera progressiva, con un tempo per intervallo ≥ 5 s.

Al raggiungimento del carico di prova esso è stato mantenuto per almeno 15 min registrando poi le deformazioni sotto carico, dopo di che si è proceduto a rimuovere progressivamente il carico sino a zero. Dopo una attesa di almeno 5 min sono state rilevate le deformazioni residue.

In particolare è stata eseguita la seguente sequenza di prove:

- precarico pari al 50 % del carico previsto pari a 1,5 kN/m;
- rimozione del precarico e azzeramento dei comparatori;
- carico pari a 3,0 kN/m per 15 min e registrazione delle deformazioni;
- rimozione del carico e registrazione delle deformazioni residue dopo 5 min.

Condizioni ambientali al momento della prova.

Temperatura ambiente	(24 ± 3) °C
Umidità relativa	(50 ± 5) %

Risultati della prova.

Tipologia	Carico unitario [kN/m]	Carico totale [kN]	Deformazione sotto carico [mm]	Deformazione residua [mm]	Risultato
Allestimento A	3,0	1,5	10,0	2,7	nessuna lesione
Allestimento B	3,0	1,5	4,4	0,3	nessuna lesione



Fotografie del campione durante la prova.

Conclusioni.

In base alla prova eseguita, in base ai risultati ottenuti ed in base a quanto indicato nel D.M. Infrastrutture del 14/01/2008 e nella norma UNI 10806:1999, il campione in esame, costituito da kit ringhiera per coprimuro, denominato "KIT RINGHIERA PER COPRIMURO IN MARMORE SIN MESSA IN SICUREZZA DEI PARAPETTI" e presentato dalla ditta COPRIMURO.NET S.r.l. - Via Raibano, 35 - 47853 CORIANO (RN) - Italia, ottenne i risultati riportati nella seguente tabella.

Prova	Norma di riferimento	Requisito	Esito
Carico statico orizzontale lineare	D.M. Infrastrutture del 14/01/2008 (tabella 3.1.II)	3,0 kN/m	Conforme

I risultati riportati si riferiscono al solo campione provato e sono validi solo nelle condizioni in cui la prova è stata effettuata.

Il presente rapporto di prova, da solo, non può essere considerato un certificato di conformità.

Il Responsabile
Tecnico di Prova
(Dott. Andrea Bruschi)

Il Responsabile del
Laboratorio di Edilizia
(Dott. Andrea Bruschi)

L'Amministratore Delegato
(Dott. Arch. Sara Lorenza Giordano)

Andrea Bruschi

Andrea Bruschi

Sara Lorenza Giordano

Firmato digitalmente da GIORDANO SARA LORENZA

SAFETY INFORMATION SHEET

Coprimuro.net[®] pursuant to Legislative Decree 81

SAFETY INFORMATION SHEET

Prepared pursuant to legislative Decrees 52 dated 3 February 1997 and 95 dated 14 March 2003 and subsequent amendments as requested by Legislative Decree 81 dated 9 April 2008 (replacing Legislative Decree 626/94) Safety sheet compilation date: 21/12/2012

1. Identification of substance/compound and company

1.1 Identification of compound: MarmoEdile wall coping in resin marble.

1.2 Use of compound:

Copings for protection of walls and parapets.

1.3 Identification of company: Coprimuro.net 35 Via Raibano 47853 Coriano di Rimini

1.4 Telephone number for urgent calls to company:

+39 0541 658324

2. Composition/information on ingredients:

Marmoresin[®] base for wall copings/windowsill covers s a mixture of marble dust and grains bound with polyester resins, pursuant to UNI 10330 (UNI EN 141618:2005) standards for agglomerated stone products made with an industrial procedure that ensures an irreversible bond between stone-based elements of various types and sizes. Substances known not to damage the ozone layer.

3. Identification of hazards:

Resin marble is combustible in combination with a large quantity of heat and oxygen, and it must therefore not be exposed to naked flames. It is however made with a self-extinguishing formulation that presents the spread of flames in well-defined combustion tests.

4. First aid measures:

Contact with skin or eyes:

No special measures, except during cutting, drilling and similar operations, when it is sufficient to use a facemask to protect against inhaling dust.

In case of fire:

When combustion gases are breathed in: Recommended measures are fresh air, coffee and artificial respiration if necessary. Seek medical assistance at once. In case of headaches and vomiting, seek medical assistance. In case of contact of the skin with the burnt product, cool the affected area with cold water. In case of second-degree or third-degree burns, seek medical assistance.

5. Fire prevention

Suitable extinguishing agents:

- Water sprays
- Foam
- Carbon dioxide
- Use breathing equipment in closed areas
- Avoid dense smoke and do not breathe combustion gases.

6. Handling and storage

6.1 Handling: Treat the material with the due care and precautions suggested by common sense.

6.2 Storage: Treat the material with the due care and precautions suggested by common sense.

Ensure that there is sufficient distance between pallets as a safety measure. Never expose the material to flames.

7. Personal protection/limitation of exposure

- Protection of respiratory system: To protect against smoke and dust, use suitable breathing equipment only in production areas that are not ventilated.

- Protection of hands: Wear safety gloves only during cutting, drilling or similar operations.

- Protection of eyes: Wear safety masks or spectacles during cutting, drilling and similar operations and during production.

- Protection of body: Wear clothing and footwear that protect the body during production procedures or during heat processes.

This information sheet has been compiled on the basis of figures obtained from production.

8. Physical and chemical properties

External appearance: Rigid, single block in the shape of an inverted U, in an ample range of colours. Odour: Odourless.

Risk of explosion: None.

Solubility in water: Insoluble.

Solubility in organic solvents: Insoluble

9. Reactive stability

Determination of resistance to freezing: No visible alteration.

(+15°C/-15°C cycles)

Water absorption: No alteration in weight.

Resistance to accelerated ageing: No structural or dimensional deterioration is noted.

Determination of thermal expansion: Ambient temperature 18°C/maximum test temperature 100°C. Result: A slight expansion of the product is noted.

10. Toxicological information

The material is considered to be toxicologically inert. Resin marble is included in a category of products that are not hazardous in normal use and in case of contact with the skin.

Toxicological trials carried out (according to FHSA 16 CFR part 1500) on:

- primary skin irritation
- oral toxicity
- irritation of the eyes

12. Ecological information

To be treated ecologically as:

Considered equivalent to marble wastes, waste code 010413 mixed construction and demolition wastes to be selected.

12.1 May harm the marine environment.

13. Observations on disposal Reuse: None Recycling: None

Disposal: Landfill sites

14. Transport information

No limitations on transport.

No classification is required under these regulations:

- ADR-GGVS (HIGHWAYS)
- RID-GGVE (RAILWAYS)
- IMDG-GGVS (MARITIME)
- ICAO-IATA-DGR (AVIATION)

15. Regulatory information

No limitations with regard to classification, packaging and identification. No limitations regarding attention to health and the environment.

16. Other information

For further information call Coprimuro.net®.

OTHER PRODUCTS





GENERAL WARNINGS

The indications given are the result of our best experience, but nevertheless they are merely indications.

Users must determine if the product is suitable for the intended use, assuming all liability deriving from the use of the product.

The technical information presented in this catalogue replaces the information presented in previous editions.

For further information with prompt updates please visit our websites:

www.coprimuro.net

For further information on the products of the MarmoEdile range, we advise you to read the manual and guide for the installation of wall copings in Marmoresin®, distributed free by Coprimuro.net®.

GLOSSARY

Expansion: Thermal expansion is a physical phenomenon that occurs when a body (liquid – gaseous – solid) increases in volume when the temperature increases.

Drip moulding: A feature that keeps drops of runoff water away from walls.

Expansion joint: This is the space left between two components to absorb thermal expansion.

Marmoresin®: Mixture of marble dust and polyester resins.

Ceramic-coated: A coating made from mixtures.

Coping: Protection for parapets and walls.

Windowsill: Ledge in front of a window.

Rubber strip: Strip of rubber.

Coating adhesive: Powder product to be diluted with latex for use as a tile adhesive.

Rubber latex: A liquid containing synthetic polymers to improve the adherence of cement mortars or adhesives.

Paper masking tape: Adhesive tape used above all by painters and decorators.

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