



CoverEx

Expansion Joint Systems

CoverEx Expansion Joint Systems is the expansion joint system used in the shopping malls, business centers, hospitals, residences, parking lots and industrial buildings, for different loads (pedestrian, light and heavy vehicle traffics) and on the ground, wall and seismic applications to prevent damages by accommodating the movement of the building.



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Expansion Joint Systems

What is an expansion joint?

Expansion joint is the structural gap left for the purpose of preventing the damages to emerge as a result of the expansion, shrinkage and settlement movements of the vertical or horizontal loads in the large massive reinforced concrete and steel constructions, in accordance with the terms of structural statics.

Movement Types

Expansion Movement: The movement arising to eliminate the energy accumulations resulting from the pressure or tensile stress.

Settlement (of the building) Movement: The joint movement of the construction arising from the settlement pressure of the construction's load on the ground.

Earthquake Movement: Vibration movements arising from the earthquake effect.

Constructions Requiring Expansion Joint

In buildings of big size and / or deployed to a wide area, expansion joint gaps have to be left in every 20 -10 meters depending on the soil conditions survey and building statics. Hotels, shopping malls, residences, schools, hospitals, industrial buildings and business centers and similar buildings need expansion gaps.

Characteristics and Values Determining Expansion Joint System

- The expansion joint gap dimension.
- The type of the coating to be used in floor coating.
- Thickness of the coating to be used in floor coating.
- Sub-coating and over-coating profile preferences.
- The type of coating to be used in the wall and ceiling.
- The type of possible transition loads to be observed in the places to use ground profiles (automobile, truck, heavy load, forklift etc.).
- The verification of expansion joints requiring seismic solutions, are the characteristics and values determining the use of dilatation profile.

Areas of Usage for Expansion Joint Profiles

Profiles for Walls / Ceilings

Wall / Ceiling Profiles for Under-Coating: The profile detail under the wall ceiling coatings available, in the joint spaces such as gypsum plaster, plaster bard and tile.

Wall / Ceiling Profiles for Over-Coating: The profile detail over the wall ceiling coatings available, in the joint spaces such as gypsum plaster, plaster bard and tile.

Profiles for Floors

Floor Profiles for Under-Coating: Underground profiles resistant against the loads of the pedestrians, light vehicles such as automobile and heavy vehicles such as articulated lorry, truck, forklift and pick-up truck.

Floor Profiles for Over-Coating: Over-ground profiles resistant against the loads of the pedestrians, light vehicles such as automobile and heavy vehicles such as articulated lorry, truck, forklift and pick-up truck.

Profile Covers

Cover Profiles for Wall / Ceiling: The profiles over the coating used the wall and ceiling joint spaces such as in gypsum plaster, plaster board and tile.

Cover Profiles for Floors with Pedestrian Traffic: The cover profile detail used in the ground with pedestrian load.

Ground Vehicle Cover Profile: The cover profile detail used in the ground with vehicle load.

Seismic Resistant Profiles

Ground, wall and ceiling profiles used in the spaces with more dilatation joint space and spaces, where movement capability is needed more.

Steel Profiles

The heavy load-resistant profiles in the industrial buildings such as plants and storehouses, suitable for articulated lorry, truck, pick-up truck, forklift and pallet truck passing.

Profiles with Waterproofing

The profiles used in places with expansion joint gaps, such as wet volumes, exterior spaces and exterior facades, in case of requiring waterproofing.

Profiles for Coping

Coping Profiles for Expansion Joints: The detail solution profile used in the areas, where dilatation joints are present, in the terraced roofs.

Coping Profiles for Parapets: The detail solution profile used over the parapet walls in the terraced roofs.

Expansion Joint Waterproofing

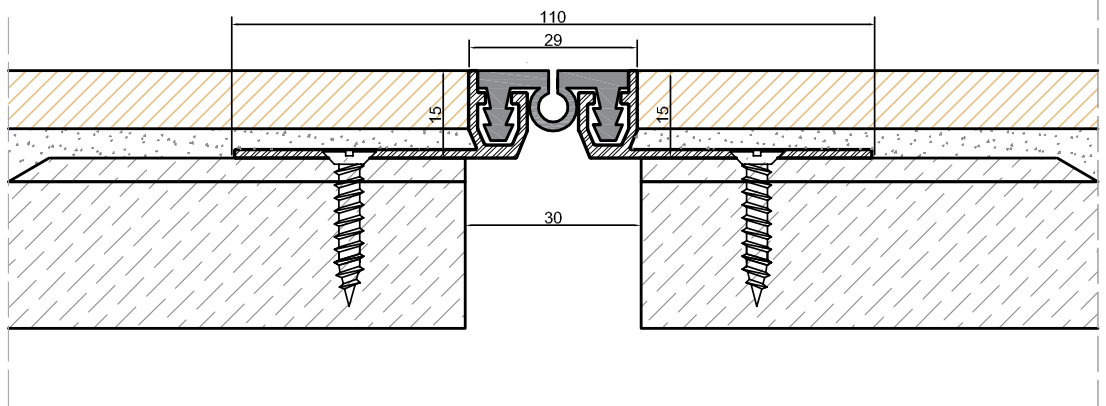
These are the products required to be used in all expansion joint gaps with waterproofing requirements. The finishing details of the surface waterproofing products on the floor must be compatible with waterproofing materials on expansion joint system.



CoverEx ZA010 - 3015 Expansion Joint Systems

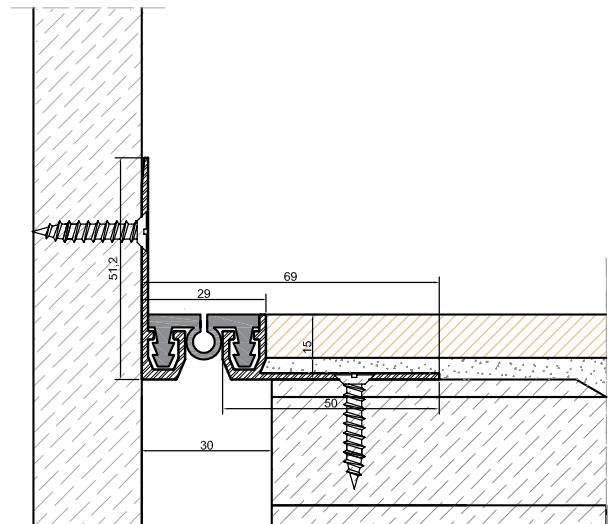
Areas of Application and Usage

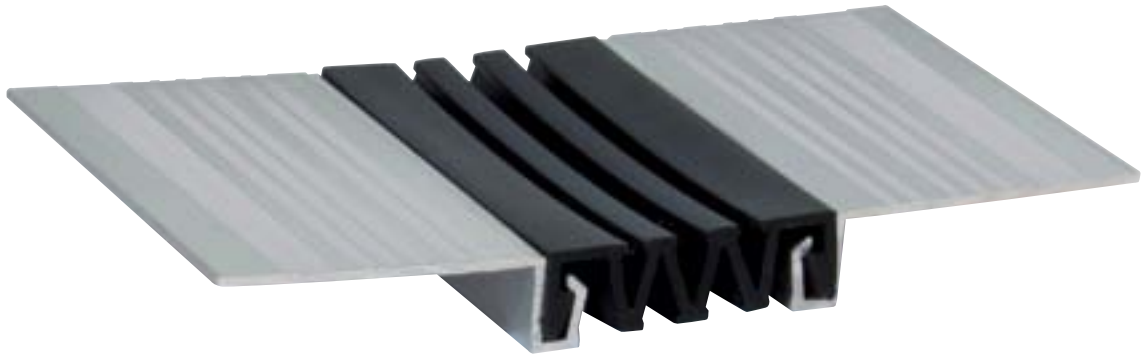
CoverEx ZA010 - 3015 Expansion Joints System is embedded on the floor under the coating for residences, shopping malls and business centers with pedestrian traffic load. The system is composed of EPDM and aluminum materials. There is a variation of mounting brackets for different thicknesses of coatings. Anchorage must be applied in every 40 cm on the profile.



Technical Specifications

Product No	ZA010 - 3015 / ZA010 - 3015K
Expansion Joint Gap	30 mm
Visible Gap	29 mm
Height	15/26/35/50
Load Capacity	Pedestrian
Movement Capacity	± 5 mm
Profile Length	3 m
Material Type	Aluminum profile, EPDM gasket

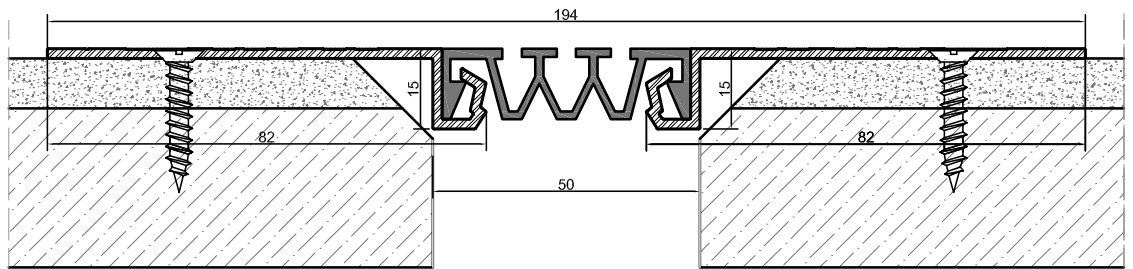




CoverEx DU020 - 5015 Expansion Joint Systems

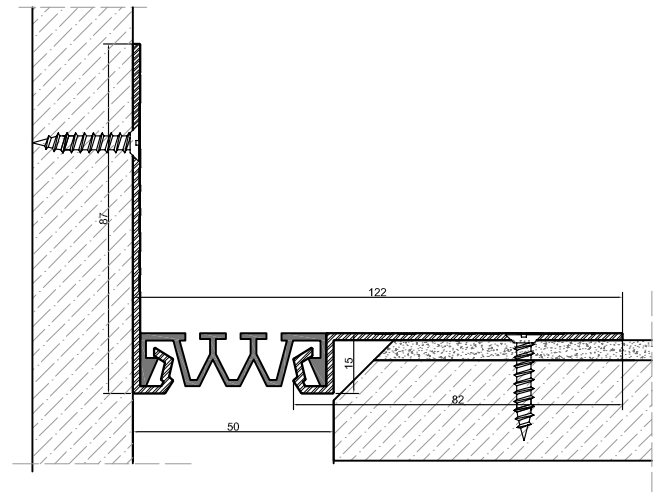
Areas of Application and Usage

CoverEx DU020 - 5015 Expansion Joints System is mounted on the wall / ceiling over the coating, tile, plaster, and plaster board surfaces. The system is composed of EPDM and aluminum materials. There is a variation of mounting brackets for different thicknesses of coatings. Anchorage must be applied in every 40 cm on the profile.



Technical Specifications

Product No	DU020 - 5015 / DU020 - 5015K
Expansion Joint Gap	50 mm
Visible Gap	194 mm
Height	15/60
Load Capacity	-
Movement Capacity	± 20 mm
Profile Length	3 m
Material Type	Aluminum profile, EPDM gasket



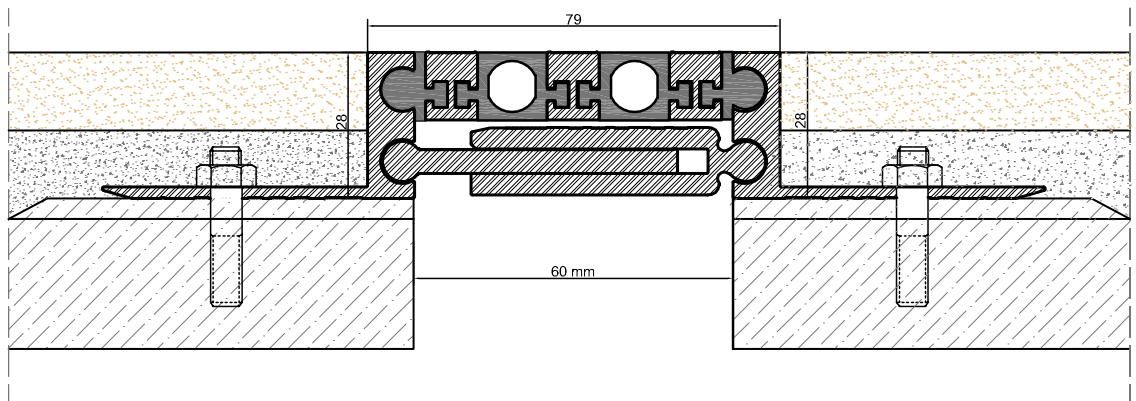


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ZA030 - 6028
Expansion Joint Systems

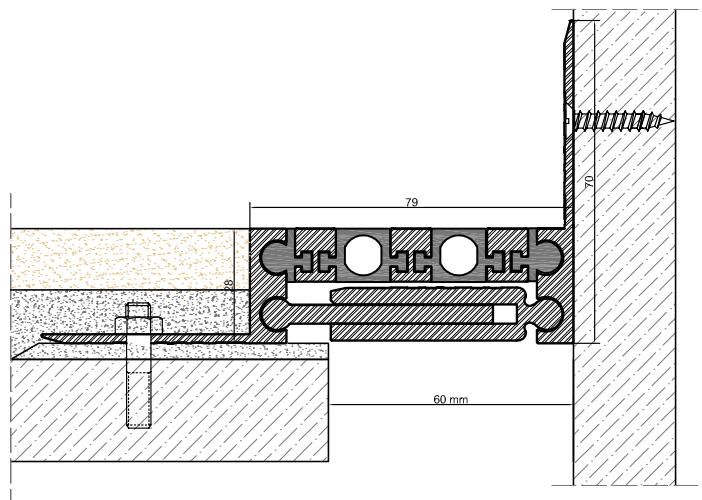
Areas of Application and Usage

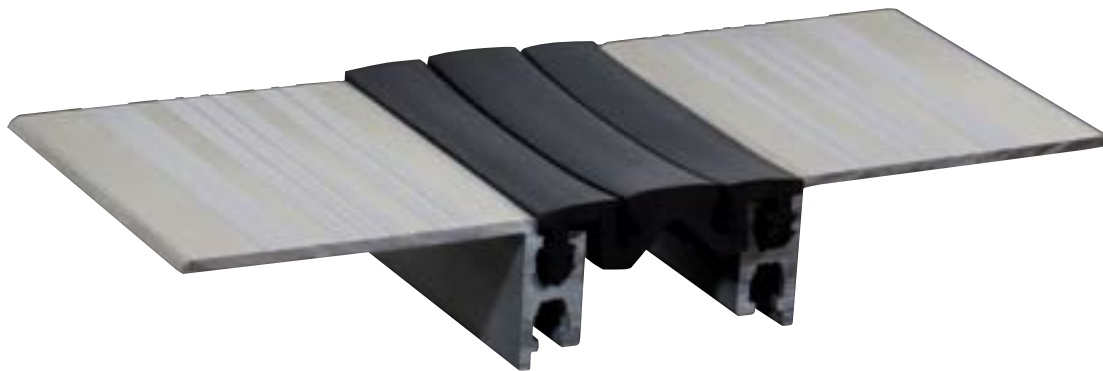
CoverEx ZA030 - 6028 Expansion Joints System is embedded on the floor under the coating for residences, shopping malls and business centers with pedestrian and light vehicle traffic usage. The system is composed of EPDM and aluminum materials. There is a variation of mounting brackets for different thicknesses of coatings. Anchorage must be applied in every 40 cm on the profile.



Technical Specifications

Product No	ZA030 - 6028 / ZA030 - 6028K
Expansion Joint Gap	60 mm
Visible Gap	79 mm
Height	15/23/28/35/43/60/68/88
Load Capacity	Light vehicle
Movement Capacity	± 6 mm
Profile Length	3 m
Material Type	Aluminum profile, EPDM gasket

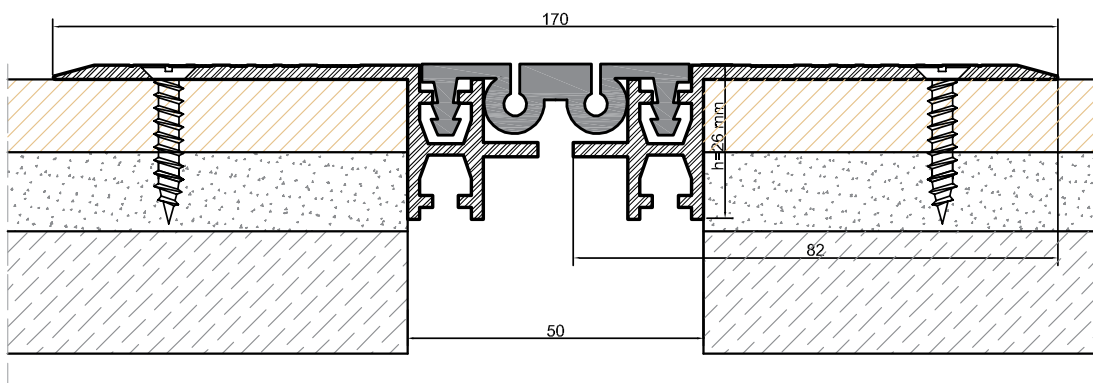




CoverEx ZU010 - 5026 Expansion Joint Systems

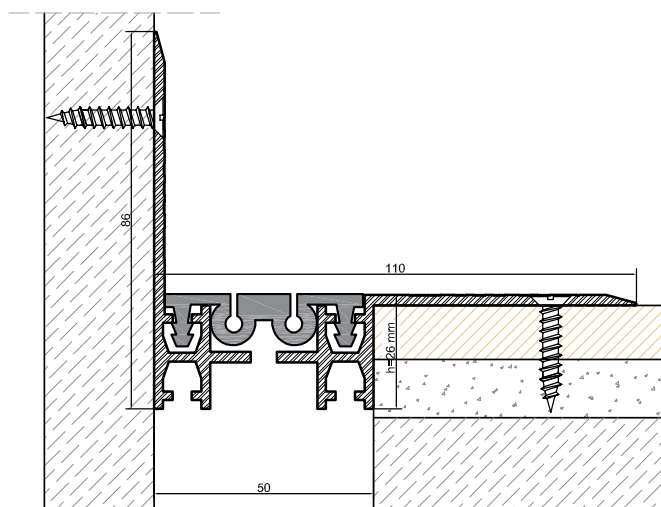
Areas of Application and Usage

CoverEx ZU010 - 5026 Expansion Joints System is mounted on the floor over the coating for residences, shopping malls and business centers with pedestrian and light vehicle traffic usage. The system is composed of EPDM and aluminum materials. There is a variation of mounting brackets for different thicknesses of coatings. Anchorage must be applied in every 40 cm on the profile.



Technical Specifications

Product No	ZU010 - 5026 / ZU010 - 5026K
Expansion Joint Gap	50 mm
Visible Gap	170 mm
Height	15/27
Load Capacity	Light vehicle
Movement Capacity	± 12 mm
Profile Length	3 m
Material Type	Aluminum profile, EPDM gasket

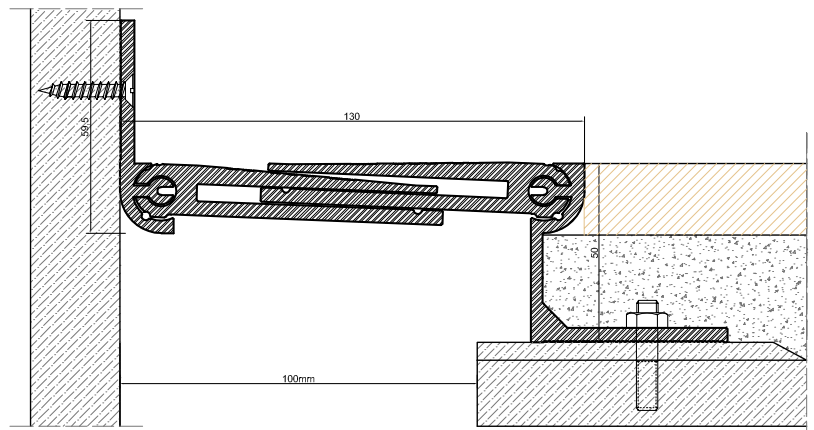
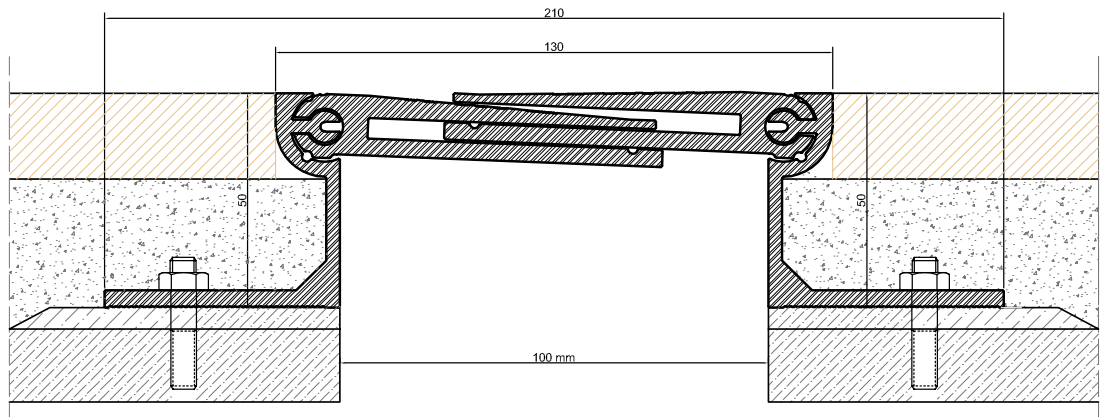




CoverEx ZA060 - 10050 Expansion Joint Systems

Areas of Application and Usage

CoverEx ZA060 - 10050 Expansion Joints System is embedded on the floor under the coating for healthcare and industrial sectors, residences, shopping malls and business centers with heavy duty traffic load. The system is only composed of aluminum material. There is a variation of mounting brackets for different thicknesses of coatings. Anchorage must be applied in every 40 cm on the profile.



Technical Specifications

Product No	ZA060 - 10050 / ZA060 - 10050K
Expansion Joint Gap	100 mm
Visible Gap	130 mm
Height	50
Load Capacity	Vehicle 50 kN, Forklift 25 kN
Movement Capacity	± 20 mm
Profile Length	3 m
Material Type	Aluminum profile, EPDM gasket

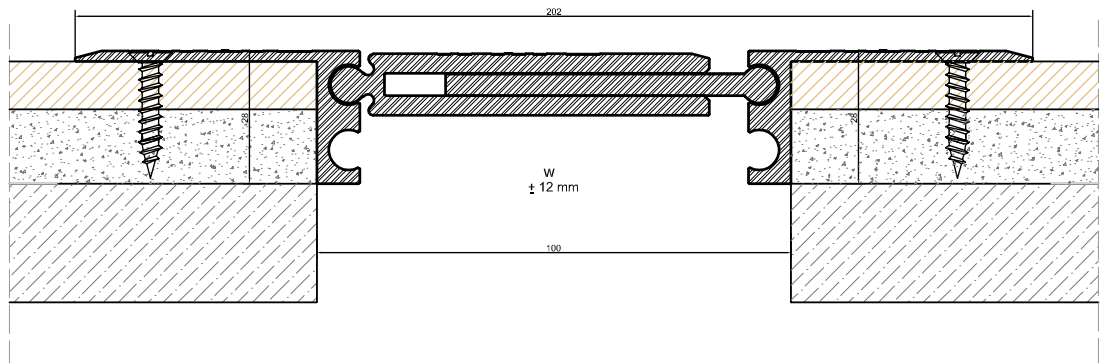




CoverEx ZU050 - 10028 Expansion Joint Systems

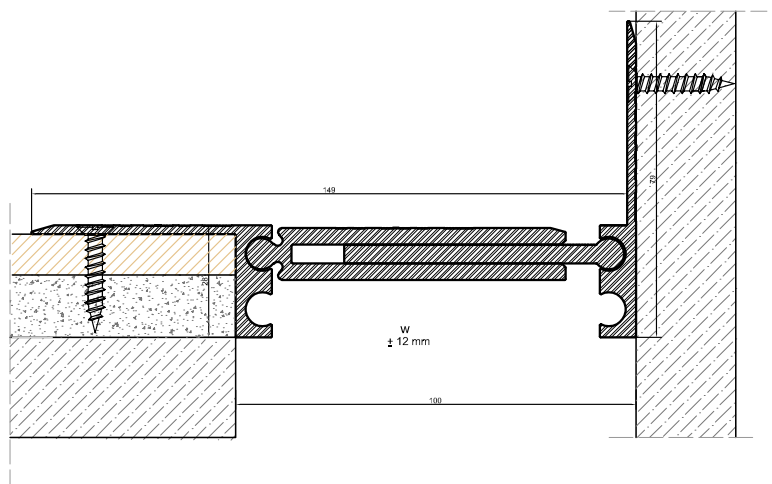
Areas of Application and Usage

CoverEx ZU050 - 10028 Expansion Joints System is mounted on the floor over the coating for residences, shopping malls and business centers with pedestrian and light vehicle traffic load. The system is only composed of aluminum material. There is a variation of mounting brackets for different thicknesses of coatings. Anchorage must be applied in every 40 cm on the profile.



Technical Specifications

Product No	ZU050 - 10028 / ZU050 - 10028K
Expansion Joint Gap	50 mm
Visible Gap	202 mm
Height	15/28/43
Load Capacity	Light vehicle
Movement Capacity	± 12 mm
Profile Length	3 m
Material Type	Aluminum profile, EPDM gasket

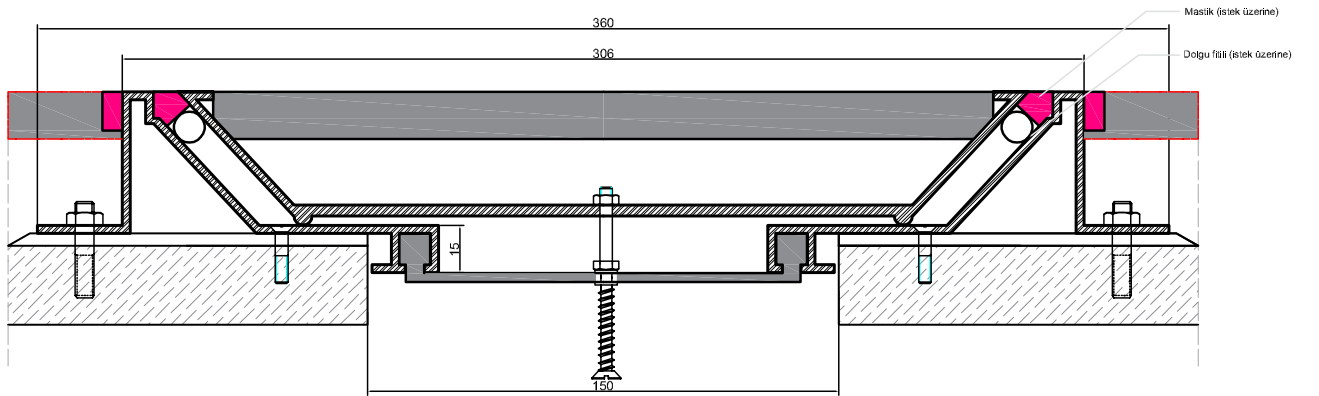




CoverEx ZA090 - 15045 Expansion Joint Systems

Areas of Application and Usage

CoverEx ZA090 - 15045 Expansion Joints System is embedded on the floor under the coating for seismic needs with pedestrian traffic load. The system is only composed of aluminum and steel materials. There is a variation of mounting brackets for different thicknesses of coatings. Anchorage must be applied in every 40 cm on the profile.



Technical Specifications

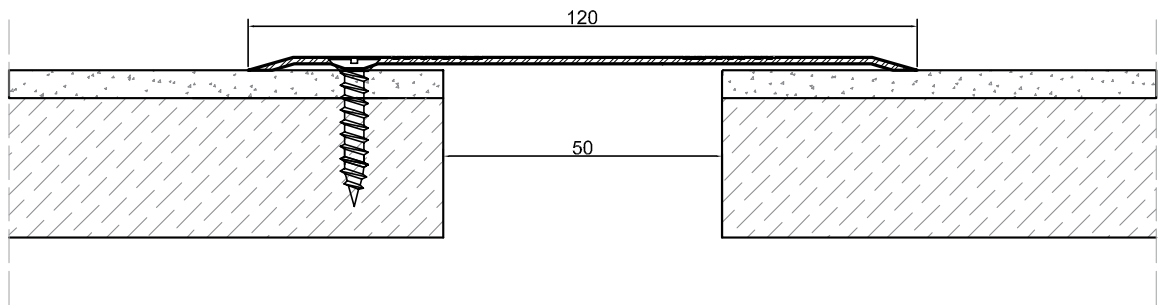
Product No	ZA090 - 15045 / ZA090 - 15045K
Expansion Joint Gap	150 mm
Visible Gap	360 mm
Height	45/70
Load Capacity	Pedestrian
Movement Capacity	± 75 mm
Profile Length	3 m
Material Type	Aluminum, Steel



CoverEx DK120 - 01 Expansion Joint Systems

Areas of Application and Usage

CoverEx DK120 - 01 Expansion Joints System is mounted on the wall / ceiling over the coating, tile, plaster, and plaster board surfaces for hospitals, business centers and shopping malls. The system is only composed of aluminum material. Anchorage must be applied in every 40 cm on the profile.



Technical Specifications

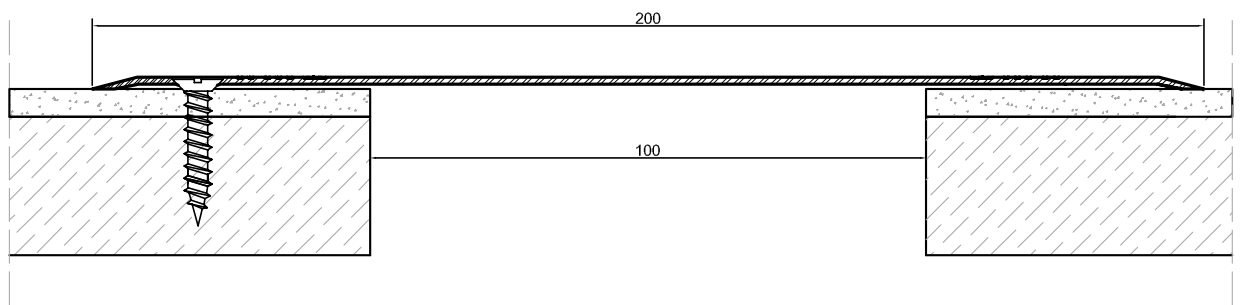
Product No	DK120 - 01
Expansion Joint Gap	50 mm
Visible Gap	120 mm
Load Capacity	-
Profile Length	3 m
Material Type	Aluminum profile



CoverEx DK200 - 01 Expansion Joint Systems

Areas of Application and Usage

CoverEx DK200 - 01 Expansion Joints System is mounted on the wall / ceiling over the coating, tile, plaster, and plaster board surfaces for hospitals, business centers and shopping malls. The system is only composed of aluminum material. Anchorage must be applied in every 40 cm on the profile.



Technical Specifications

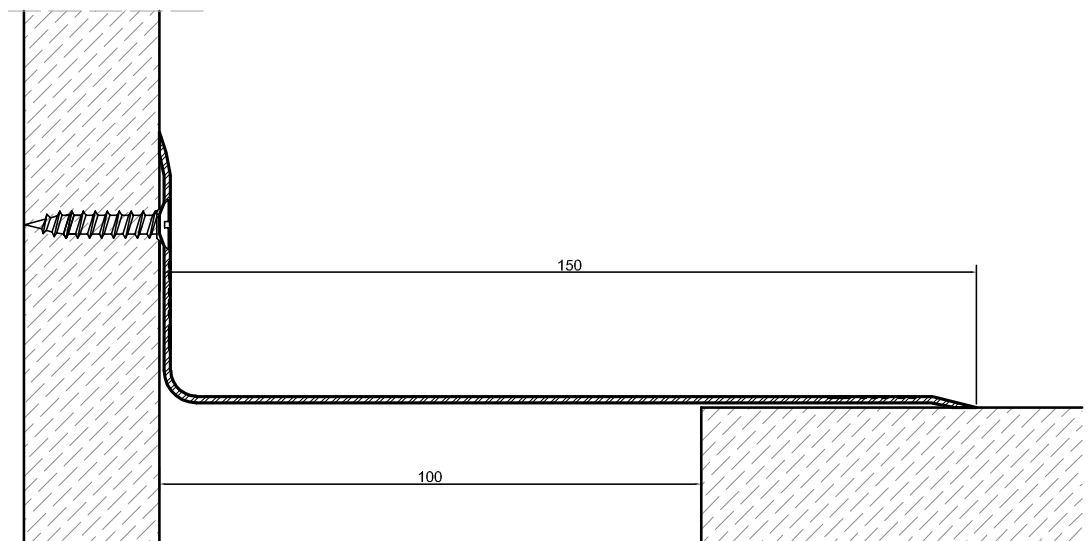
Product No	DK200 - 01
Expansion Joint Gap	100 mm
Visible Gap	200 mm
Load Capacity	-
Profile Length	3 m
Material Type	Aluminum profile



CoverEx KK50150 - 01 Expansion Joint Systems

Areas of Application and Usage

CoverEx KK50150 - 01 Expansion Joints System is mounted on the corners over the coating, tile, plaster, and plaster board surfaces for hospitals, business centers and shopping malls. The system is only composed of aluminum material. Anchorage must be applied in every 40 cm on the profile.



Technical Specifications

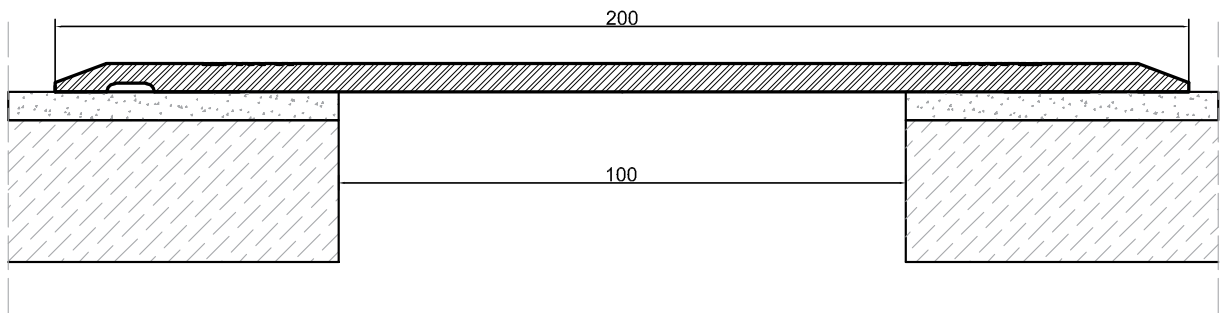
Product No	KK50150 - 01
Expansion Joint Gap	50 mm
Visible Gap	150 mm
Load Capacity	-
Profile Length	3 m
Material Type	Aluminum profile



CoverEx ZK200 - 01 Expansion Joint Systems

Areas of Application and Usage

CoverEx ZK200 - 01 Expansion Joints System is mounted on floor over the coating, for hospitals, residences, business centers and shopping malls with pedestrian traffic load. The system is only composed of aluminum material. Anchorage must be applied in every 40 cm on the profile.



Technical Specifications

Product No	ZK200 - 01
Expansion Joint Gap	100 mm
Visible Gap	200 mm
Load Capacity	Pedestrian
Profile Length	3 m
Material Type	Aluminum profile

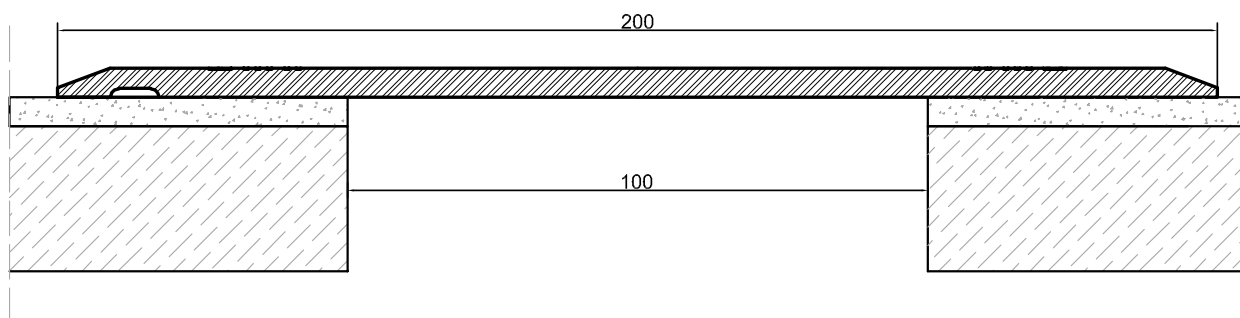




CoverEx ZK200 - 02 Expansion Joint Systems

Areas of Application and Usage

CoverEx ZK200 - 02 Expansion Joints System is mounted on floor over the coating, for hospitals, residences, business centers and shopping malls with light vehicle traffic load. The system is only composed of aluminum material. Anchorage must be applied in every 40 cm on the profile.



Technical Specifications

Product No	ZK200 - 02
Expansion Joint Gap	100 mm
Visible Gap	200 mm
Load Capacity	Light vehicle
Profile Length	3 m
Material Type	Aluminum profile



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Expansion Joint Systems

The aluminum and EPDM materials compose **CoverEx Expansion Joint Systems**. These materials are produced by taking into account that their performance will meet the technical details and meet the building's statics calculations and international standards. Thus the CoverEx Expansion Joints Systems will cover your gaps safely.

Expansion Joints Material Properties

Aluminum Properties	Unit	Values
Aluminum	-	6063 AA
Rupture Strength	kg/mm ²	16,5
Tensile Strength	kg/mm ²	19
Elongation at Break	kg/mm ²	8
Shearing Strength	kg/mm ²	14
Density	g/cm ³	2,71

EPDM Properties	Test Method	Unit	Values
Hardness	ISO 7619-1	ShrA	65
Tensile Strenght	ISO 37	Mpa	9,9
Elongation at Break	ISO 37	%	482
Compression Set	ISO 815	%	8,8
Specific Gravity	ISO 2781	g/cm ³	1,14

- These values may change within the limits due to your inquiry.



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