



## Success for Sauter on the Formula 1 racetrack in Istanbul.

New racetracks are playing an increasingly important part in Formula 1. Last year, the spotlight was on Istanbul: on 21<sup>st</sup> August 2005, the premier league of motor racing went into action at Turkey's first Grand Prix. The backdrop was equally impressive in terms of scenery and noise, because the new circuit (inspired by Spa-Francorchamps) is located in a hilly area.

The project was implemented by EVREN® Engineering and Construction on behalf of the owner, FIYAS, an organisation of Turkish business associations. The track is located on the Asian side of Istanbul near the Istanbul – Ankara motorway. It is also close to Istanbul's recently-completed Sabiha Gökçen airport.

### State-of-the-art construction

The facility covers a total area of 2,215,000 square metres. The length of the racetrack (which is driven anticlockwise) is 5333 metres, with a width of 14 to 21.5 metres. Eight left-hand and six right-hand bends are linked by four straight sections; the speed attained during the race on the fastest straight section was 329 kph.

### Spectator-friendly design

20,000 parking spaces for visitors are available on the outer ring road which carries traffic around and to the racetrack. There are also service roads and emergency routes near the track. Two tunnels and three footbridges link the standing accommodation and the temporary grandstands with the parking areas. A go-kart track is to be built in the infield at a later stage.

The main grandstand has space for 30,000 spectators. Together with the standing accommodation around the track and the temporary grandstands, there is room for 155,000 spectators.

The two-storey complex of main buildings accommodates the Formula 1 teams downstairs, with VIP lounges above offering another 5000 spaces for spectators. Two seven-storey VIP towers are located at either end, with a ground area totalling 7392 m<sup>2</sup>.

### Sauter – a player for the teams and the spectators

Sauter set the pace in the qualifying 'heats' to supply the building automation system for the box and the VIP zone. Based on the EY3600 novaPro system, all areas of the main building are controlled in accordance with the specific requirements of racing operation, with its special safety aspects. The nature of the facility means that there are large numbers of devices such as smoke detectors and exhaust fans, as well as mixed-air and fresh-air systems.

The inauguration of the racetrack on 21<sup>st</sup> August 2005 was marked by success not only for Kimi Raikkönen and



Two members of EMO Istanbul's staff

the McLaren-Mercedes team, but also for Sauter. And on 27<sup>th</sup> August 2006, the Formula 1 drivers will be battling for placings and points for a second time on the Istanbul racetrack.

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### The key project data

These are the key data of Sauter's building management system for the main complex and the VIP towers, with a total area of 32,600 m<sup>2</sup>:-

- 8 heating/ventilation pumps
- 12 100% fresh-air systems
- 14 mixed-air systems
- 24 exhaust fans
- 6 roof ventilators
- 30 circulation pumps
- 59 smoke alarms
- 115 FCUs, thermostat-controlled
- EY3600 novaPro
- 1342 addresses
- 44 EYR 203 novaFlex automation stations