

HC-Omega armour joint

HCJ

nv. HENGELHOEF CONCRETE JOINTS

The most suitable construction/day joint for industrial floors



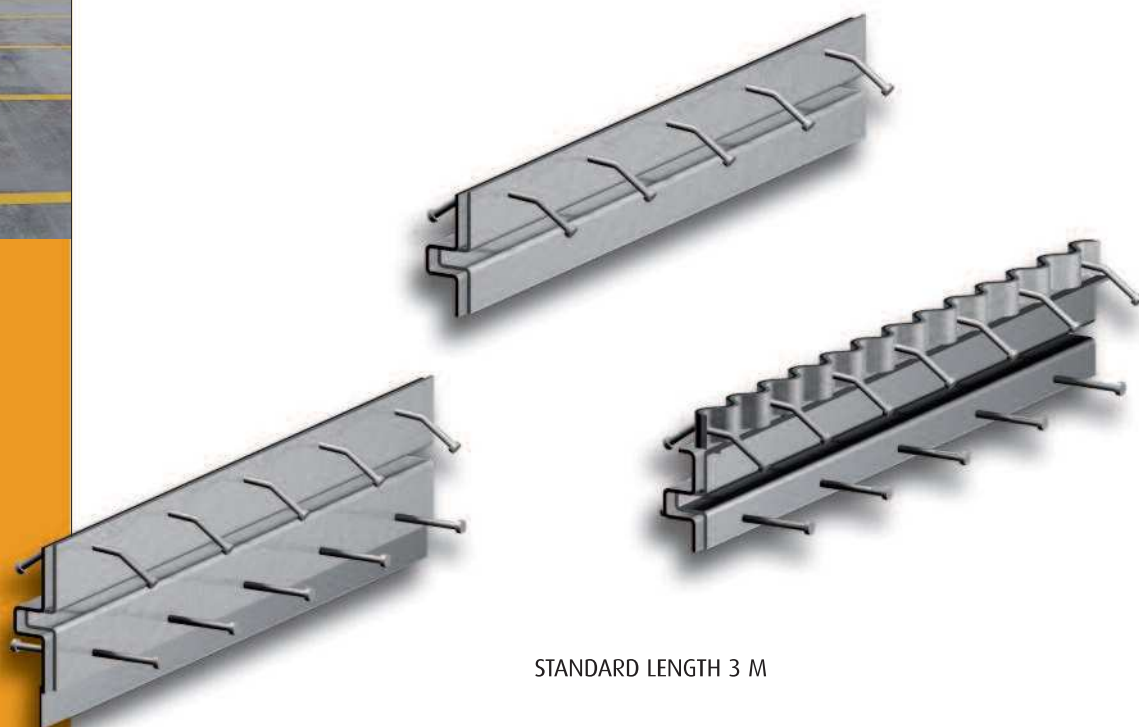
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THE HC-OMEGA ARMOUR JOINT

The HC-Omega armour joint is a day and construction joint that is essential for today's industrial floors. It has been used highly successfully throughout the world since 1989.

The typical omega interlocking connection

offers a number of lasting benefits that improve the quality, convenience and life of your industrial floor considerably. The patented corrugated version developed recently is quite simply the cat's whiskers.



STANDARD LENGTH 3 M

TECHNICAL CHARACTERISTICS

- Profile thickness 5 mm high quality S235JRG2 steel. Also available in a galvanised version.
- Vertical tolerance kept to the absolute minimum
- Milled upper side in straight or corrugated versions.
- Automatically welded anchor bolts $\varnothing 10 \times 125$ mm every 20 cm. Second row of anchor bolts on the lower side available as an option.
- 15 mm overlap for easy connection.
- Uniquely robust structure and special interlocking design.
- Heights from 120 to 300 mm. From 200 mm, second row of anchor bolts on the underside as standard, plus 3 mm steel plate for height setting. Custom versions from 300 mm upwards.



HC-Omega armour joint

LASTING ADVANTAGES

HORIZONTAL MOVEMENT IN BOTH DIRECTIONS.

Automatically welded anchor bolts and the omega structure ensure a solid anchorage in the concrete that takes up shrinkage movement of the concrete slabs in both directions horizontally, which will therefore reduce the risk of crack formation, and can also ideally be used in 'jointless' slab.

The optimum omega interlocking connection and the minimal tolerance between the two profiles **LIMIT ANY VERTICAL MOVEMENT** of the floor slabs. The milled upper side reinforces this effect.

- The anchor bolts and interlocking connection also result in **EXCELLENT LOAD TRANSFER**. This will give a much better support of the slab in these critical areas and extends its life.

THE PERFECT EDGE PROTECTION. The 5 mm thick milled upper edge does not deform under compression by the concrete or other mechanical forces, and prevents the concrete slab from spalling. The corrugated version is the ultimate solution in very heavily and intensely loaded aisle ways.

The rigid structure of the Omega joint makes it **EASY TO INSTALL**. Installation instruction and tools available on request.

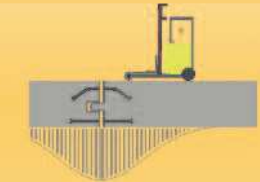
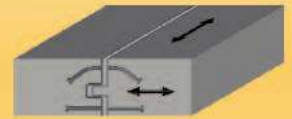
SUITABLE FOR USE AS A DAY JOINT PROFILE. Floor slabs can be poured either up to the joint or continued either sides. Makes flexible daily planning possible..

EXTENSIVELY TESTED

TEST RESULTS ON A TEST-PIECE WITH A 1 METRE BY 20 MM OPENING

Floor thickness	Number of rows of anchor bolts	Concrete class	Maximum load
150 mm	1 row of anchor bolts, upper side	C25/30 without reinforcement	113 KN
200 mm	1 row of anchor bolts, upper side	C25/30 with steel fibres, 40 kg	199 KN
200 mm	2 rows of anchor bolts, upper and lower	C25/30 with steel fibres, 40 kg	300 KN

Scientifically developed tests at the Magnel laboratory associated with Ghent University have showed that HC-Omega dilatation joints will withstand very high loads before the concrete breaks. For more details about these tests, please refer to our website, www.hcjoins.eu.



WIDELY APPLICABLE

- Industrial and logistics centres
 - Indoor and outdoor floors
 - Floors on solid ground and on foundation piles
 - Conventional or steel fibre reinforced concrete
 - General raft foundations
- Custom versions also available**

OPTIMUM PRODUCTION FACILITIES



HCJ is a spin-off that took over the production of armourjoints from the engineering company Werkhuizen Hengelhoef. This means we can guarantee years of knowledge and experience, and we are setting up a framework with optimum conditions for further growth and development. Since January 1, 2007, HCJ has been an independent company specialising in the production of armour joints and accessories.

Already over 1.5 million metres of armour joints have left our Genk factory for custo-

mers throughout the world. Every single day, together with our customers, we are looking for better and more efficient applications.

Coca-Cola, Ikea, Toyota, Mercedes, Goodyear, Airbus, Schenkers, Prologis, Michelin, GM, Guardian Glass, Bridgestone and many others have already chosen our armour joints. Want more information about the HC-O profile or similar products?

Ring us, email us or fax us ... or take a look at our website, www.hcjoints.eu

