

SPUN CONCRETE

Benefits
BUILDINGS & SECURITY

Benefits at a glance

The Eurocoles spun concrete process gives architects and planners what they need: small diameters, special cross-sections and custom surfaces combined with high load-bearing capacities. At Eurocoles, we have been producing columns in proven spun concrete material for architectural applications since the late 1980s. They are pre-approved by the building inspectorate and therefore do not require case-specific approvals. Thanks to our detailed and standard-compliant in-house design and structural analyses you can minimise your risk and have planning certainty from the very outset.

Design & Function

Reduced cross-sections

Thanks to high-strength Class C 100/115 concrete, and an officially approved reinforced content of 16%, we are able to reduce the cross-section of the columns by up to 30% compared with conventional designs.

Benefit



Our Experience



VHV Versicherungen insurance company, Hanover: Columns 25 m long and 0.45 m in diameter

Making use of the cavity

The spinning process results in a cavity through the centre of the column which can be used for power supply and disposal conduits such as drainage pipes or electrical cables.



Haus der Ärzteschaft building, Düsseldorf: Entire roof drainage system integrated into column cores

Reduction of surface area and appearance

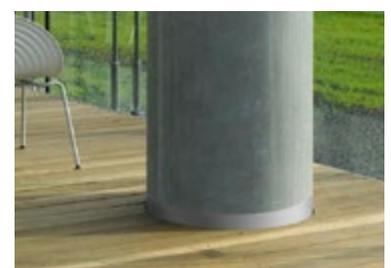
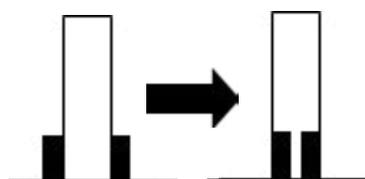
Depending on the architect's concept or requirements, we can produce not just round columns but various other shapes like oval, rectangular and square. This offers a great deal of freedom for the design.



Karstadt department store, Leipzig: oval columns as an active design element of the facade.

Integrated plinths

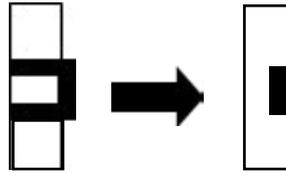
Plinths can be incorporated into the columns flush with the surface during the spun concrete production process.



Haus der Ärzteschaft building, Düsseldorf

Integrated fixing options

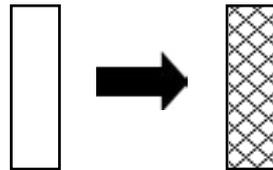
During production of the spun concrete columns the formwork is horizontal and at an ideal working height. Steel mounting components such as head plates, threaded bushings and Halfen channels can be built in flush with the surface, with no need for retrospective installation using additional temporary structures.



Erfurt theatre: Complete glass facade connected using steel plates integrated into the spun concrete.

Unlimited scope for surface design

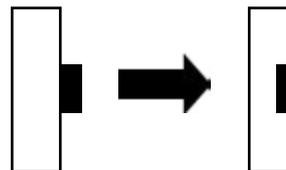
The concrete spinning process produces a non-porous surface in exposed (fair-face) concrete quality (better than class SB4), which guarantees that the columns will be uniform and reproducible. In addition, the surface can be designed according to your requirements during the spinning process by inserting matrices, either for the entire surface or just in specific sections. Four sided smooth-formed and sharp-edged structural elements are available as standard.



Column featuring decoration for the Great Mosque in Algiers.

Functional internals

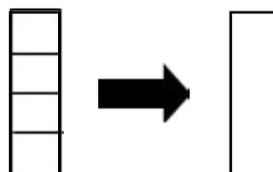
Additional functional internals such as sockets, inspection ports or lighting elements can also be worked into the spun concrete column if required. Cut-outs can be made in the columns to allow them to be connected directly to in-situ concrete structures (walls, ceilings, beams).



Blanco Group head office, Oberdingen: Design solution

Length

The concrete pole works at our headquarters in Neumarkt can produce one-piece column designs up to 36 m without joints (no cross seam). If a joint is necessary for transport purposes it can be concealed on the interior.



Friedrich Alexander University Erlangen-Nuremberg: single-piece columns 16 m long.

Plan your project with us

Spun concrete columns from Eurocoles are produced and designed according to your requirements. Our solutions allow all technical possibilities of the proven spun concrete material to be fully exploited. As they are produced in our prefabricated parts factory the columns we supply are always of consistent quality. To avoid any risk, plan your project with us.