

LEONI *projectreport*

Safety technology 8/2011



BETAflam® and BETAfixss®
Complete solutions for
building and infrastructure
cabling

Business Unit
Infrastructure & Datacom

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Erasmus MC

Erasmus MC, Rotterdam NL

BETAflam® and BETAfixss®
Providing secure connections for the future

Safety and capacity are given the highest possible priority at Erasmus MC in Rotterdam. Not only did the clients for the comprehensive new build and extension work at this hospital in Rotterdam use tried-and-tested BETAflam® safety cables and the BETAfixss® cable laying system, they were also able to take advantage of the long-term experience of the LEONI Infrastructure & Datacom business unit.

Erasmus MC in Rotterdam was built in 1840 and became a university clinic in 1967. With a capacity of more than 1,320 beds, this is the largest UMC in the Netherlands. The recently-completed new construction/expansion project at the clinic has released more capacity and brought the infrastructure up to date.



Erasmus MC, University Medical Center, Rotterdam (NL)

High demands on the infrastructure cabling system

The project management for the fire alarm and voice alarm system was entrusted to a local firm of safety experts, in conjunction with Cable Master, which is a LEONI partner company. The overall project involved more than a simple new build, and the demands on the cabling and the need for a flexible solution were therefore also correspondingly high. Faultless supply at the maximum level of performance is absolutely vital in the clinical area in particular, and security of supply must be maintained for as long as possible, even if a fire should occur. Only quality products with the highest possible safety specifications could therefore be considered for this application.

In order to be ready for any future expansion of the networks, and the increase in the use of digitalisation in medicine (e.g. in relation to imaging processes using X-rays, MRI, CT etc.), the performance of the solutions used here also had to be future-proof. To meet these demands in full, and to maximise the efficiency of the project, the designers used two particular LEONI products: the well-proven BETAflam® safety cable and the BETAfixss® cable laying system. Used together, these provide an adaptable installation module that can be used very flexibly.

The optimum, secure, complete networking solution

This use of the BETAflam® safety cable as the major backbone for a problem-free energy supply, and as the carrier for the main brunt of the data flows, places an important responsibility upon LEONI Kabel. The choice of power cable is backed up by many years of experience, continuous development and full certification. The hospital sector requires cables that are free of halogen, as well as non-toxic and low-smoke if a fire occurs.

Having featured in our range for over 20 years and been subjected to further development in the LEONI Infrastructure & Datacom business unit's own fire labs, BETAflam® safety cables meet all the internationally-recognised regulations and standards. The corresponding cable-laying systems and fixing materials have also been tested and certified in various combinations under practical and standardised conditions. The approval and installation regulations are documented by a DIN 4102 Part 12 test certificate.

In practice, the priority is to use an approved fixing system that provides a range of installation options and can be modified to suit the varying situations encountered around the building.



BETAfixss® Insta-Clic cable duct

The LEONI Infrastructure & Datacom business unit aims to be ready to meet the demands of the future flexibly right now. At the Erasmus MC, the new BETAfixss® Insta-Clic cable duct was chosen as a basic support because it satisfied the requirement for cable ducts that could be flexibly installed, and gave a perfect finish.



Thanks to its metallic cover, Insta-Clic cable duct protects the installed cable from external damage. The standard set of shaped parts can span joints between buildings and protrusions without costly modification work, and they produce a visually clean solution for an immaculately-laid cable.

BETAfixss® Insta-Clic System E30-E90 2-in-1 multiple cable holder and cable duct

Take a glance inside the Insta-Clic cable duct to discover these important details:

- The open bracket greatly simplifies the cable laying process, but still retains the cable perfectly in every situation, even during a fire.
- The cover works with a single click – no costly screws.
- Unlike clip fixings, the BETAfixss® Insta-Clic cable duct acts like a multi-cable holder – no need for a particular diameter for each individual cable.
- Out of sight, but still important: functional endurance to DIN 4102-12, tested at levels E30, E60 and E90. The complete installation, with cover (cable duct) is also tested and approved for use as an individual support for open cable laying.



LEONI's Infrastructure & Datacom Business Unit...

...supplies complete networks for the power and data sector, with the emphasis on safety and performance. The Infrastructure & Datacom Business Unit has successfully met the challenge of the growing demand for bandwidth and increased standards in product lifetime and safety.

These days, building and traffic infrastructure poses considerable challenges with regard to fault prevention and fire protection. Contractors and consultants take these challenges seriously: buildings such as hospitals, event venues and office complexes are equipped with higher-order safety technologies. This ensures that people will be able to save themselves in the event of a fire, and enables the damage resulting from successful fire-fighting interventions to be minimised.

While the new challenges presented by ever more complex applications certainly threaten the infrastructure, it is imperative that the highest level of safety is guaranteed everywhere else too. Our BETAflam® products meet all the relevant international standards for both high-rise and underground constructions.

We aim to exploit our commitment and our consulting services to reach optimum solutions, in collaboration without customers – but, more importantly, we want to build confidence. We have pleasure in giving you a glimpse of our achievements in the references.

