profilitec
positive profile

Datasheet

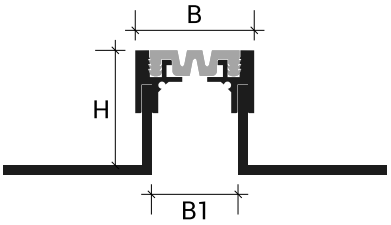
JOINTEC GM - GML

PRODUCT DESCRIPTION

JOINTEC GM profiles are modular expansion joints that can be adapted to various heights. They are composed of aluminum, brass or stainless steel modules available in three different sizes that stack upon twin aluminum anchoring flanges. A central, synthetic rubber insert joins the two sides of the profile. Designed to bear loads of large scale buildings or building compounds, they can be installed in the interstitial space between two sections of a building or between two bays. This technical joint links these interspaces, moving horizontally and vertically to accommodate a building's structural and material settlement. The structural bays defined by this profile should be further subdivided with smaller scale movement / expansion joints, chosen according to the expected use and flooring type.

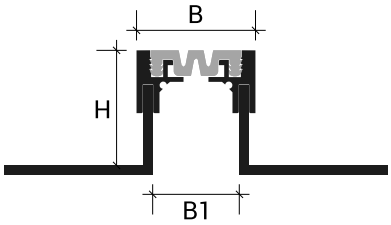
TECHNICAL FEATURES

Length: 3,00 meters



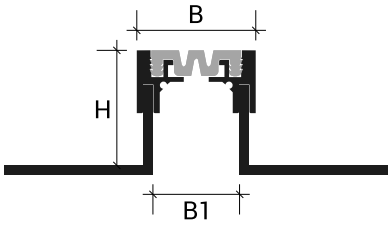
Stainless Steel + Base Alu. + Insert Resinprene

GM mounts the GI370 insert:
B = 50 mm
B1 = 38 mm
GML mounts the GI470 insert:
B = 60 mm
B1 = 48 mm



Natural Aluminum + Insert Resinprene

GM mounts the GI370 insert:
B = 50 mm
B1 = 38 mm
GML mounts the GI470 insert:
B = 60 mm
B1 = 48 mm

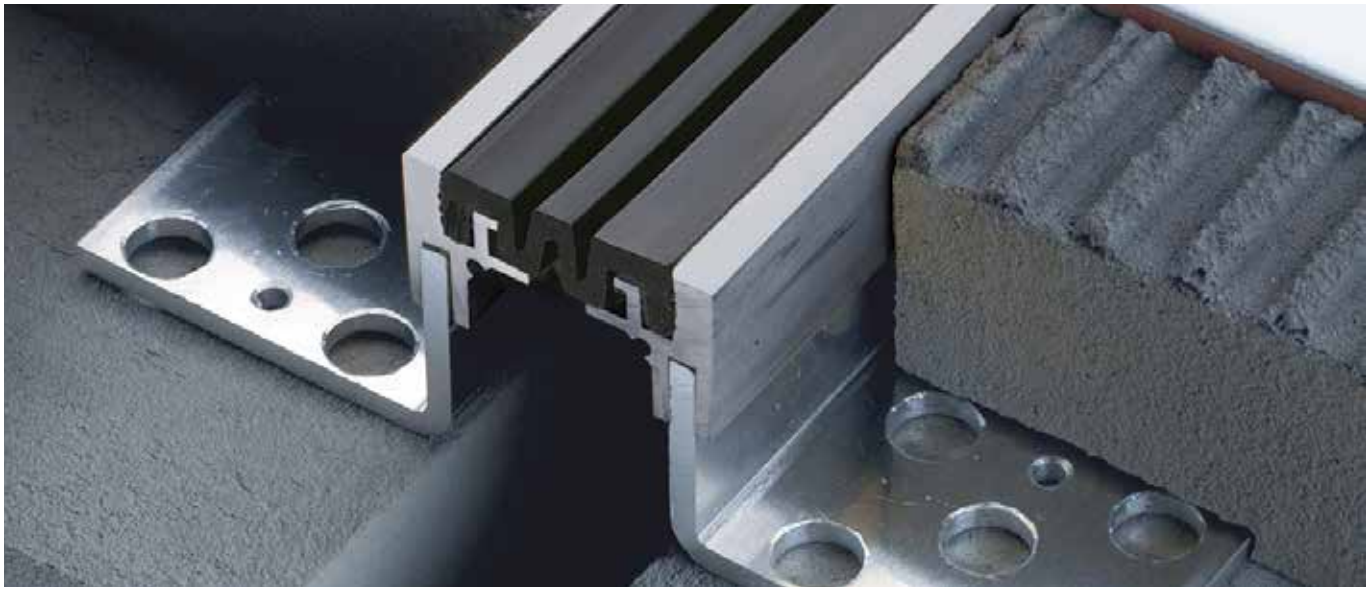


Brass + Base Alu. + Insert Resinprene

GM mounts the GI370 insert:
B = 50 mm
H1 = 38 mm
GML mounts the GI470 insert:
B = 60 mm
H1 = 48 mm

IL23= IL + P23
IL51= IL + P51

The GM and GML series can be manufactured in all screed heights.



MATERIAL DESCRIPTION

Stainless Steel + Aluminum Base + Resinprene Insert
Steel profiles are made by cold forming sheets of constant thickness, thus differing from the corresponding aluminum and brass versions made by hot extrusion, while maintaining their application and dimensional characteristics. Stainless steel effectively resists high mechanical stress and is particularly suitable for use in the chemical, food, and hospital sectors, where hygiene, durability, and chemical resistance are essential. Normally produced with a semi-gloss finish, a brushed finish can also be achieved by partially removing material using rotating nylon and quartz fiber brushes. This process gives the surface a matte appearance without altering its characteristics.

AISI 304 STAINLESS STEEL - EN X 5 CrNi 18 10 - DIN 1.4301:
This steel belongs to the AUSTENITIC category and is the most widespread and commonly used alloy for products requiring high technical and performance characteristics. It is highly resistant to most chemical agents but may stain or darken superficially; a standard polishing product is sufficient to restore its original appearance.

RESINPRENE Vulcanized rubber:
Resinprene vulcanized rubber is a modified compound based on EPDM and NEOPRENE whose particular characteristics we highlight:
Optimal mechanical properties in an operating temperature range from –40 °C to + 150 °C
Resistance to aqueous fluids, oils, and hydrocarbons. Low permanent deformation in compression and tension. Excellent resistance to aging. Exceptional resistance to dynamic fatigue and tearing. The intrinsic characteristics of the material make it particularly suitable for the production of profiles requiring high performance over time, both indoors and outdoors.


IL


P23


P51

jointec >> GM in Stainless Steel AISI 304 + Base Aluminum + Insert Resinprene		
Item	**H mm**	**Finish**
GM350IL23300	35	IL23 - Cement Grey
GM500IL23300	50	IL23 - Cement Grey
GM750IL23300	75	IL23 - Cement Grey
GM350IL51300	35	IL51 - Black
GM500IL51300	50	IL51 - Black
GM750IL51300	75	IL51 - Black

jointec >> GML in Stainless Steel AISI 304 + Base Aluminum + Insert Resinprene		
Item	**H mm**	**Finish**
GML350IL23300	35	IL23 - Cement Grey
GML500IL23300	50	IL23 - Cement Grey
GML750IL23300	75	IL23 - Cement Grey
GML350IL51300	35	IL51 - Black
GML500IL51300	50	IL51 - Black
GML750IL51300	75	IL51 - Black

23/12/25

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MATERIAL DESCRIPTION

Aluminum + Resinprene Insert
The primary aluminum alloy EN AW-6060 in T6 temper is suitable for complex extrusions, offering high strength and an excellent natural surface finish that lends itself well to subsequent finishing processes.

RESINPRENE Vulcanized rubber:
Resinprene vulcanized rubber is a modified compound based on EPDM and NEOPRENE whose particular characteristics we highlight:
Optimal mechanical properties in an operating temperature range from –40 °C to + 150 °C
Resistance to aqueous fluids, oils, and hydrocarbons. Low permanent deformation in compression and tension. Excellent resistance to aging. Exceptional resistance to dynamic fatigue and tearing. The intrinsic characteristics of the material make it particularly suitable for the production of profiles requiring high performance over time, both indoors and outdoors.


AN


P23


P51

jointec >> GM in Natural Aluminum + Insert Resinprene		
Item	**H mm**	**Finish**
GM350AN23300	35	A23 - Cement Grey
GM500AN23300	50	A23 - Cement Grey
GM750AN23300	75	A23 - Cement Grey
GM350AN51300	35	A51 - Black
GM500AN51300	50	A51 - Black
GM750AN51300	75	A51 - Black

jointec >> GML in Natural Aluminum + Insert Resinprene		
Item	**H mm**	**Finish**
GML350AN23300	35	A23 - Cement Grey
GML500AN23300	50	A23 - Cement Grey
GML750AN23300	75	A23 - Cement Grey
GML350AN51300	35	A51 - Black
GML500AN51300	50	A51 - Black
GML750AN51300	75	A51 - Black

MATERIAL DESCRIPTION

Brass + Aluminum Base + Resinprene Insert
Profiles made from CW618N (EN 12167) brass alloy are characterized by high resistance to mechanical stress, making them particularly suitable for heavy-traffic applications, such as industrial settings and at expansion joints.
Brass is resistant to most chemical agents commonly encountered during the installation of ceramic coverings. However, in the presence of humidity or aggressive substances, the surface may develop superficial oxidation, which can be removed using a standard polishing product.
These profiles can be manufactured through either hot extrusion or cold forming from sheets of constant thickness.

RESINPRENE Vulcanized rubber:
Resinprene vulcanized rubber is a modified compound based on EPDM and NEOPRENE whose particular characteristics we highlight:
Optimal mechanical properties in an operating temperature range from –40 °C to + 150 °C
Resistance to aqueous fluids, oils, and hydrocarbons. Low permanent deformation in compression and tension. Excellent resistance to aging. Exceptional resistance to dynamic fatigue and tearing. The intrinsic characteristics of the material make it particularly suitable for the production of profiles requiring high performance over time, both indoors and outdoors.


ON


P23


P51

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jointec >> GM in Brass + Base Aluminum + Insert Resinprene		
Item	**H mm**	**Finish**
GM350ON23300	35	ON23 - Cement Grey
GM750ON23300	75	ON23 - Cement Grey
GM350ON51300	35	ON51 - Black
GM500ON51300	50	ON51 - Black
GM750ON51300	75	ON51 - Black

jointec >> GML in Brass + Base Aluminum + Insert Resinprene		
Item	**H mm**	**Finish**
GML350ON23300	35	ON23 - Cement Grey
GML500ON23300	50	ON23 - Cement Grey
GML750ON23300	75	ON23 - Cement Grey
GML350ON51300	35	ON51 - Black
GML500ON51300	50	ON51 - Black
GML750ON51300	75	ON51 - Black

APPLICATION

1. Choose the profile according to the loads and expansion to which it will be subjected. If necessary, level the subfloor using a layer of plastic mortar with a width of 10 cm approx. Calculating in advance that when the laying is completed the joint will be perfectly flush with the finished floor;
2. Spread the adhesive in the profile application area with the help of a notched trowel;
3. Cut the profile to the required length;
4. Align the joint, checking that it is perfectly linear. If present, fix the wings to the substrate using mechanical or chemical expansion plugs sized according to the loads and characteristics of the substrate;
5. Fixing must be carried out in parallel on both sides of the profile, positioning, if required, a plug every 30 cm, using the external holes alternately between the two fixing wings;
6. If necessary, depending on the type of wall covering material, a 3 to 5 mm elastic seal between the final edge of the wall covering and the profile is recommended.

N.B.: Aluminum profiles offer limited resistance to alkaline substances, so their use must be evaluated according to the expected chemical aggressions. Aluminum profiles in contact with cementitious substances can be attacked by corrosion processes, so residues of adhesives and sealants used must be removed immediately.When laying, the right amount of adhesive must be used and the right drying times observed, avoiding creating cavities in which water can stagnate, which would lead to the formation of alkaline substances (aluminum hydroxide) and trigger corrosive electrolytic phenomena.

WARNINGS

These profiles must be handled with care, taking care to use cut-resistant gloves. The instructions and requirements contained herein, while based on our experience, are to be considered purely indicative and must be confirmed by exhaustive practical applications. Profilitec declines all responsibility for any damage to persons or property resulting from improper use of the product. The user is responsible for determining whether or not the product is suitable for use and assumes all responsibility for any damage resulting from incorrect installation of the material.

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CLEANING AND MAINTENANCE

STAINLESS STEEL:
Stainless steel is easy to clean and very hygienic because of its smooth, nonporous surface, which hinders the growth of bacteria. To keep it in good condition, simply wash it with warm soapy water, rinse it thoroughly and dry it with a soft cloth. If exposed to weathering, periodic cleaning is recommended to prevent corrosion. Brushed surfaces should be cleaned in the direction of brushing. In case of scratches, a specific polish can be used with a soft cloth.
Avoid cleaning agents containing hydrochloric acid, hydrofluoric acid or bleach, as well as abrasive products. Do not leave ordinary steel objects in contact with stainless steel to prevent contamination and rust stains. Also, do not leave damp patches or sponges on the surface to prevent water halos.

ALUMINIUM:
Aluminum requires no special maintenance.
For cleaning, use colorless alcohol diluted in water or neutral detergents, avoiding acidic ones (e.g., hydrochloric or hydrofluoric acid); use non-abrasive sponges or cloths to avoid damage. We recommend not applying cleaners directly to surfaces. After cleaning, rinse with water and dry immediately with a soft cloth. Avoid polishes. Quickly remove residual cement or grout to protect the surface.

BRASS:
Brass does not require special maintenance and is easily cleaned with alcohol diluted in water or with neutral detergents, avoiding those with an acidic base.
It is recommended to use water with mild detergents, ensuring the final rinse is with water only. To avoid scratches, use exclusively non-abrasive cloths or sponges. For maintenance, common polishes available on the market can be used.

BILL OF QUANTITIES ITEM

Supply and installation of profile in _____ (material), with finish _____ _____ (see Material Description section) of characteristic size _____ mm, equipped with a wide perforated base which facilitates perfect fixing and a safe surface suitable for pedestrian and vehicular passage with replaceable rubber insert.
Family type _____ from the Profilitec company as a load-bearing structural joint to be used on floors between semi-attached parts of buildings or between different spans, to be supplied and installed according to the rules of the art, respecting the methods and fields of application indicated by the manufacturer.

Profile length: 4000 mm
Profile SKU: _____
Material: _____ €/m
Installation: _____ €/m
Totale price: _____ €/m

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