



# EPIC SANA LISBON



**LISBON, PORTUGAL**  
EUROPE/MIDDLE EAST/AFRICA

Part of the Azinor Group - an international trading company - Sana Hotels currently owns and operates a total of 13 hotels, one in Berlin, Germany, one in Luanda, Angola and the rest in Portugal. Sana Hotels aims to offer guests a unique holiday experience with each one boasting a set of exclusive concepts and its own distinct personality.

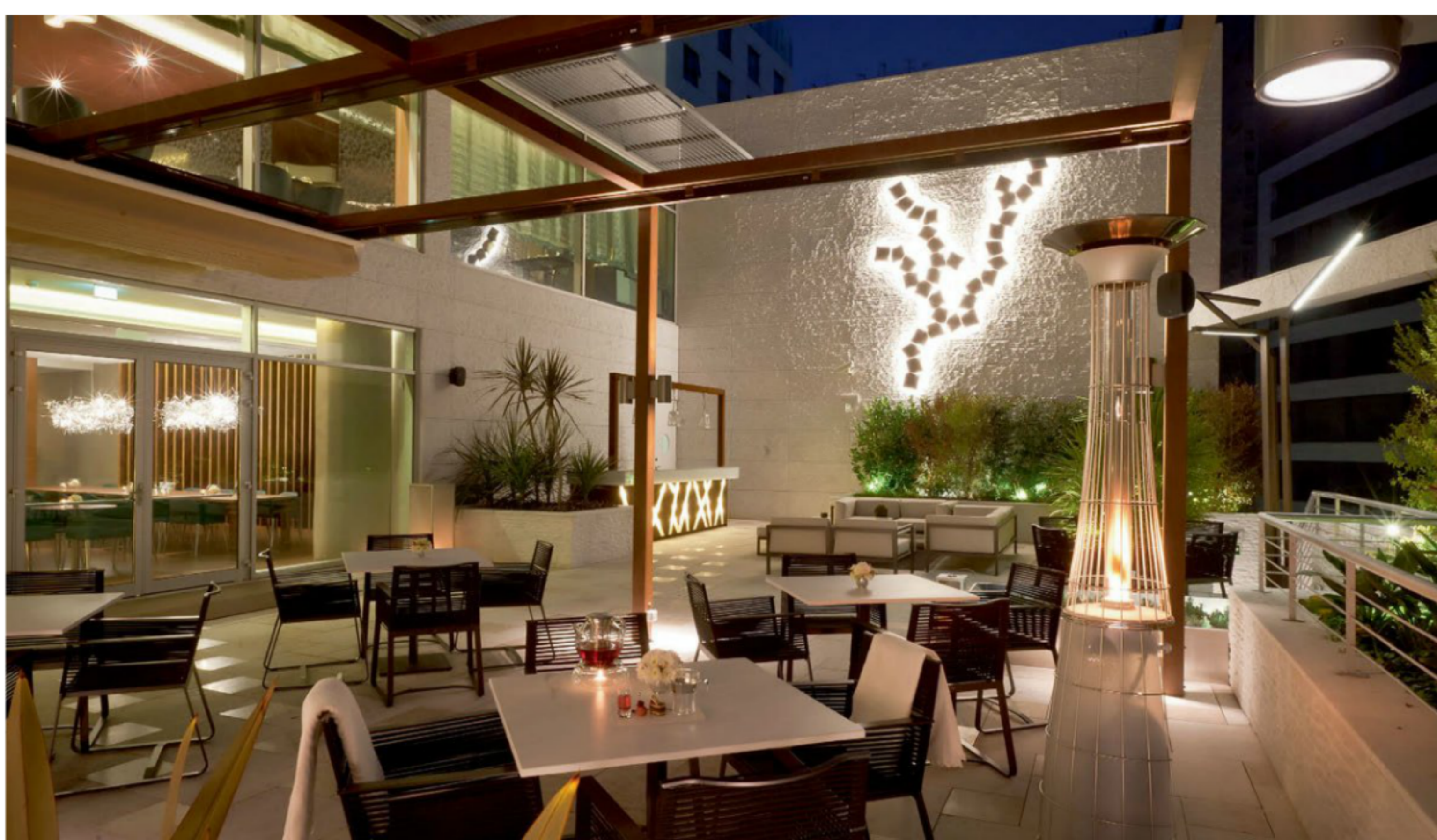
One of the newest additions to the chain is Epic Sana Hotel in Portugal's capital city of Lisbon. Located in a prime location, close by to Marquês de Pombal Square, Avenida da Liberdade and the Baixa District, the hotel includes 311 rooms and all the usual services and facilities you would expect to find at any five-star complex. In line with the high-end finish of the hotel and the expected clientele, a state-of-the-art audio system was required. A discreet technology package was needed to provide public address facilities, as well as atmospheric audio to the bar and restaurant, the corporate rooms and the communal areas. Veteran supplier, Garrett Audiovisuais - which had an existing relationship with the hotel chain through supplying audiovisual equipment for previous hotels - was the

obvious choice when it came to equipping Epic Sana Lisbon. Garrett Audiovisuais met with the hotel and technical directors to discuss ideas, before presenting a number of designs to the architectural department.

Commercial Director of Garrett Audiovisuais, Raul Fernandes explained the task: "Sana Hotels wanted a solution that would go beyond a traditional public address system. The equipment needed to be high quality in the communal areas of the hotel, as they would be frequently occupied by customers, and in addition the system needed to fulfil safety regulations. The new audio set up also had to have the ability to accept local radio inputs that would be broadcast in certain areas of the hotel, as well as have a central management point." Raul set about splitting the sound system for the hotel into zones, so that he and his team could focus on providing the best solution for each individual area. The public address system incorporates the lobby, the restaurant, the bar, the outdoor swimming pool, the well being spa, the lifts and the main access corridors, and these areas have been kitted out with a combination of in-ceiling loudspeakers and wall-mounted loudspeakers from Genelec and RCF. Genelec 4030A bi-amplified loudspeakers dominate the lobby and bar area, these loudspeakers are housed inside the company's minimum diffraction enclosures, which thanks to their rounded edges and

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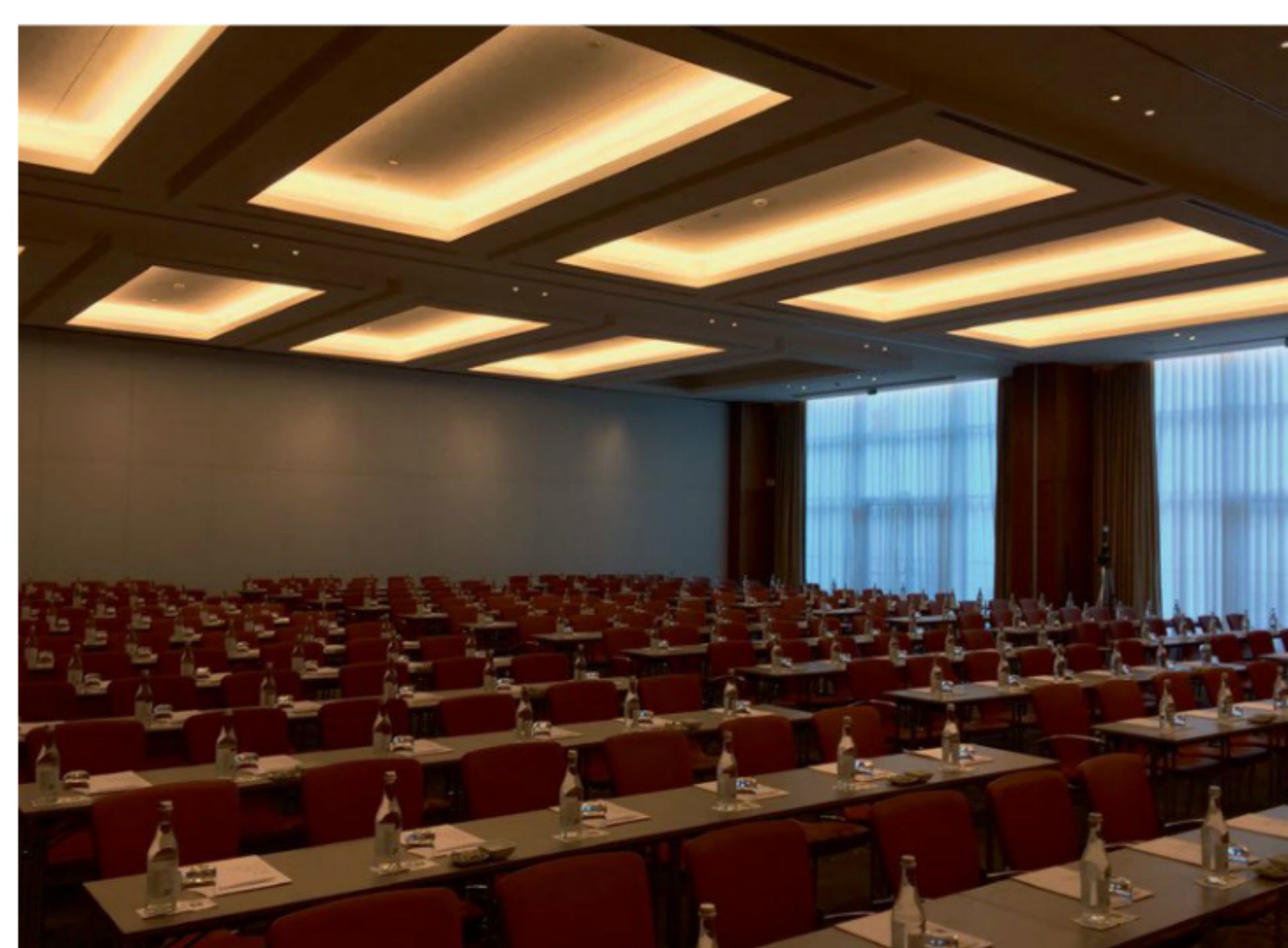
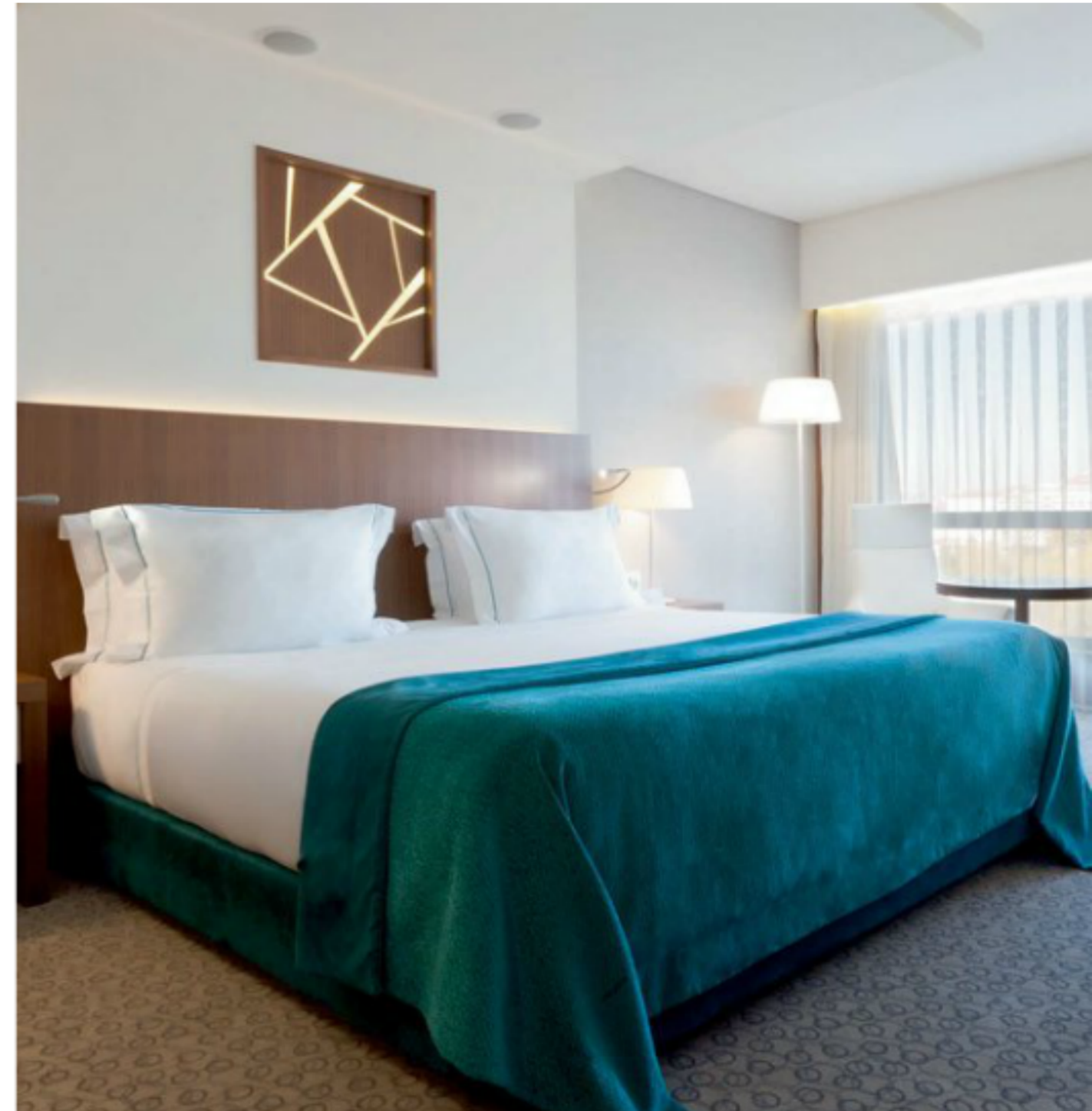
sleek curves are well equipped to produce a very smooth frequency response, while minimising cabinet edge diffraction at the same time. Raul said of the Genelec products: "We use Genelec loudspeakers because of their sound quality, efficiency and reliability."

A total of 10 Genelec 8020A monitor loudspeakers are at home in spa and gym on level -2. "The choice of the equipment was partly on good performance within an installation, however, we also considered the programming of the system - taking into account networking, control, matrices and EQ - which had to be carried over a period of time including when the hotel was already open to the public," continued Raul.

Elsewhere, in the ground level bar, are 14 Genelec AIC25 in-ceiling loudspeakers, which because of their carefully dimensioned en-

closures, allow ample control of bass reproduction. Pedro Santos, Technical Director at the hotel commented: "Being a five star hotel our customers are very demanding and they set us new challenges on a daily basis. We need to meet those challenges. The new sound system had to be up to the task, without compromising on quality or reliability, and be able to perform even under harsh conditions."

The rest of the public address system is made up of loudspeakers from Italian manufacturer, RCF. A total of 30 RCF BD 2412EN bi-directional sound projectors and 61 RCF DM 61 two-way compact loudspeakers have been installed in the stair wells and parking area. These sit alongside 353 RCF PL 8X coaxial ceiling loudspeakers, 311 RCF PL 40 flush mountable ceiling loudspeakers, 44 RCF MQ 50C lightweight ceiling loudspeakers, 27 RCF WS 620XT



waterproof ceiling loudspeakers and 11 RCF PL 6X coaxial ceiling loudspeakers that have been installed along the room corridors, the spa and the event space foyer. "The systems are on 24/7 providing background music, but from Wednesday to Saturday we have bands, where the loudspeakers in the ceiling of the bar work as the main PA," continued Pedro.

With the exception of the Genelec loudspeakers - which are self powered - Lab.gruppen's C Series provides amplification for the RCF loudspeakers. A total of 11 Lab.gruppen C 10:8X eight channel amplifiers, five Lab.gruppen C 10:4X four channel amplifiers, a Lab.gruppen C 16:4 amplifier and a C 20:8X amplifier provide ample power. "These amplifiers provide high sound quality, can be remotely controlled, offer a five year warranty and are extremely reliable," commented Raul.

For loudspeaker management control and DSP, Raul turned to Ateis' LAP G2 network audio processors, which feature a DSP audio matrix for multizone audio routing, the idea tool for Epic Sana due to its number of audio zones.

Raul said: "We have used this brand in the past and achieved good results, mainly due to the constant evolution of the brand. The last generation of products from Ateis has an excellent quality to price ratio."

There are eight congress rooms and five corporate rooms at Epic Sana, which collectively cover an area of 1,760 sq metres. The rooms are spread across two floors and are easily adaptable for a

## TECHNICAL INFORMATION

### SOUND

**PUBLIC ADDRESS:** 12 x Genelec 4030A bi-amplified loudspeaker; 10 x Genelec 8020A monitor loudspeaker; 14 Genelec AIC25 in-ceiling loudspeaker; 30 x RCF BD 2412EN bi-directional sound projector; 61 x RCF DM 61 two-way compact loudspeaker; 353 x RCF PL 8X coaxial ceiling loudspeaker; 311 x RCF PL 40 flush mountable ceiling loudspeaker; 44 x RCF MQ 50C lightweight ceiling loudspeaker; 27 x RCF WS 620XT waterproof ceiling loudspeaker; 11 x RCF PL 6X coaxial ceiling loudspeaker; 36 x Russound Acclaim 5B55 ceiling loudspeaker; 28 x Russound Acclaim 5C82 ceiling loudspeaker; 11 x Ateis LAP G2 network audio processor; 11 x Lab.gruppen C 10:8X amplifier; 5 x Lab.gruppen C 10:4X amplifier; 1 x Lab.gruppen C 16:4 amplifier; 1 x C 20:8X amplifier  
**CONGRESS ROOMS:** 71 x Genelec AIC25 in-ceiling loudspeaker; 5 x Ateis LAP G2 network audio processor  
**CORPORATE ROOMS:** 12 x Russound Acclaim 7C72 ceiling loudspeaker; 5 x ACM iCOM 2X20 amplifier

### VISUAL

**CONGRESS ROOMS/CORPORATE ROOMS:** 9 x Samsung LED LCD screen; 10 x NEC NP-P420X video projector; 1 x Extron MVX 128 VGA A video matrix

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