

Armoured joints for industrial floors project product



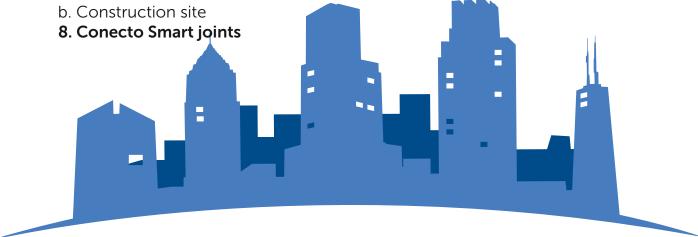
I D E A project product

Dear customers,

In response to the needs of architects, investors and contractors we are introducing a system of profiles securing and reinforcing floors at the joints between concrete slabs. We would like to present this offer and the new solutions that are the result of our experience in this area. We are open to all changes in order to maximally adjust our system to the present needs of our customers which result from the specifications of modern solutions in architecture. We are ready to accept the challenges and create individual solutions. You are all invited to co-operate with us.

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conecto DOWEL SYSTEM

Conecto Dowel system are designed to create expansion joints for industrial. Steel armoured joints with their unique construction constitute a stay-in-place formwork and additionally secure conrete floor edges. Conecto Dowel system is a floor expansion joint solution, where an anchoring element is a steel dowel placed in a specifically designed plastic sleeve, which permits free horizontal movement (along and across of expansion joints) and prevents vertical movements between expanded floor plates. Plastic elements are provided with proper reinforcements, which protect them against the deformation caused by the concrete pressure (even when the floor is thick).

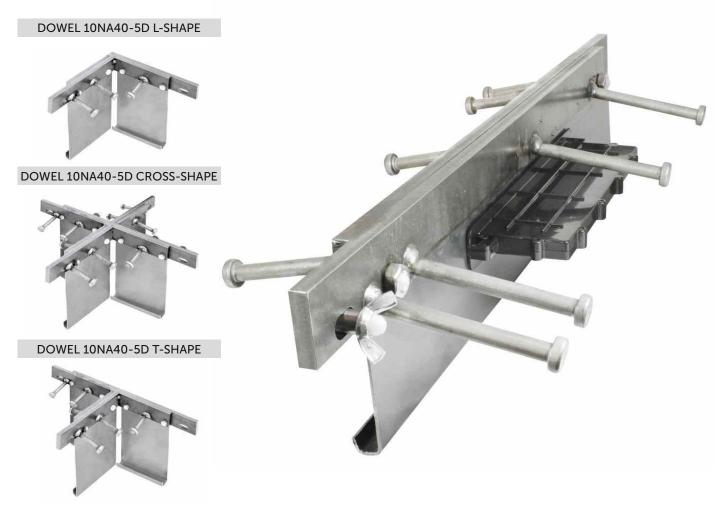


This table shows the load at failure in bursting (failure of the concrete) and bending (failure of the dowel) for a joint opening of 25mm. The ultimate load has been calculated in accordance with TR34 (4th edition).

Load capacity about expansion joints depending on amount of dowels in one joint [kN/lm] steel S355MC, floor concrete C25/30							
Dowel size 180x120x8mm		opening dilatation					
Amount of dowels \ one joint	0	0 5 10 15 20 25					
5D	248	174	126	96	77	64	
6D	297	208	151	116	92	76	
7D	346	243	176	135	108	89	
Dowel size 180x140x10mm			opening	dilatation			
Amount of dowels \ one joint	0	5	10	15	20	25	
5D	310	232	178	141	115	96	
6D	372	279	214	169	138	115	
7D	433	325	249	197	161	135	

[•] According to TR34. Edition 4 from 2013

conecto DOWEL 10NA40-5D



Expansion strips are mounted in concrete floor plates to compensate movements in plate sections. Concrete plates are exposed to internal and external pressures. Damage occurs mainly at the edges of plates near to connections. Connection of floor plates should compensate their mutual horizontal movements (perpendicular and parallel to the expansion joint) which are usually caused by thermal expansion and shrinkage of concrete. At the same time the connection must also block vertical movements and mutual curving of floor elements which is a consequence of traffic, heavy loads and uneven passive earth pressure.

 $Conecto\,Dowel\,\,expansion\,joints\,allow\,for\,a\,movement\,between\,floor\,plates:$

- dowel size 180x120x8mm ±15mm parallel and ±20mm perpendicular
- dowel size 180x140x10mm ±20mm parallel and ±30mm perpendicular

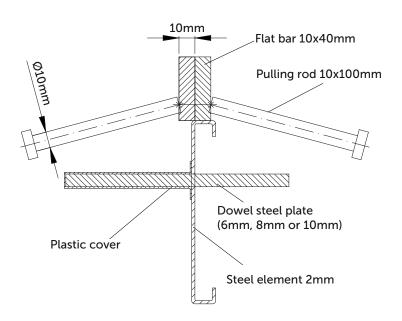
Conecto Dowel expansion joints ensure an even distribution of the loads between floor plates by preventing excessive local tensions. Expansion joints help to eliminate the main reason behind uncontrolled floor cracking, they make the floor last longer and improve use comfort.

The number of expansion joints should allow to divide the floor into regular fields, with a shape similar to a square of up to $1000 \, \mathrm{m}^2$, which constitutes a daily flooring efficiency. Joints should be spaced at a distance not greater than $45x45 \, \mathrm{m}$. The system is complete, easy to install and ready for application, all you should do is place the joint at the installation site and join them without wrenches, using screws with wing nuts provided in the package.

Conecto Dowel joints guarantee proper resistance in case of permanent high traffic loads.



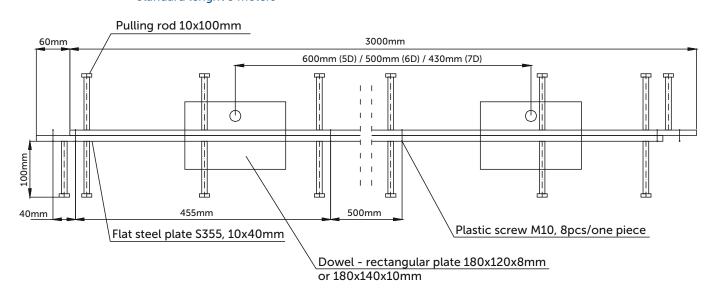
conecto DOWEL 10NA40-5D



- Possibility to use flat bars size 6x40mm or 8x40mm
- Possibility to prepare top bars made of galvanized steel or stainless steel
- Possibility to use foam 5mm or 10mm in whole height
- Very big surface of steel dowel standard size 180x120x8, possibility to use bigger dowels - 180x140x10
- Standard space between dowels 600mm (5D)
- Possibility to use more dowels per one joint (6D, 7D)
 to increase max loads on floor
- Standard grade steel \$355
- Plastic cover made of highly resistant ABS plastic

Floor height [mm]	Profile height [mm]	Dowel size [mm]	Dowel spacing [mm]	One piece weight [kg]	Max pieces on pallet [pcs]	Pallet weight [kg]
100-110	90			31.8	75	2550
110-130	100	180x120x8	600	32.3	70	2450
135-155	125			33.5	70	2500
160-185	155			34.9	70	2600
185-205	175			35.9	66	2550
210-230	200			37.1	55	2250
235-255	225			38.3	55	2300
260-280	250			39.5	44	1950
285-305	275			40.7	44	2000

- possibility to prepare profiles in any height (every 5mm)
- possibility to prepare profiles of height 50mm, 60mm, 70mm, 80mm
- standard lenght 3 meters



conecto sinus 06NS50-4D



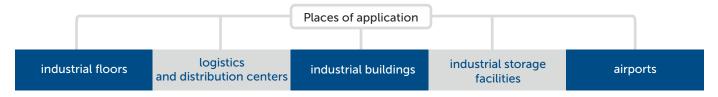
Conecto Sinus joint is innovation solution on the market. Due to unique construction and best quality materials it gives feeling when driving over it, that there is no profile in the floor. Using sinusoid joint you could avoid floor cracking and difficult and expensive reparations. Conecto Sinus joints completely absorb shocks and they are completely invisible in usage. Usage of Conecto Sinus joints minimizes operation costs. They reduce problem of damaged fork-lift wheels, loading equipment and goods destruction due to shocks.

Conecto Sinus expansion joints allow for a movement between floor plates:

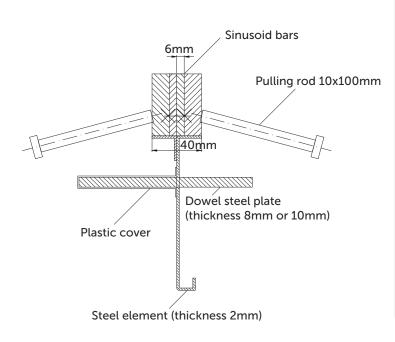
- dowel size 180x120x8mm ±15mm parallel and ±20mm perpendicular
- dowel size 180x140x10mm ±20mm parallel and ±30mm perpendicular

Sinusoid joint evenly moves tension which gives correct mutual horizontal and side-by-side movements. Another advantage of these joints is easy installation. You just need to put the strip in proper place and anchor it to the ground. Anchoring elements size and shape are designed to give the biggest surface to move the tenses between parts of the floor.

Conecto Sinus system allows for the free movement of forklifts which wheels are particularly damaging for wrong made expansion joints.



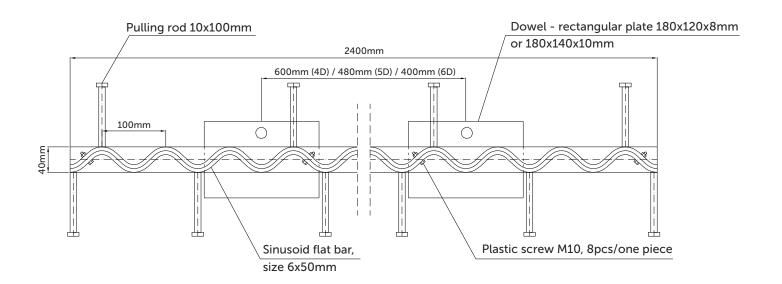
conecto sinus 06NS50-4D



- Possibility to use top sinus bars made of 4mm or 6mm thickness steel
- Possibility to prepare sinus made of total galvanized steel or stainless steel top
- Possibility to use foam 5mm or 10mm in whole height
- Very big surface of steel dowel standard size 180x120x8,
 possibility to use bigger dowels 180x140x10
- Standard space between dowels 600mm (4D)
- Possibility to use more dowels per one joint (5D, 6D)
 to increase max loads on floor
- Standard grade steel on top S235, dowel system S355
- Plastic cover made of highly resistant ABS plastic

Floor height [mm]	Profile height [mm]	Dowel size [mm]	Dowel spacing [mm]	One piece weight [kg]	Max pieces on pallet [pcs]	Pallet weight [kg]		
135-155	125			24.8	80	2150		
160-185	155	180×120×8				25.9	70	2000
185-205	175					26.7	60	1800
210-230	200		600	27.6	50	1600		
235-255	225				28.6	50	1650	
260-280	250			29.5	50	1700		
285-305	275			30.5	50	1750		

- ability to perform a profile in any height of 5 mm.
- standard lenght 2.4 meters



conecto sinus 06NCC60-5D



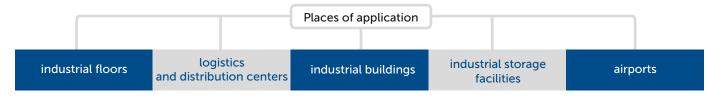
Conecto Sinus joint is innovation solution on the market. Due to unique construction and best quality materials it gives feeling when driving over it, that there is no profile in the floor. Using sinusoid joint you could avoid floor cracking and difficult and expensive reparations. Conecto Sinus joints completely absorb shocks and they are completely invisible in usage. Usage of Conecto Sinus joints minimizes operation costs. They reduce problem of damaged fork-lift wheels, loading equipment and goods destruction due to shocks.

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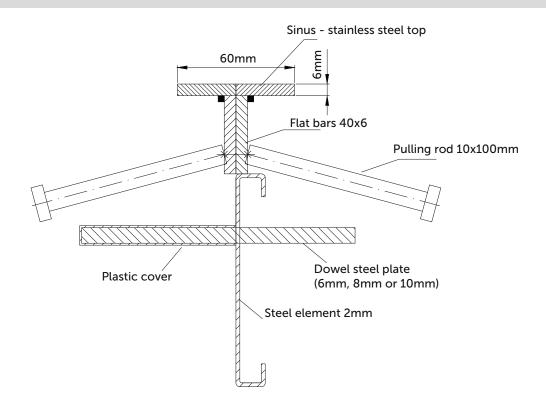
- dowel size 180x120x8mm ±15mm parallel and ±20mm perpendicular
- dowel size 180x140x10mm ±20mm parallel and ±30mm perpendicular

Sinusoid joint evenly moves tension which gives correct mutual horizontal and side-by-side movements. Another advantage of these joints is easy installation. You just need to put the strip in proper place and anchor it to the ground. Anchoring elements size and shape are designed to give the biggest surface to move the tenses between parts of the floor.

Conecto Sinus system allows for the free movement of forklifts which wheels are particularly damaging for wrong made expansion joints.

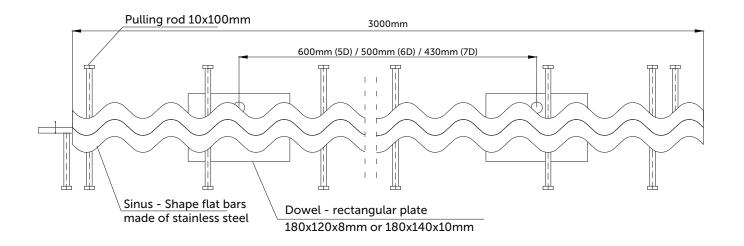


conecto sinus 06NCC60-5D



Floor height [mm]	Profile height [mm]	Dowel size [mm]	Dowel spacing [mm]	One piece weight [kg]	Max pieces on pallet [pcs]	Pallet weight [kg]		
125	100			34,5	64	2400		
150	125	180×120×8				35,7	64	2450
175	155			37,2	56	2250		
200	175		100-120-0	100-120-0	600	38,1	56	2300
225	200		600	39,3	48	2050		
250	225			40,5	48	2100		
275	250			41,7	40	1800		
300	275			42,9	40	1850		

- possibility to prepare profiles in any height (every 5mm)
- standard lenght 3 meters



conecto sinus 06NC85-5D



Expansion strips are mounted in concrete floor plates to compensate movements in plate sections. Concrete plates are exposed to internal and external pressures. Damage occurs mainly at the edges of plates near to connections. Connection of floor plates should compensate their mutual horizontal movements (perpendicular and parallel to the expansion joint) which are usually caused by thermal expansion and shrinkage of concrete. At the same time the connection must also block vertical movements and mutual curving of floor elements which is a consequence of traffic, heavy loads and uneven passive earth pressure.

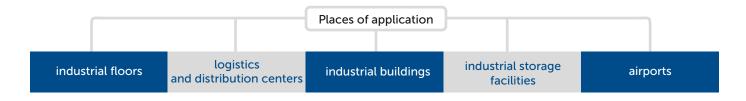
Conecto Sinus expansion joints allow for a movement between floor plates:

- dowel size 180x120x8mm ±15mm parallel and ±20mm perpendicular
- dowel size 180x140x10mm ±20mm parallel and ±30mm perpendicular

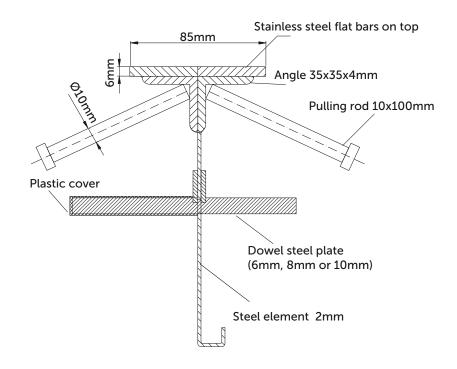
Conecto Sinus expansion joints ensure an even distribution of the loads between floor plates by preventing excessive local tensions. Expansion joints help to eliminate the main reason behind uncontrolled floor cracking, they make the floor last longer and improve use comfort.

The number of expansion joints should allow to divide the floor into regular fields, with a shape similar to a square of up to $1000 \, \mathrm{m}^2$, which constitutes a daily flooring efficiency. Joints should be spaced at a distance not greater than $45 \times 45 \, \mathrm{m}$. The system is complete, easy to install and ready for application, all you should do is place the profiles at the installation site and join them without wrenches, using screws with wing nuts provided in the package.

Conecto Sinus joints guarantee proper resistance in case of permanent high traffic loads.

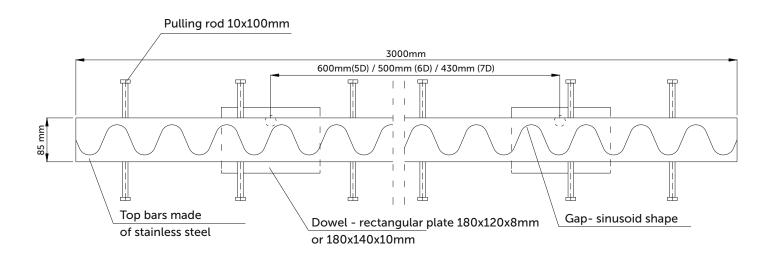


conecto sinus 06NC85-5D



Floor height [mm]	Profile height [mm]	Dowel size [mm]	Dowel spacing [mm]	One piece weight [kg]	Max pieces on pallet [pcs]	Pallet weight [kg]		
125	100			37,8	64	2600		
150	125	180×120×8				39	64	2700
175	155			40,3	56	2450		
200	175		100-120-0	100v120v0	600	41,4	56	2500
225	200		600	42,6	48	2250		
250	225			43,8	48	2300		
275	250			45	40	2000		
300	275			46,2	40	2050		

- possibility to prepare profiles in any height (every 5mm)
- standard lenght 3 meters



conecto sinus 06NC115-5D



Expansion strips are mounted in concrete floor plates to compensate movements in plate sections. Concrete plates are exposed to internal and external pressures. Damage occurs mainly at the edges of plates near to connections. Connection of floor plates should compensate their mutual horizontal movements (perpendicular and parallel to the expansion joint) which are usually caused by thermal expansion and shrinkage of concrete. At the same time the connection must also block vertical movements and mutual curving of floor elements which is a consequence of traffic, heavy loads and uneven passive earth pressure.

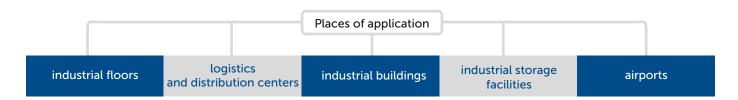
Conecto Sinus expansion joints allow for a movement between floor plates:

- dowel size 180x120x8mm ±15mm parallel and ±20mm perpendicular
- dowel size 180x140x10mm ±20mm parallel and ±30mm perpendicular

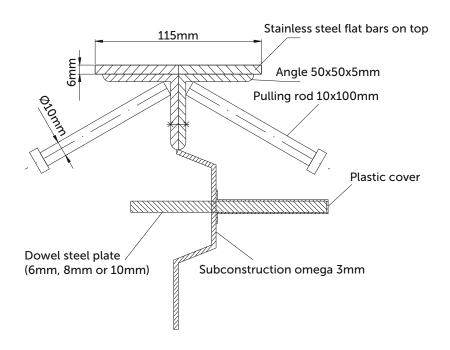
Conecto Sinus expansion joints ensure an even distribution of the loads between floor plates by preventing excessive local tensions. Expansion joints help to eliminate the main reason behind uncontrolled floor cracking, they make the floor last longer and improve use comfort.

The number of expansion joints should allow to divide the floor into regular fields, with a shape similar to a square of up to $1000 \, \mathrm{m}^2$, which constitutes a daily flooring efficiency. Joints should be spaced at a distance not greater than $45x45 \, \mathrm{m}$. The system is complete, easy to install and ready for application, all you should do is place the profiles at the installation site and join them without wrenches, using screws with wing nuts provided in the package.

Conecto Sinus joints guarantee proper resistance in case of permanent high traffic loads.

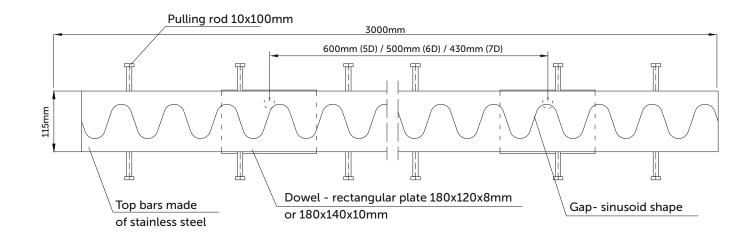


conecto sinus 06NC115-5D

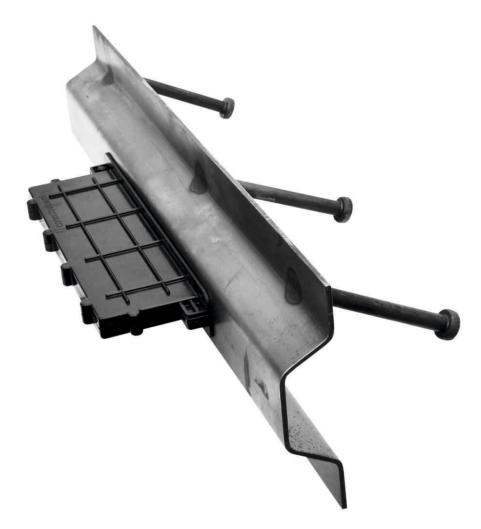


Floor height [mm]	Profile height [mm]	Dowel size [mm]	Dowel spacing [mm]	One piece weight [kg]	Max pieces on pallet [pcs]	Pallet weight [kg]	
150	125			52,7	56	3100	
175	155	180×120×8			54	56	3150
200	175					55,2	48
225	200		600	56,4	48	2850	
250	225			57,6	48	2900	
275	250			58,8	40	2500	
300	275			60	40	2550	

- possibility to prepare profiles in any height (every 5mm)
- standard lenght 3 meters
- height 125 without omega shape (footer)

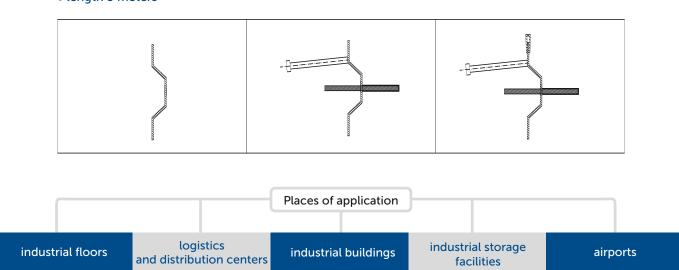


conecto omega 03NB

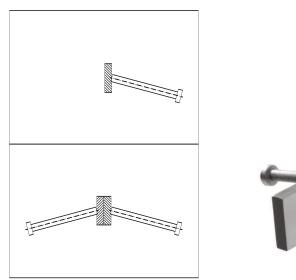


Conecto Omega 03NB is used as a day off work for the construction teams. The shape and dowel system prevent the least amount of vertical movement and guarantee optimal load transfers. Pulling rods guarantee solid anchorage in the concrete when shrinking occurs due to drying of the concrete, which also causes the actual widening to occur. The milled upper side ensures perfect smoothness of the 2 steel plates and lasting edge protection of the newly created floor.

• length 3 meters



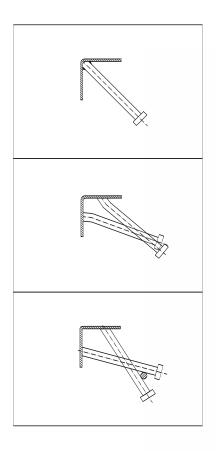
conecto STRIPJOINT & ANGLE BARS





StripJoint is combination of dowel system on top with timber formwork like a footer. It should be fixed to the top of the timber for the duration of the first concrete pour, and remains in place once the timber formwork is removed.

Suitable for a wide range of internal applications like industrial floors. Ideal for free movement areas, but also suitable for most other areas suitable for use with all vehicle types like forklifts. Standard length 3 meters

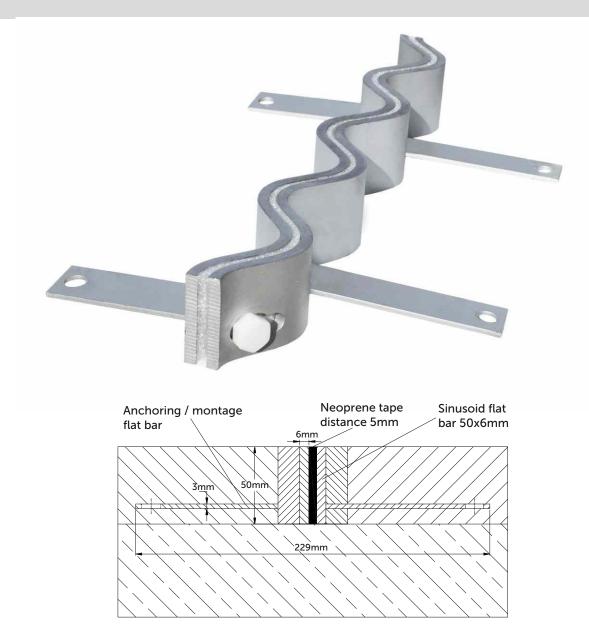




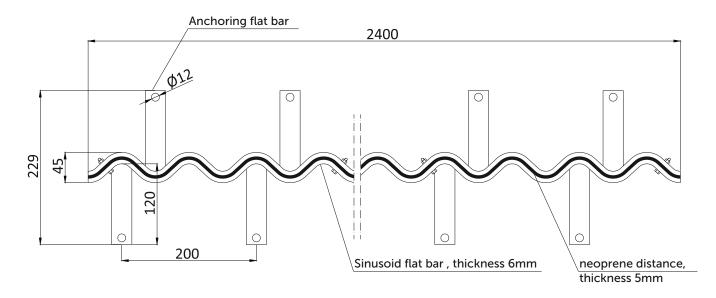
Angle Bars are designed to be used as protecting profile for the inner corner of the concrete constructions. They can transfer moderate loads to the concrete.

The standard length of the angle is 3 meters. They can be cut easily to required length at building site. Anchoring of the angle is based on rebar anchors.

conecto sinus 06NC50-R

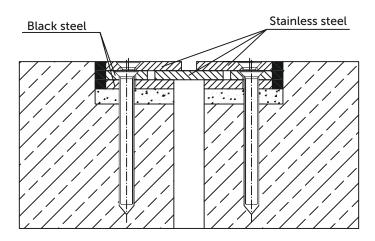


Conecto Sinus are reparation joints designed for cracking floors. Sinusoid construction provides two-level movement which prevent deeper cracking of the floors. Properly installed Conecto Sinus joints eliminate resultant damages and prevent in case of further damages. Properly secured with Conecto Sinus joints floor will not cause vehicles damages and ward off deep cracks which could prevent further usage of floor. Standard length = 2.4 meters.

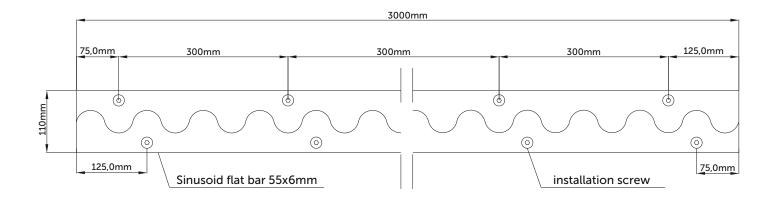


conecto sinus 06NC110/18-R

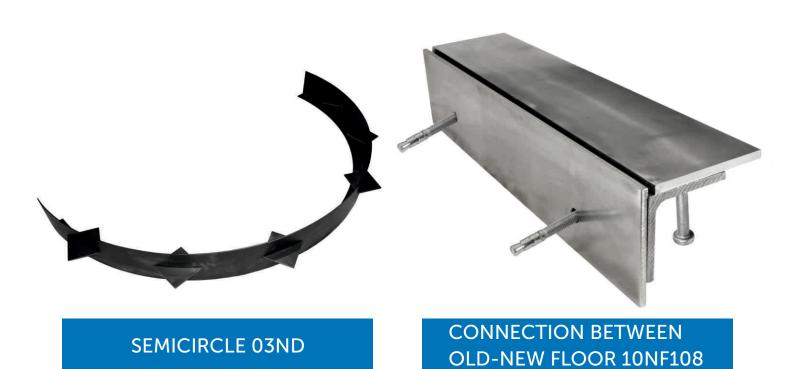




Flat steel joint with sinusoid dilatation gap designed for heavy loads, used for cracked concrete floors repair. Installed to existing concrete floor with montage flat bars that are removed after hardening of mortar. Bilateral protection of concrete plate edges. There is possibility to order the profile made of stainless steel or black steel. Standard length I = 3000mm. We have a possibility to make a profile in different widths between 100mm-300mm.



conecto SPECIFIC SOLUTIONS



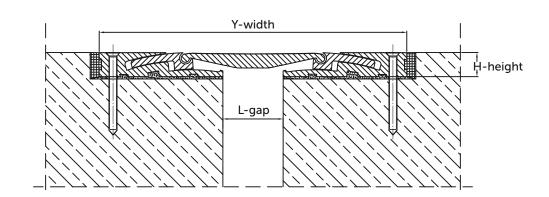


06NE100

08NE120

conecto HDS





Conecto HDS is the system of construction connectors for walking and riding movement, designed to use in big buildings or industrial objects. Due to big movement of mobile element it is possible to use these connectors to compensate seismic tensions. Connector does not have the wings which gives smaller thickness of adjacent surface. Hidden sliding runners make the upper surface flat and edges-free. This solution is easier for cleaning and reduces noises and friction when it is in contact with wheels. Installation system gives monolithic connection with surface.

ART.	L mm*	H mm*	Y mm*	Horizontal mov. mm	Horizontal mov. mm
HDS 230	50	25	230	+/- 20	+/- 15
HDS 255	75	25	255	+/- 20	+/- 15
HDS 50	50	20	255	+/- 30	+/- 20
HDS 100	100	20	305	+/- 30	+/- 20
HDS 150	150	20	360	+/- 30	+/- 20
HDS 200	200	20	410	+/- 30	+/- 20

conecto PRODUCTION

















conecto REALIZATION









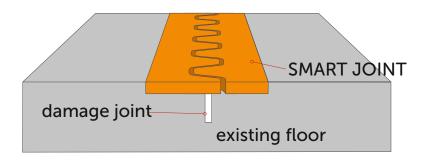








conecto SMARTJOINT



ADVANTAGES:

- Easy installation
- Chemically resistant
- Ultraflat
- No vibration caused by vehicles traffic

Profile type	Module length	Module width	Module height	Maximum width of the existing joint		Compressive strength	Bending strength	Color
SMART JOINT	1000 mm	250 mm	25 mm	29 mm	15 mm	90 N / mm ²	75 N / mm ²	gray concrete
SMART JOINT MINI	1000 mm	120 mm	25 mm	29 mm	15 mm	90 N / mm ²	75 N / mm ²	gray concrete

Smart Joint is a prefabricated joint in composite material that is installed at the old run-down joints. It is suitable to be subjected to a heavy traffic such as industrial. It ensures the flatness and continuity of your floor, and averts premature degradation of your vehicles, and in particular the wheels. It also eliminates bumps and knocks, with undoubted advantages both for the operators, both in order to reduce the occurrence of occupational diseases. It allows vertical and horizontal movements to the floor. It is applied with perfect adherence to the existing support, becoming itself a part of the floor. As time passes it does not deteriorate and does not require maintenance.





I D E A project product



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