UHPC Precast Products

TECHNICAL DATASHEET

Ultra-high-performance concrete products cast on the automated precast floor: prestressed bridge girders from 15 to 40 m, load-bearing and architectural panels, and ductile seismic elements engineered for Rift Valley and coastal seismic zones. Cured with park process heat and produced under audited ISO management systems.

PROCESS SPECIFICATIONS

Portfolio	30,000 m3/yr across five product lines
Girder spans	15 - 40 m prestressed
Dimensional tolerance	+/- 2 mm on cast dimensions
Curing	Steam-assisted - park process heat
Design basis	Rift Valley & coastal seismic zones

EQUIPMENT CLASSES

Automated casting line	Batch-controlled UHPC production
Prestressing beds	15 - 40 m girder lines
Steam curing chambers	Fed by 60 - 90 C process heat
Dimensional QA	Cast-dimension verification per element

MATERIALS

UHPC - prestressed	Bridge girders, seismic elements
UHPC - structural	Load-bearing walls and slabs
UHPC - architectural	Facade and decorative panels