CoGri Group

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COGRI NEWS

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It's a Deal

Concrete Grinding Ltd made an excellent start to 2010 by constructing the floor for a warehouse extension project for Deal Distribution International FZE in Dubai, United Arab Emirates.

The project was initially discussed back in January 2009 when Deal Distribution International FZE asked FACE Middle East Fzc to design the floor in their proposed very narrow aisle (VNA) extension. At the time, Deal Distribution International FZE were operating a wide aisle facility but wanted to increase the size of their premises and include an 8 aisle VNA operation.

With a racking top beam height of 11.7m, the floor flatness within the very narrow aisles was critical. Deal Distribution International FZE understood that poor floor flatness would mean slowing the VNA truck operations for safety reasons. The decision was made early on that in order to satisfy the tight project schedules, the 3600m^2 floor would be constructed using a Laser Screed and then Laser Ground within the aisles where necessary. To construct the floor using traditional long strip method, where one aisle is cast per day, would have taken 11 days. However, the Laser Screed method could knock 8 days off and complete the work in only 3 days.

FACE Middle East surveying the proposed aisle ways the day after floor construction, using the FACE Digital Appendix C Profileograph

Construction of second slab in progress. Concrete truck and Laser Screed working alongside each other. Smooth output ensures highest quality is achieved with no delays.

Once the design was finalised, the Concrete Grinding team arrived on site early January 2010 and spent 3 days preparing the sub-base within the entire warehouse floor area. Within this time, the concrete mix design was tested and MB Mix were chosen to supply the concrete for the project. Once the levelling and compacting operations were completed, the concrete was ordered and floor construction began. Over 3 consecutive days, 1200m^2 of floor were constructed each day. The finished floor levels were carefully monitored throughout construction and each slab was surveyed the day after casting for immediate feedback.

When the floor construction was completed, FACE Middle East surveyed the floor for compliance with

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Cold Store Floor Refurbishment

Langdon Industries Ltd are a logistics service provider who specialise in controlled temperature operations. Their Bridgwater depot is the centrepiece for their temperature controlled distribution centres throughout the UK. The floor within one of the cold stores was in need of refurbishment to better support their operational requirements.

Working alongside Caer Urfa, Consultancy and Project Management, CG Flooring Systems Ltd were brought in to undertake the floor refurbishment work. After a period of consultation, it was agreed that the work required to upgrade the floor would involve the removal of approximately 15mm of damaged concrete from the surface of the existing floor slab. The floor was to then be mechanically cleaned prior to the application of, Cemart's, Cemdek Industrial Floor Screed as the newly finished floor

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Original floor - mobile racking area

Face Consultants Update

In the last few months, Face Consultants continue to provide valuable services to many flooring projects, which include the following:

In December, FACE assisted a flooring contractor, supervising 3,000 m^2 of floor area for a printing and finishing firm in Porto, Portugal.

FACE carried out Slip Resistance and Abrasion Resistance Testing for a large international distribution company in Guadalajara, Spain.

At a large warehouse facility in Bournemouth, FACE carried out a bespoke level survey to check for settlement of the floor slab and a Profileograph survey at the same premises.

As part of an ongoing contract, FACE surveyed a pharmaceutical facility in Southern Ireland.

In Manheim, Germany, FACE tested floor flatness to DIN15185 specification for Concrete Grinding Ltd.

A Profileograph survey was completed at a distribution facility in Zwolle, Netherlands, and at a large DC in Avonmouth.

FACE carried out Free Movement surveys of a major project in London.

FACE carried out supervision work for a number of logistics companies in the Middle East.

Face Consultants carrying out QA on site

FACE have started surveying a new 55,742 m^2 manufacturing facility in Belfast to FM1 specification. This is part of an ongoing project.

They have also just completed surveying a 56,000 m^2 DC for a major retail chain in Liverpool.

FACE carried another bespoke level survey and consulting works on a floor slab at a large DC in Bristol.

Diving platform (above) and TRL Pendulum Tester being used to carry out Slip Resistance Testing.

FACE carried out Slip Resistance Testing to various areas of a major leisure complex in England. This included the dive platforms, at 3 m and 5 m high.

The FACE team started working for a Spanish flooring contractor which included supervisory work and testing on a large manufacturing facility in Madrid.

They have been visiting a project to carry out QA work on the slab on behalf of a global retailer. The DC's floor area is 1 million square feet (90,000 m^2). This is the biggest facility in the UK at the moment.

In addition, working for a flooring contractor at the same DC, the FACE team have also been surveying the floor slab to check for compliance with FM2 (Special) classification of The Concrete Society's Technical Report No 34 and Accelerated Abrasion Resistance Testing to check compliance with the relevant classification.

Cold Store Floor Refurbishment

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surface. A window was identified in the clients' operational programme and the instruction was received to commence the works.

The racking system within the cold store consists of movable racking which runs on steel rails, fixed within the concrete floor and static racks along perimeter walls. Extreme care had to be taken around the steel rails within the floor to ensure they were not damaged or knocked out of alignment. Another challenge was to overcome the limited floor space available to work on, particularly within the mobile racking area. In order to maximise output of the scheduled works, the fixed racking and one section of the mobile racking were removed, before commencing with the floor works. This increased the size of the open area at any given time and ultimately helped in ensuring the floor works were completed in good time, with a minimum downtime to the clients' operation as was practicable, being achieved.

Beautifully prepared surface shot-blasted and ready for priming

The temperature within the cold store had been increased to approximately 15 degrees centigrade and this allowed ideal environmental conditions for the application of the floor screed. However, it did make for some hot working conditions when all the preparation equipment was up and running. Once all pre-start requirements had been met the project got underway. The first stages involved isolating the steel rails and removing approximately 200 bolts from within the floor. The damaged concrete was removed from the surface by the road planner, undertaking a number of controlled passes over each area of the floor. The newly exposed concrete was then mechanically cleaned by captive enclosed shot-blasting, before the industrial floor screed was applied at a nominal thickness of 15mm.

Floor Screed laid in Mobile Racking Area

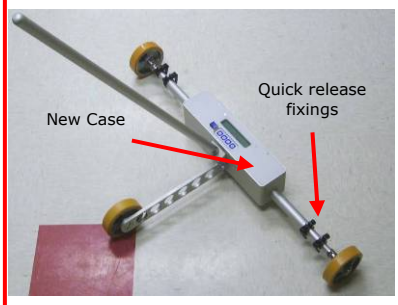
This project was technically and physically demanding and the 1,088 m^2 was completed within 8 days. The success of the installation is due in no small part to the appointment of a specialist industrial flooring contractor, whose knowledge and understanding of concrete industrial floors is invaluable. The Supervisors and Technicians demonstrated excellent teamwork, perseverance, commitment and pride to ensure the delivery of a quality installation for the client. Coupled with the strong and understanding relationship forged with the appointed consultant, enabled the project to be completed with a minimum of fuss.

Images are shown with slight yellow tints due to the industrial lighting used.

Technical Developments

Justin Hanks, Service Engineering Manager, and his team, Kevin Greenwood, Robert Stockdale, David Crookes, Neil Longbottom and Matthew Munro have been working on enhancing the FACE digital devices and the Laser Grinder® .

On the FACE Digital equipment, the team have been working on the Transverse Meter and FACE Digital Profileograph.



New Transverse Meter

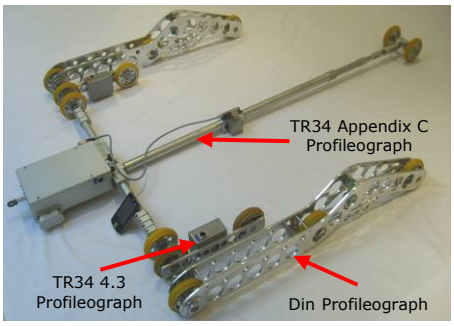
The Transverse Meter redevelopments include exterior and interior redesigns, namely:-

- The new case is made from one solid piece of aluminium construction with an anodised finished. The redesign aims to improve aesthetic quality and style.
- The display panel is made larger for improved readability.
- A battery saving feature is added so that it automatically switches off if left unattended.
- Auto off mode - kicks in if the machine is left idle. This is particularly useful if the Transverse Meter was accidently switched on whilst in its storage case.
- New microprocessors are installed to simplify functionality and to provide more detailed, clearer instructions.
- The new designs have also reduced storage space and weight which in turn reduce packaging and shipment costs.
- Quick release fixings added to the adjustable axels for ease of use.

The FACE Digital Profileograph:-

There are currently three different types of FACE Digital Profileographs; TR34 Appendix C, TR34 4.3 and DIN Profileograph. Each has its own main vehicle and rear measuring assemblies.

The new FACE Profileograph will have one main vehicle that can be used with all interchangeable components to suit the required floor flatness specifications. This will not only improve functionality but will also reduce costs. Other new features include:



The new FACE Profileograph with the three interchangeable assemblies

- The rear assemblies have been redesigned to improve storage space.
- Less storage means less packaging and freight costs.
- Electronics, processors and computer are upgraded to bring all elements up to date including blue tooth downloading.

The Laser Grinder® is currently undergoing it's most radical modification since its development nearly 20 years ago. Although every Laser Grinder® built in the last 20 years (15 to date) has had modifications and improvements, the Latest Laser Grinder® will be a far cry from it's predecessors.

Although the Laser Grinder® has ground 100's of 1000's of linear metres of Narrow Aisle floors to 'Superflat' specifications, the latest modification will result in floors being 'Ultra Flat' with transverse differences near to zero.

In addition to the modifications to improve flatness, the latest machine will have additional features:

- An on board computer to cut a longitudinal profile to suit the clients needs without change points.
- The modifications will improve the speed of operation.
- Although the Laser Grinder® is powered by one of the cleanest diesel engines on the market and for the past 15 years had the benefit of a catalyst converter to scrub the emissions further, the latest machine will have a DPF that will reduce the particulates a further 85%.
- The cutting tools have been re-developed to provide a faster and smoother cutting rate.

The latest Laser Grinder® will still maintain all the best features that allows the grinding operations to take place in a busy operational warehouse including:

- Clean and dust free.
- No residual slurry or water left on the floor.
- No 3 phase electric cables laying in water or running across busy transfer aisles.
- No water pipes running out of the aisle into the transfer area.
- No surprise electric bills for the clients or the need to hire high output generators.
- Peace of mind with 20 years Laser Grinding history behind us.

Future developments include an electric version of the Laser Grinder® where clients require this but accept the risks associated with 3 phase cables running on the floor.

The latest Laser Grinder® will be carrying out it's first project in a few months.

Newscast from Korea

After a cold winter in Korea, Spring is finally here and LGA Logis is back in action constructing concrete floors of the highest possible quality for its valued Clients.

Two flooring projects are currently in progress including a 11,000 m^2 Slab On Grade floor for a Publishing company which includes a significant area of floor to be constructed to the TR-34 (2003 Superflat) specification. The second project is a Concrete Topping slab being constructed for a multinational digital display company. The second phase of floor upgrading is for an AGV (Automated Guided Vehicle) system and follows the first phase constructed by LGA Logis in 2008.

To support the anticipated projects coming in 2010, LGA Logis will be increasing its Project Team numbers. To start with on 1st March, an experienced Laser Screed operator will be joining LGA Logis. LGA Logis is also looking to employ a Marketing Executive in early 2010.

In addition, LGA Logis is currently busy with relocating its company store. This will include moving the materials, equipment and tools to a bigger and better site near to the office.

In 2010, LGA Logis will also be looking to organise two more seminars following the success of the Steel Fibre Slab On Piles Seminar in 2009.

Picture right: New storage site.

New CoGri Group Website

The CoGri Group website has completed its site enhancement plan and now offers visitors more information about Group Companies and services.

We hope the new site will help visitors to identify the area of services required and read about the projects we have assisted.

The CoGri Group are a consortium of international industrial floor solution specialists. With 20 years global experience in the Design, Construction and Upgrading of Industrial Concrete floors, the CoGri Group offer a complete package solution for the construction, enhancement and repair of warehouse, commercial & industrial floors.

To view, go to www.cogrigroup.com

Multimodal 2010

The CoGri Group will be exhibiting at Multimodal 2010 and would like to invite you to visit us at the NEC Birmingham on 27 to 29 April 2010.

We will be on stand 332, Hall 4, UKWA Lounge.

We would like you to visit us as our VIP. To register for free, please visit http://www.cts-online.co.uk/shows/multm10/ and enter our promotional code **VIPCGL1**.

We look forward to meeting you.

It's a Deal

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Finishing and preparation for the next floor slab

both Free and Defined Movement specifications. It was found that the floor easily complied with the TR34. FM2 (Special) specification. This proved a good quantity of flatness and levelness were achieved.

To test for compliance to the TR34. DM2 specification for VNA operation, the aisle centres were marked on the floor at either end of the 8 aisles and the FACE Digital Profileograph used to survey the floor within the wheel tracks of the VNA trucks. The exact amount of grinding needed to bring the floor in to compliance with the DM2 specification was then calculated and saved.

The Concrete Grinding team demobilised and allowed the other contractors to work on the project. The lighting, air conditioning and finally the racking are currently under construction. Once these are completed, Concrete Grinding will return to site and grind the floor within the aisle using the survey data calculated.

This project is very similar to those completed in Greece for IKEA and Violex. In this case the concrete Grinding team were the flooring contractors and provided the floor as one complete package solution to the client.

Mr. Nayef Khoury, Managing Director of Deal Distribution International FZE commented, "I was truly impressed with the professionalism, dedication and execution of the Superflat flooring project managed by M/S Concrete Grinding Ltd/FACE Middle East Fzc. The outcome is indeed state of art. Quality, Precision and Efficiency have been proven by them all through the process. For our forthcoming projects, we will not hesitate to request their services as now we are certain that we have gained a trustworthy service provider."

New Appointments

The CoGri Group welcomes Fannie Teo to the team.

Fannie Teo joined CoGri Asia Pacific Pte Ltd, the CoGri Group's Singapore Office, in January as their Marketing Executive.

Ms. Teo holds a Diploma in Business Admin (Marketing) and has 3 years of Marketing & Communications experience in various industries.

Coming from a business to consumer targeted background, Fannie has vast experience in advertising, public relations, branding, promotional activities and events management.

Working closely with the CoGri Group Marketing Manager, Ms. Teo's role is to increase CoGri Asia's visibility and brand awareness in the market as well as to strengthen communications within the Group.

The MoonWalk Edinburgh 2010 for Walk the Walk

Lynn Dare, Louise Wibberley, Gemma O'Toole and Lara Dare from the CoGri Group Accounts Department are joining other members of the local Colne Valley Ladies Circle, Val and Kate, in a bra clad 26.2 miles marathon walk around Edinburgh on 19th June 2010 to raise funds for Breast Cancer Research. Another Colne Valley member, Hayley, is joining them as a volunteer on the night, hopefully keeping the team going in the right direction.

From left: Louise, Lynn and Gemma

The MoonWalk is organised by Walk the Walk charity and starts from midnight. Walk the Walk is not only committed to raising money and awareness for vital breast cancer causes but are also passionate about encouraging women and men to become healthier, fitter and to take charge of their own well being.

Lynn, Louise and Gemma have already started their training with short walks during lunchtimes and longer walks at the weekend. They are hoping to finish in less than 7 hours.

If you would like to sponsor them, you can do so online at www.walkthewalkfundraising.org/cvlc_cogri_girls

The girls would be grateful for any donations, small or large to make all the training, sweat and blisters worthwhile!!!! So please dig deep and sponsor whatever you can.

For more information about Walk The Walk Charity, please visit www.walkthewalk.org

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