

HC-E armour joint

HCJ

nv. HENGELHOEF CONCRETE JOINTS

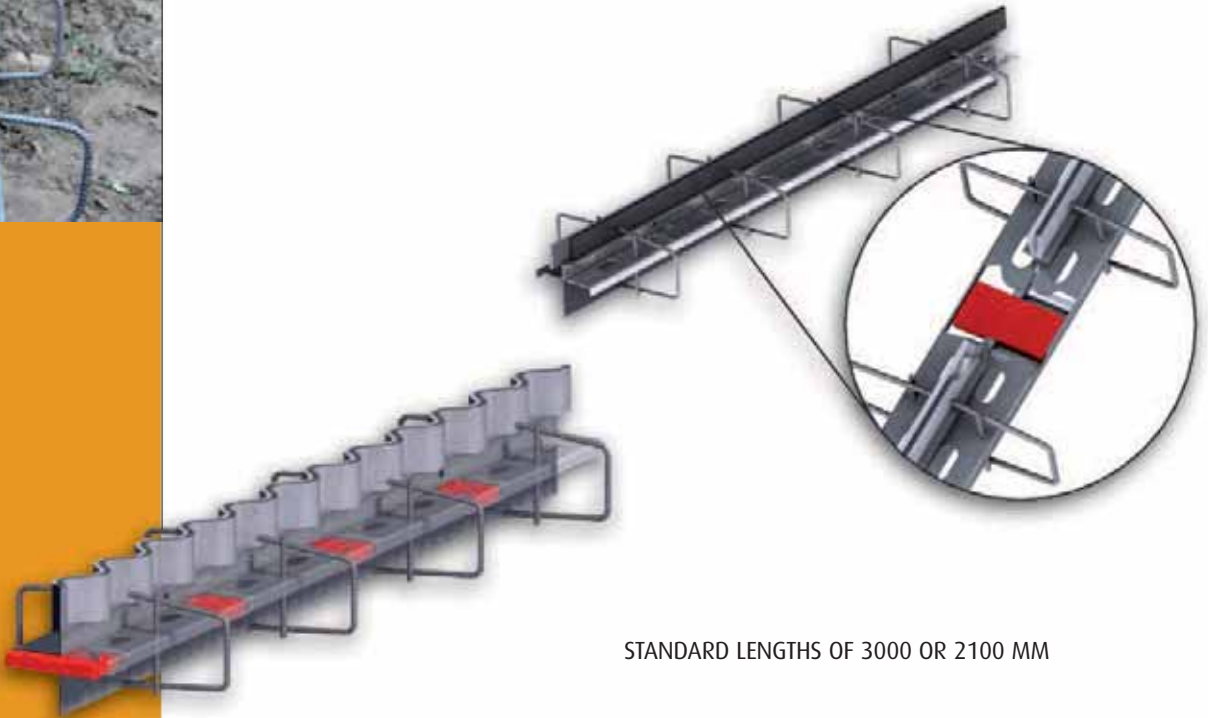
An Economical day- and expansion joint for industrial floors



THE HC-E ARMOUR JOINT

"The HC-E armour joint is a patented day and expansion profile that was developed to provide an economical jointing solution that still retains a high level of performance to provide sustainable protection for your industrial floor.

The detailed design of the joint provides high rigidity and the individually designed anchoring system allows the profile to be easily handled and install efficiently. The patented undulated upper side can also be provided with this solution."



STANDARD LENGTHS OF 3000 OR 2100 MM

TECHNICAL CHARACTERISTICS

- Double steel plate 35x6 or 35x10 mm in drawn steel S235JRG2. Also available in galvanised or stainless design.
- Undulated evenly milled upper side 35x5 in steel S235JRG2. Also available in galvanised design.
- 4 connecting members 50x12x98 mm per metre.
- Rigid structure due to painstakingly lasered and plicated plates with ovate air holes combined with an efficient anchoring system.
- Unique securing system for simple connection and rapid installation without the need for welding work.



SUSTAINABLE ADVANTAGES

HORIZONTAL EXPANSION IN BOTH DIRECTIONS. The detailed design of the profile provides excellent anchorage in to the concrete so that the shrinkage and expansion of the concrete can be accommodated with the joint.

The fitted connecting members **PREVENT ANY VERTICAL MOVEMENT WHATSOEVER** of the floor plates.

The 12mm thick connecting members provide **EXCELLENT TRANSFER OF LOADS** between adjacent slabs without cracking to the jointed zone and increasing durability of the slab

THE PERFECT PROTECTION OF THE EDGE. The upper edge of 6 or 10mm is not distorted from loads generated internally from the concrete or loads externally placed upon the concrete slab. **THE JOINT ARIS IS THEREFORE PROTECTED AGAINST DAMAGE FROM VEHICLE MOVEMENTS TRANSVERSING THE JOINT.** The undulating design of 5mm is **THE ULTIMATE SOLUTION FOR HIGHLY TRAFFICKED AREAS.**

Instructions for installation and appliances available on demand. **NO WELDING WORK REQUIRED.**

The rigid joint profile and unique securing system allows for **SIMPLE INSTALLATION WITHOUT THE NEED FOR WELDING.** Instructions for installation are available on request.

SUITED AS DAY POURING PROFILE. Floor plates can be poured and finished off separately. Allows for flexible day planning.

The HC-E armoured joint provides an **ECONOMICAL LIGHT WEIGHT SOLUTION** therefore reducing associated cost of transport and installation.

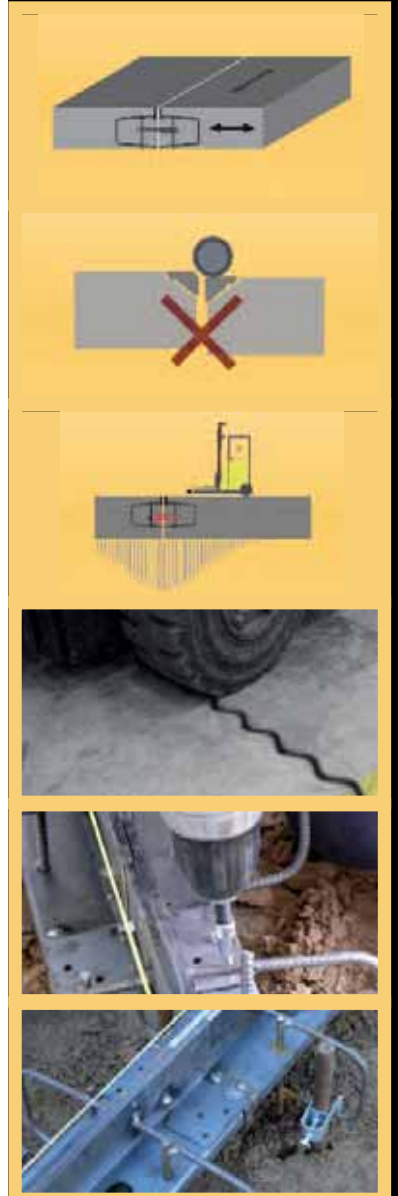
EXTENSIVELY TESTED

TABLE SUMMARY OF TEST RESULTS

Profile type	Opening joint	Composition concrete	Ultimate load capacity
HC-E 150 mm	20 mm	C3037 without reinforcement	137 KN
HC-E 200 mm	20 mm	C3037 with 45kg steel fiber/m ³	137 KN
HC-E 200 mm	10 mm	C3037 with 45kg steel fiber/m ³	228 KN

Before marketing the HC-E expansion joint, this profile had been subjected to science-based tests in order to guarantee its functionality.

These tests have been developed in cooperation with Labo 'Magnet' of the State University of Ghent. The test results demonstrated high load transfer performance of the joint which would meet the requirements of the most demanding loading conditions. The detailed test results are included in our design guide that can be down loaded via our website www.hcjoint.eu





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WIDELY APPLICABLE

- Industrial and logistic centres
- Indoor and outdoor floors
- Floors on the open ground and on founding poles
- Reinforced concrete and fibre concrete
- General sole plates



HCJ is a spin-off in which the production of expansion joints was split off from the metal working company Werkhuizen Hengelhoef. This way, we can guarantee extensive knowledge and experience, and what's more, we provide a framework with optimal conditions for further growth and development. HCJ has been an independent company since 01/01/2007 and specialises in the production of expansion joints and accessories. More than 1.5 million metres of expansion joints have left the Genk factory to find their way to customers all over the world.

Every single day, together with our customers, we seek to implement improvements and more efficient applications. This new HC-E expansion joint is one promising result of this.

Coca-Cola, Ikea, Toyota, Mercedes, Goodyear, Airbus, Schenkers, Prologis, Michelin, GM, Guardian Glass, Bridgestone and many others opted for our expansion joints.

Are you interested to learn more about the HC-E profile or similar products? Phone, email or fax us, or... have a look at our www.hcjoints.eu website.



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