excelitas® | NobleLight®

Carbon Infrared Emitters for Energy-Efficient Embossing

Carbon infrared (CIR) emitters from Excelitas Noblelight are helping Polyflor of Manchester to improve the quality of their flooring products and improve dimensional stability during the embossing of their range of heavy duty homogeneous floor coverings. As a quality-driven organization, Polyflor decided to investigate its embossing process, which had previously used short-wave infrared units to soften the 2m wide PVC web before being embossed with decorative patterns. However, short-wave infrared proved very color-selective and geometric integrity was occasionally affected during heating.

FEATURES

- 2 m wide PVC web
- homogeneous floor coverings
- dimensional stability during embossing

TECHNICAL DATA

- carbon medium-wave emitters
- carbon infrared system

To address this issue, Polyflor approached Excelitas, which then carried out extensive trials at its Neston Application Center. The trials showed that medium-wave infrared ensured better drying results during embossing and a carbon infrared system was subsequently installed at Polyflor.

Neil Holden of Polyflor was very complimentary about the new system, “The new system has ensured that embossing no longer affects floor covering geometry. Moreover, we were very impressed with the professionalism of Excelitas both in the investigations at their Applications Center and in the way that the new system was installed with minimal interruption to the production process.”

Excelitas specializes in the production and application of high-quality energy sources covering the electromagnetic spectrum from ultraviolet to infrared. It has over 40 years’ experience in infrared technology and offers the expertise, products and systems to provide efficient and effective solutions to drying, heating and curing problems across multiple industries.