



TTMJ NEWSLETTER – March 2019

THE NEW DIAPHRAGM WALL JOINT SYSTEM

(European Patent 2732101 Validated in: France, Germany, Italy & UK. US Patent 9371623. Other patents pending)

TTMJ is the new diaphragm wall joint system allowing greater depths and higher quality joints between panels. More information about the TTMJ Development can be found on the project website: www.ttmj-h2020.eu. To request inclusion on the distribution list for the TTMJ newsletter please email: info@ttmj-h2020.eu

TTMJ FIELD TRIALS

The Field trials of the TTMJ System began in February in Cesena Italy and are ongoing. The performance of the TTMJ trimmer and results from the first trial fully met the development team's expectations. As with all trials there were a couple of minor issues, but these were quickly and simply overcome.

The trials are taking place in a 20m deep rectangular test shaft, normally used for testing hydro-mills. The photograph below shows the first test sample being prepared ready for installation into the shaft. The TTMJ guide tracks cast into the concrete can clearly be seen.



Each test sample is made up of two 10m long concrete beams jointed together as they are lowered into the shaft. Once installed, the jointed beam is secured in place using multiple hydraulic rams.

The next two photographs show the TTMJ Trimmer in position ready to start the first trial and the trimmed concrete surface it produced. The trimmer milled to 19,5m depth.

Five more trimming trials are planned, allowing three different surface profiles and two different concrete strengths to be trialed. In addition to the six trimming trials, there will be a concrete pouring trial, simulating placing concrete into the adjacent diaphragm wall panel, and pull out tests to measure the ultimate restraint provided by the TTMJ track and the strength of the tension connection across the joint.

Once the TTMJ team have carried out the first two or three trials, they will be inviting interested Clients, Engineers and Contractors to witness the later tests.

If you would like to be invited, please email: info@ttmj-h2020.eu



BAUMA

The TTMJ team will be in attendance on the Soilmecc stand at Bauma, April 8th to 14th 2019.

A 3D 1:20 scale model of the trimmer will be on display as well as samples of the guide track and the trimmed concrete. Seminars on the TTMJ System will also be available from 9th to 12th of April. To attend one of the seminars please email: info@ttmj-h2020.eu.

DIAPHRAGM WALL PROJECTS

The TTMJ team are currently looking for diaphragm wall projects, due to start in the second half of 2019 or later, that would benefit from the use of the TTMJ system. Circular shafts are of particular interest. If you have such a project and would like to hear how the TTMJ System can provide a higher quality diaphragm wall at reduced cost, please email: info@ttmj-h2020.eu.



This project has received funding from the European Union's Horizon 2020 research and innovation program under grant agreement No. 720579

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