

Technical Datasheet - Expansion Joints

Stainless Steel Heavy Duty Compression Joint - MHS

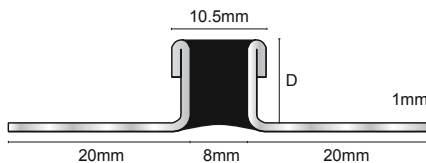
Product Description

Genesis MHS is a Heavy Duty Stainless Steel Movement Joint providing heavy duty protection to the edge of the floor covering and a hygienic environment.

Dimensions and Colour

Available in 2.5m lengths and 10mm, 12mm, 15mm and 22.5mm depths

Range



Chemical Composition

Stainless Steel AISI 304 / DIN1.4301 Surface BA1

C%	0.08
Mn%	2.0
Si%	0.75
P%	0.045
S%	0.03
Cr%	18-20
Ni%	10.5
N%	0.1 Max

Test Data

Strength Test	
Point Loading	154N
Compression @ 20%	140N
Compression @ 30%	226N
Extension @ 20%	77N
Extension @ 30%	102N
Shear resistance @ 5mm	83N

Performance

British Standard BS 5385 recommends that a Joint should be able to absorb 20% of the width of the Joint in movement accommodation; these Joints far surpass the minimum requirement. The movement Joints fit this criteria for expansion and compression on a lateral basis.

Where to use Movement Joints

Movement Joints must be installed in certain areas and positions to prevent tiles debonding from the Substrate, industry guidelines suggest that the maximum field should be no more than 10m in each direction but in practice, depending on the individual applications it tends to be between 5-8m.

British Standards (BS) 5385 covers the requirements and methods for movement joints applications. Part 3: 1989-Section 3-19.1.1 states the building designer should assess the magnitude of any stresses and decide where movement joints should be located taking into consideration all the relevant factors.

Movement Joints must be installed directly above any changes in substrate or movement joints/Gaps in the substrate.

Maintenance

Stainless steel is a corrosion resistant chromium/nickel alloy steel that is strong and durable with excellent lustre. However, it is not rustproof, particularly in the harsh environment of a swimming pool. Chlorine and bromine used for sanitization are highly caustic chemicals for stainless steel and heat

and humidity enhance the corrosiveness of these chemicals. Regular cleaning is the best way to prevent corrosion and add to the service life for your profiles and any other stainless steel equipment. The goal of your cleaning and maintenance program should be to keep the stainless steels protective Chromium oxide layer intact. This is what prevents corrosion. Varying Stages of contamination.

Installation

1. Ensure the correct Depth of Profile is selected according to the tile depth.
2. Using a suitable Notched Trowel spread Tile Adhesive onto the floor in accordance with the manufacturers guidelines.
3. Firmly bed the adhesive into the adhesive in the correct location - make sure that the adhesive penetrates the holes in the flange.
4. Spread the adhesive over the the anchoring legs and bed the tiles firmly into the adhesive (best practice is for the profile to be approximately 1mm lower than the Tile).
5. A grout joint should be left between the tile and the profile.

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