

HC-Sinus Slide® Joint (patent pending)

**Revolutionary Jointing solution !!
A 100% Joint free floor is now possible**

- shock - and vibration free crossings
- Operators experience a no joint feeling and a high level of comfort
- Permanent contact between wheel and concrete floor
- For all types of wheels
- Smooth load transfers
- Scientifically tested
- Worldwide references
- Also useful for lasting repairs
- Compliant with the European directive 2002/44/EC concerning exposures of workers to whole body vibrations

**HC sinus slide joints
A new era in industrial
flooring technology.**

HC SINUS SLIDE® JOINTS

Hengelhoef Concrete Joints (HCJ) is a specialist producer of expansion (armour) joints for industrial flooring. Thanks to our knowledge, experience and expertise, we have developed a unique and protected product (patent pending), which has revolutionised the market and ushers in a new era in industrial flooring technology.

The sinus form of the HC-Sinus Slide® joint and the concrete ensures continuous support for passing wheels which enables vibration- and shock free crossings and creates smooth and noiseless load transfers.

Advantages :

- Jointless floor in a operational way
- Smooth load transfers in in a proportion of 60 to 40 %
- Vibration- and shock free crossings. High durability and extended life of the floor.
- Damage to the floor and joint is almost impossible as the cause of the damage (shocks caused by the wheels of the forklift when passing a joint) is eliminated.
- Material handling equipment is also no longer liable to shocks and vibrations. Accordingly there is less wear and expensive repairs are avoided. The life of the equipment is considerably prolonged.
- Useful for all classification of wheels 1 - 5
- The Forklift Operator will now experience an unprecedented level of comfort, whereas traditionally, backache was one of the most frequent complaints and reasons for absenteeism. The Sima Sinus slide® joint complies with the European directive 2002/44/EG regarding exposure of workers to whole body vibrations. Quite simply all vibrations are now eliminated.
- Goods and Materials can now be transported without any shocks and vibrations. This is especially important where transportation of vibration sensitive goods is concerned, such as electronic parts, equipment and chemicals. The Workplace is not only more comfortable but also safer.



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HC Sinus Slide® joint - OPTIMAL JOINTS PERFORMANCE

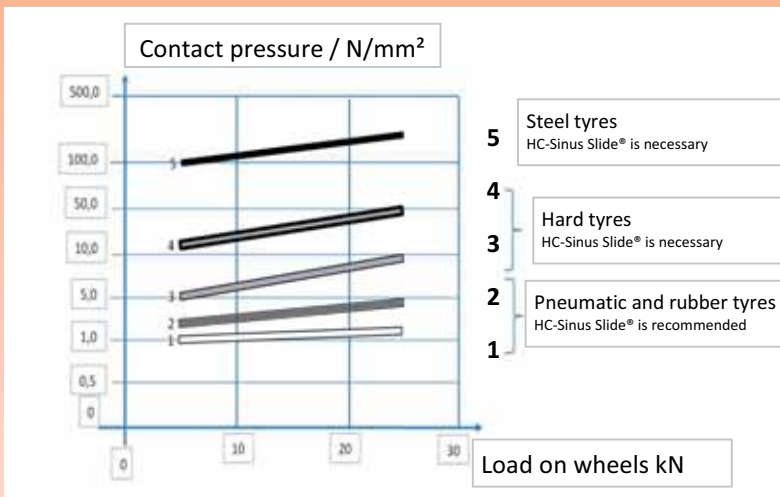
Crucial when passing a joint is the contact pressure of the wheels of the material handling equipment on the floor or joint.

- The heavier the transported goods or charges
- The smaller the diameter of the wheel
- The harder the types of tyre

All the more higher is the wheel pressure = contact pressure

On the diagram are basic values of wheel pressure displayed (values are valid for stand still equipment) In driving state of the equipment the contact pressure must be raised with a factor of about 1,5. The exact wheel pressure can be determined in the user manual of the equipment or with the Herz-method

For the life and the durability of floor and joint is contributory the frequency of the crossings and the wheel pressure on the joint.



Classification of wheels

1. Pneumatic tyre
2. Rubber tyre
3. Vulkollan tyre
4. Polyamide tyre
5. Steel tyre

Classification 1 and 2

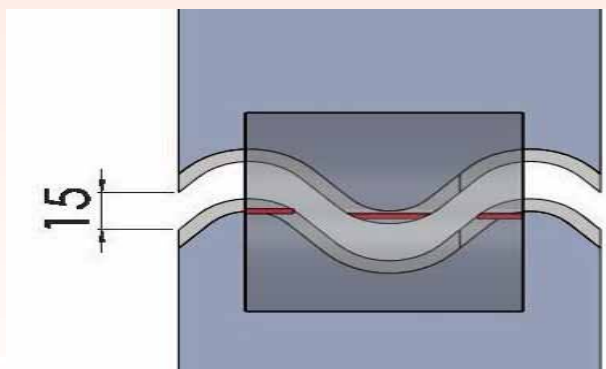
HC-Sinus Slide® joint is recommended (depending from frequency and type of wheel).

From classification 3 is HC- Sinus Slide® joint absolutely necessary

Practical case in distribution centre of Toyota. After 4 years and more then 42.048.000 crossings with hard polyamide wheels the HC-Sinus slide® joints are still in a perfect state.



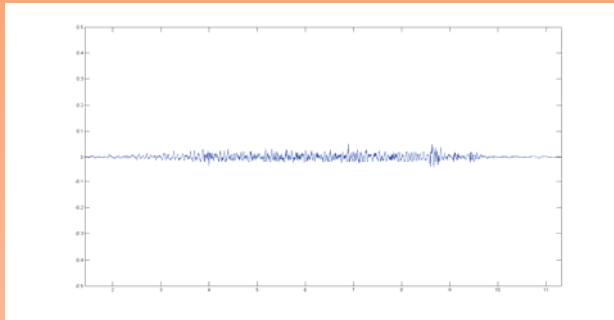
The HC-Sinus Slide® joint generates optimal joint performance wenn the opening size of the joint is up to 15 mm. In this situation the sinus form of the joint and the concrete ensures continuous support for passing wheels regardless of the direction, size and form of the wheel. The permanent contact between wheel and concrete floor creates a smooth and noiseless load transfer that results in users experiencing a feeling of no joints in the floor.



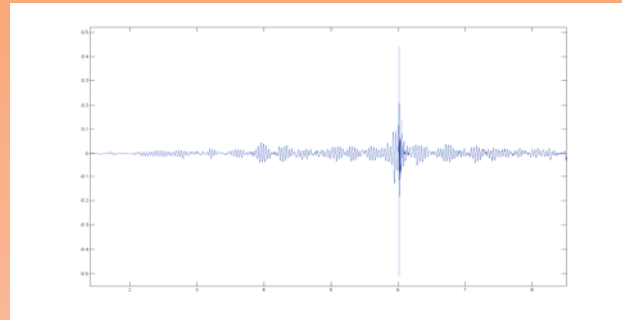
HC Sinus Slide® joint - TEST RESULTS

Scientifically developed tests at the Magel laboratory in association with Ghent university in 2005 (test report n° 2005/616-SM-05-15/PDP) have shown that HCJ expansion joints will withstand very high loads (up to 300 Kn/meter and more) before the concrete breaks. For more details about these tests , including the test set-up, refer to our website www.hcjoins.eu. Design guides for Sinus Slide® products are available on the website to download.

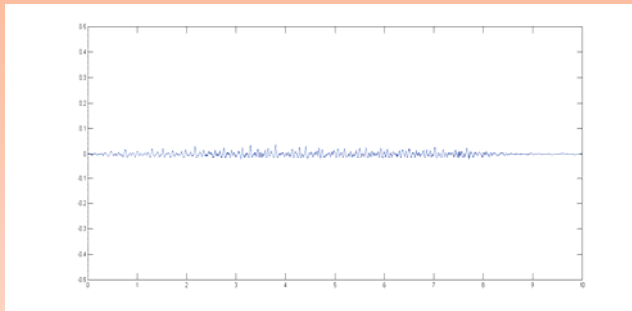
Additional tests carried out in 2010 report number 8-2034.01 have proven 100% vibration free transfers when crossing a Sinus Slide® joint.



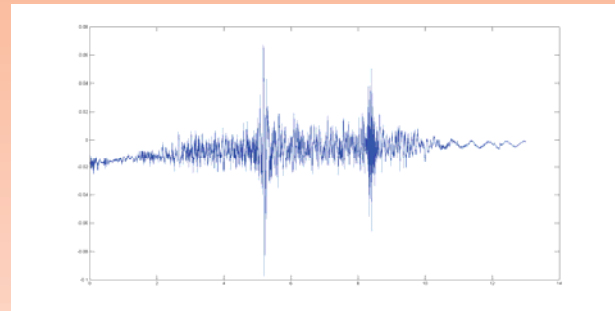
Forklift without load crossing HC Sinus slide® joint
Vibration clearly not existing



Forklift without load crossing traditional straight joint
Vibration clearly evident



Forklift with load crossing HC Sinus slide® joint
Vibration clearly not existing



Forklift with load crossing traditional straight joint
Vibration clearly evident

