

# LEONI *projectreport*

Safety technology 4/2006



BETAflam® und BETAfixss®  
Safety cables and laying  
systems.

For personal safety and  
protection of property.

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Infrastructure & Datacom

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## HSB Turning Torso, Malmö

### Safety as top priority with fire alarm cables from LEONI

**Skyscrapers are buildings in which safety has top priority. Large numbers of persons and valuable items need to be protected in dangerous situations.**

Fire zone concepts, escape routes and other safety precautions for purposive and rapid evacuation of people must be considered and implemented meticulously in advance. These systems must work perfectly in the event of an emergency:

- **signal and alarm systems**
- **emergency lighting**
- **smoke extraction**

The pressurised water supply of the sprinkler rising main must also be guaranteed for safe intervention of rescue services and fire fighting teams.



West Harbour Malmö – the high rise tower of Santiago Calatrava

## Impressive features of the “Turning Torso”

The striking «Turning Torso» skyscraper of the HSB apartment building company in Southern Sweden has many impressive features: 56 floors, luxuriously designed apartments and offices. «Turning Torso» has an exclusive architecture:

**Spiralled like a corkscrew, the white sculpture rises up almost 600 feet above the Baltic Sea.**

## Clear specifications

The investor HSB and the Öresund Safety Advisors, Malmö responsible for the fire safety gave clear specifications for the outfitting of the building: Division of the building into six fire sections (max. 12 floors), fire walls F60, ten alarm zones for targeted evacuation announcements, two separate stairways with protected connecting corridors every six floors, “distributed intelligence” by monitoring systems in the technical rooms every 12 floors, redundant intercom connections for managing rescue measures.

What could be more obvious for the responsibility-conscious technical management than to contract the work to capable companies and to watch them closely during its execution?

Our customer, SAC Electronics, a provider of public address and alarm systems, has a convincing system for the acoustic outfitting of large buildings. SAC was entrusted with the delivery of the public address equipment (loudspeakers) and control cabinets thanks to its great capabilities and specialisation in safety. Wherever ceiling speakers are installed in the building, SAC Electronics is behind them.

### This is where we comes in:

SAC Electronics connects the central exchange, the technical rooms with the amplifiers and the loudspeakers to each other by cables which must work perfectly in case of fire. BETAflam® signal cables JE-H(St)H FE180 were therefore laid for fire chief microphone lines.

In other projects of SAC Electronics BETAflam FE180 safety cables are used as speaker cables in addition to the BETAflam JE-H(St)H cables for fire microphones.

In the globally orientated economy increasingly complex infrastructure buildings are a great challenge.

**The Infrastructure & Datacom business unit is able to meet the highest demands, deliver cables with fire safety approvals and make a major contribution to safety in civil engineering**