



Reliance

MOVEMENT CONTROL JOINT SYSTEM

MOVEMENT CONTROL JOINT

A Movement Control Joint is an assembly designed to safely absorb the temperature-induced expansion and contraction of construction materials, to absorb vibration, to hold parts together, or to allow movement due to ground settlement or earthquakes.

In building construction, an expansion joint is a mid-structure separation designed to relieve stress on construction materials occurred by building movement due to:

- Thermal Expansion & Contraction because of the change in temperature within the structure.
- Building sway caused by strong winds
- Seismic events
- Settlement in structure.

Movement Control Joint Systems are used to bridge the gap and restore building assembly functions while accommodating expected movements.

The term "Movement Control Joint" has been widely adopted in preference to "Expansion Joint" as it is more appropriately encompasses the fact that building movement results in both compression and expansion of materials installed.

Movement Control Joints are ideally installed for both Indoor & out door application, in all types of hard flooring areas, like ceramics paving, granite, marble, wood and all mortar laid floors etc.

Movement Joints are recommended to be provided for any one or more of the following minimum conditions.

- When the floor plan size exceeds 200 feet in any direction.
- For structural expansion or contraction joints
- Where the deck material changes, for example from steel to concrete
- Where building wings intersect, such as "U", "T", or "L" shapes
- Where interior heating and cooling conditions change.
- At all building additions of any shape

Movement Control Joints are typically used in concrete masonry to reduce the occurrence of shrinkage-related cracking. An Expansion Joint is a continuous vertical or horizontal joint filled with mortar, but with a bond breaker on one side so that tensile stress cannot develop across the joint. If expansion joints are not provided, a concrete masonry wall or floor may crack as it shrinks over a period of time. Where expansion joints are provided in such a wall or floors, they widen as the concrete masonry shrinks, preventing it from cracking.

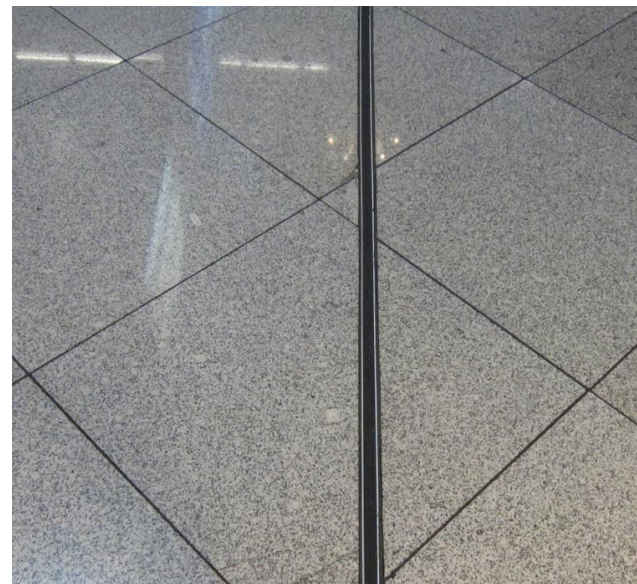
MATERIAL USED

The Movement Control Joint profile metallic part is made of the base metals like, Aluminum (Mill Finish / Anodized) Stainless Steel (304/316 Grade) and Brass.

The Movement Joint profile insert part is made of various materials like, EPDM, Neoprene, Vinyl Elastomer.

Movement Joint materials are selected as per the project specific requirements and specifications.

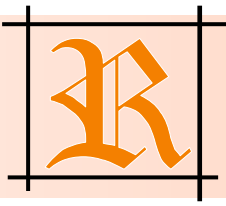
* Customized movement joints can be produced upon request.



RELIANCE RUBBER & PLASTIC INDUSTRIES LLC

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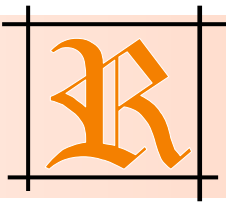
TECHNICAL SPECIFICATION

ALUMINIUM ALLOY.

Description	Alloy of Aluminium.
Aluminum designation	6063
European standard	EN 373-3, EN485-1,2,4; EN15088
European Standards Name	EN AW-1050
UNS number	A91050
Temper	T6 & T4

Composition			
Magnesium (Mg)	0.45 – 0.90%	Copper (Cu)	0.10%
Silicon (Si)	0.20 – 0.60 %	Manganese (Mn)	0.10%
Chromium(Cr)	0.10%	Titanium (Ti)	0.10%
Zinc (Zn)	0.10%	Other Impurities	0.05%
Iron (Fe)	0.35%	Aluminums	Remainder

Material Properties.	
Density	2.7g/cm ³
Melting Temperature	650 ° C
Tensile Strength	200 – 220 MPa
Elongation at Break	8.0 to 10%
Corrosion Resistance	According to EN ISO 365 1/2 - A



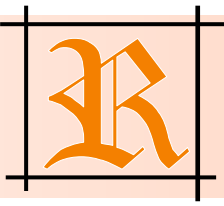
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TECHNICAL SPECIFICATION - INSERT

PROPERTIES:		
	Ethylene Propylene Diene Monomer	Vinyl Elastomer
Green Material	No	Yes
Hardness Range (Shore A)	65 ±5	65 ±5
Colors	Black	Wide Range
High Temperature	150 °C	80 °C
Low Temperature	-50 °C	-30 °C
Tensile Strength at Break	8 N/mm ²	11.5 ± 2 N/mm ²
Elongation at Break	500 %	> 325 %
Specific Gravity	1.3 ±0.1	1.3 ±0.02
Taber Abrasion Resistance	Good	Good
Ozone Resistance	No	Good
UV Resistance	Good	Excellent
Hazardous Substances	None	Lead Free
Chemical Resistance	Good	Very Good
Compression Set	Good	Good
Resilience	Good	Excellent
Electrical Strength	Good	Good
Water Absorption	Excellent	Excellent

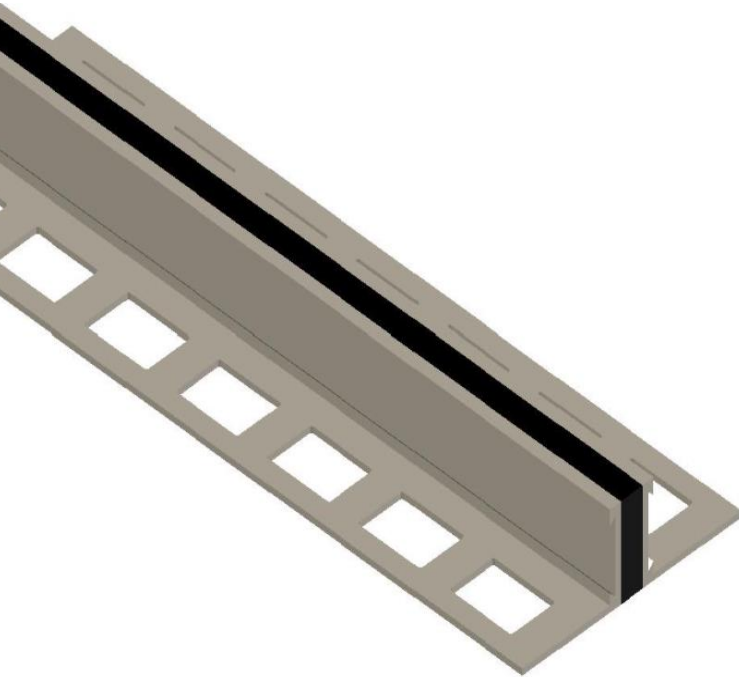
- As part of continuous improvement, the company has the right to modify or change the product design & specification in order to enhance the product quality without prior notice to its customers. All drawing & images given in our product catalogue are for reference purpose only.



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MOVEMENT CONTROL JOINT SYSTEM

MOVEMENT CONTROL JOINTS



Features

- ✓ Created for setting ceramic flooring
- ✓ Fit for heavy pedestrian traffic with pallet trucks
- ✓ Insert covers entire joint height
- ✓ High resistance against chemicals
- ✓ Slim visible surface
- ✓ Suitable for large surfaces
- ✓ Smoothed surface for better connection with adjacent flooring
- ✓ Suitable for subsequent grinding

10 mm Wide Movement Control Joint – L TYPE

Product Code				
Aluminium	Stainless Steel 304	Stainless Steel 316	Brass	Overall Height (H)
-	RJ 3002	RJ 4002	RJ 5002	8mm
RJ 2003	RJ 3004	RJ 4004	RJ 5004	10mm
RJ 2004	RJ 3006	RJ 4006	RJ 5006	12.5mm
RJ 2005	RJ 3008	RJ 4008	RJ 5008	15mm
RJ 2006	RJ 3012	RJ 4012	RJ 5012	20mm
RJ 2007	RJ 3014	RJ 4014	RJ 5014	25mm
RJ 2009	RJ 3015	RJ 4015	RJ 5015	30mm

Material Selection:

Movement Control Joints are available in mill finish aluminum, anodized aluminum, stainless steel and brass depending on the chemical, mechanical, electro-chemical or any other load to which the floor could be exposed.

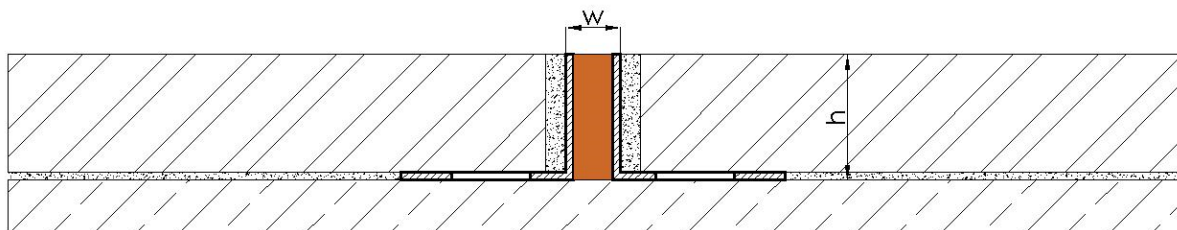
- Aluminum profiles are recommended for the common places and are not exposed to heavy chemical stress. Ideal for warehouses, airport, shopping malls, public buildings, hotels etc.
- Stainless Steel and Brass profiles are recommended for the areas which are apart from the mechanical loads, exposed to high chemical stress like acid, strong detergents. It is also ideal for hygiene required and wet floor areas.

Insert available in EPDM, Neoprene, Vinyl Elastomer according to project requirements.

Insert Color: EPDM – Black;

Vinyl Elastomer – Wide Range of Colors.

Note: Customized movement joints can be produced upon request.



Maintenance:

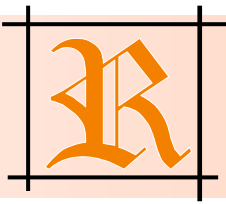
Movement control joints do not require any specific maintenance. They can be cleaned using normal cleaning products provided that they do not contain hydrochloric or hydrofluoric acid and are not abrasive.

* Visuals are for the demonstration purpose only and may differ from the actual products

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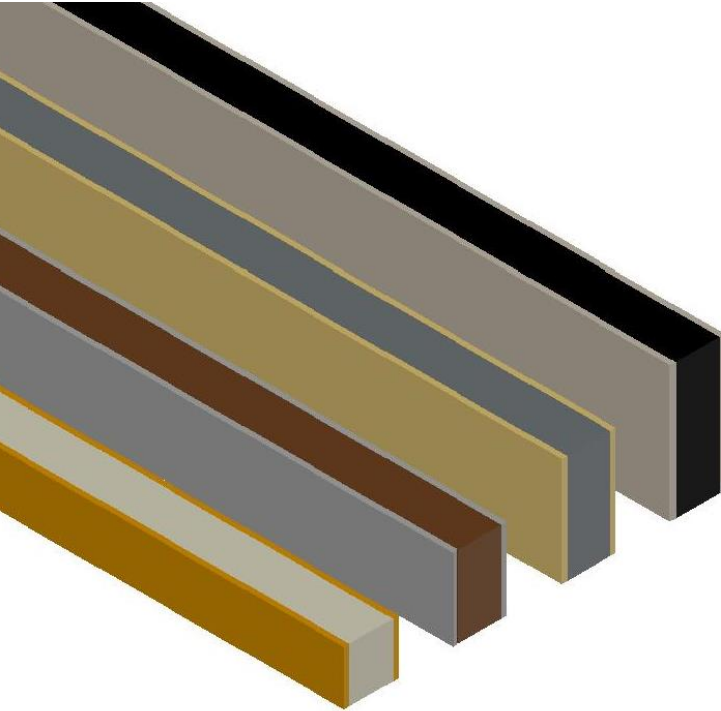
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MOVEMENT CONTROL JOINT SYSTEM

MOVEMENT CONTROL JOINTS - STRIP



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10 mm Wide Movement Control Joint – STRIP

Product Code				
Aluminium	Stainless Steel 304	Stainless Steel 316	Brass	Overall Height (H)
-	RJ 3102	RJ 4102	RJ 5102	8mm
RJ 2015	RJ 3104	RJ 4104	RJ 5104	10mm
RJ 2016	RJ 3106	RJ 4106	RJ 5106	12.5mm
RJ 2011	RJ 3108	RJ 4108	RJ 5108	15mm
RJ 2010	RJ 3112	RJ 4112	RJ 5112	20mm
RJ 2008	RJ 3114	RJ 4114	RJ 5114	25mm
RJ 2017	RJ 3115	RJ 4115	RJ 5116	30mm

Material Selection:

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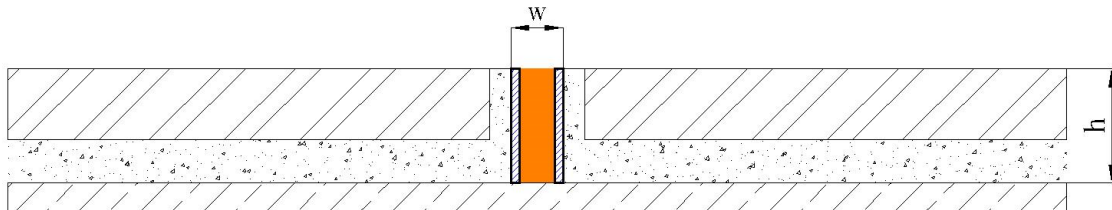
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Insert Color: EPDM – Black;

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CO-EXTRUDED PVC MOVEMENT CONTROL JOINTS

uPVC Tile Movement Control Joint are designed to prevent problems, such as cracking and tile lifting, that will always appear when the floor covering is laid on large surfaces without any joints. Made with coextruded PVC with an outer layer of rigid PVC for efficient protection of the tile edges, and a flexible PVC central element able to take up the floor constraints. Available in different heights and in the standard grey, beige and transparent colors. The control joints are available with side flanges type and Strip type. The control joints are used with adhesive-laid floor covering such as tiles, ceramics, etc. They are suitable for commercial and industrial uses.



uPVC Movement Control Joint – L TYPE

	Product Code	Height	Width
	RP 8011	10	10
	RP 8012	12.5	10
	RP 8013	15	10
	RP 8014	20	10
	RP 8015	25	10

uPVC Tile Movement Control joint is a co-extruded for laying with tile adhesive. Suitable for pedestrian traffic, this profile provides limited protection to the tile edges and compensates slight differential movement due to substrate contraction and expansion. Ideally used in retail shops, hotels, sports facilities and schools. Made of non-toxic PVC & anti shock, UV resistant materials



uPVC Movement Control Joint – STRIP

	Product Code	Height	Width
	RP 8002	20	10
	RP 8001	25	8
	RP 8003	25	10
	RP 8004	30	10
	RP 8005	40	10