

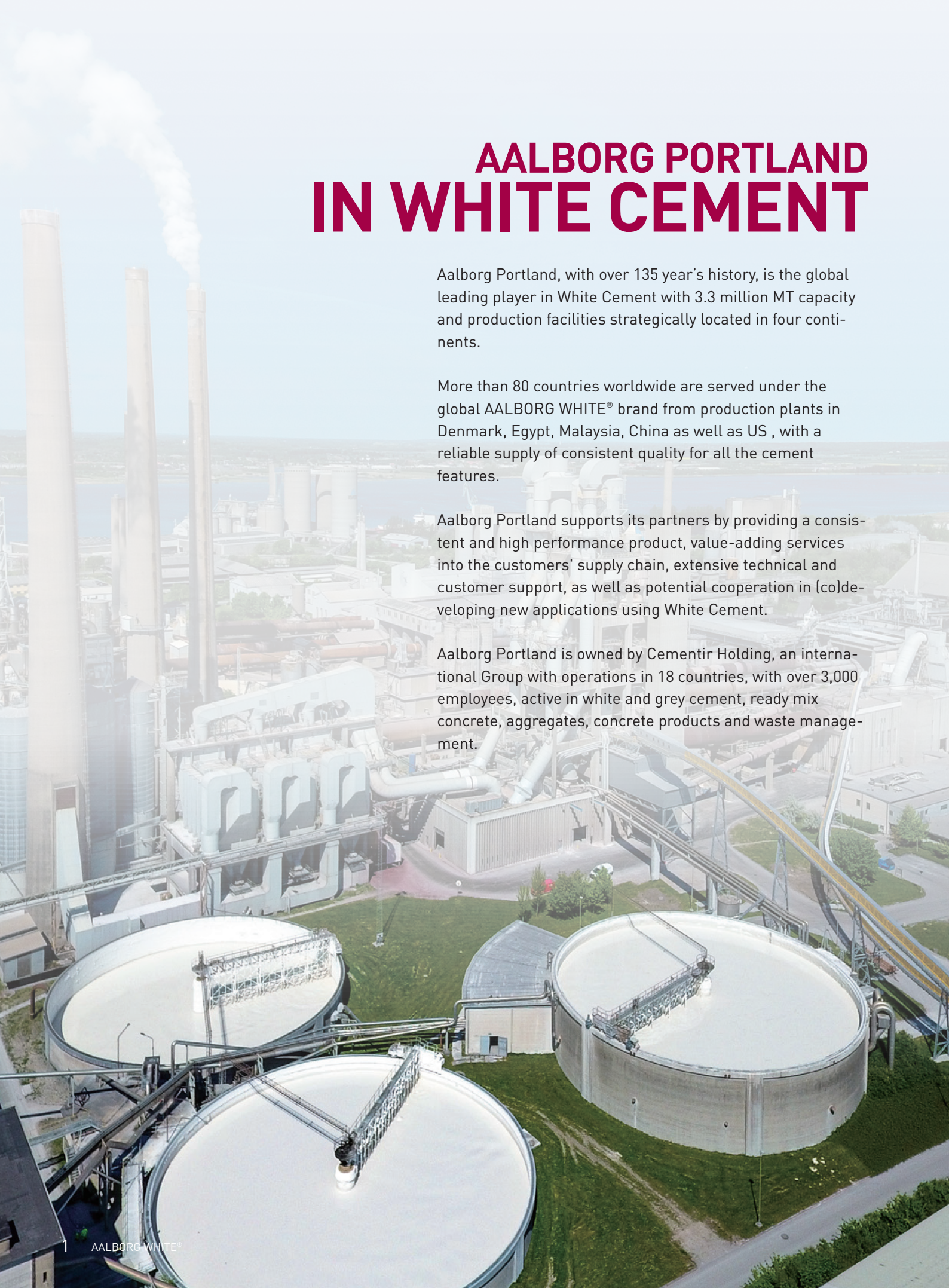


AALBORG WHITE®



Aalborg White® Overview | Middle East & Africa

# Unlimited Possibilities of Aalborg White® Cement



# AALBORG PORTLAND IN WHITE CEMENT

Aalborg Portland, with over 135 year's history, is the global leading player in White Cement with 3.3 million MT capacity and production facilities strategically located in four continents.

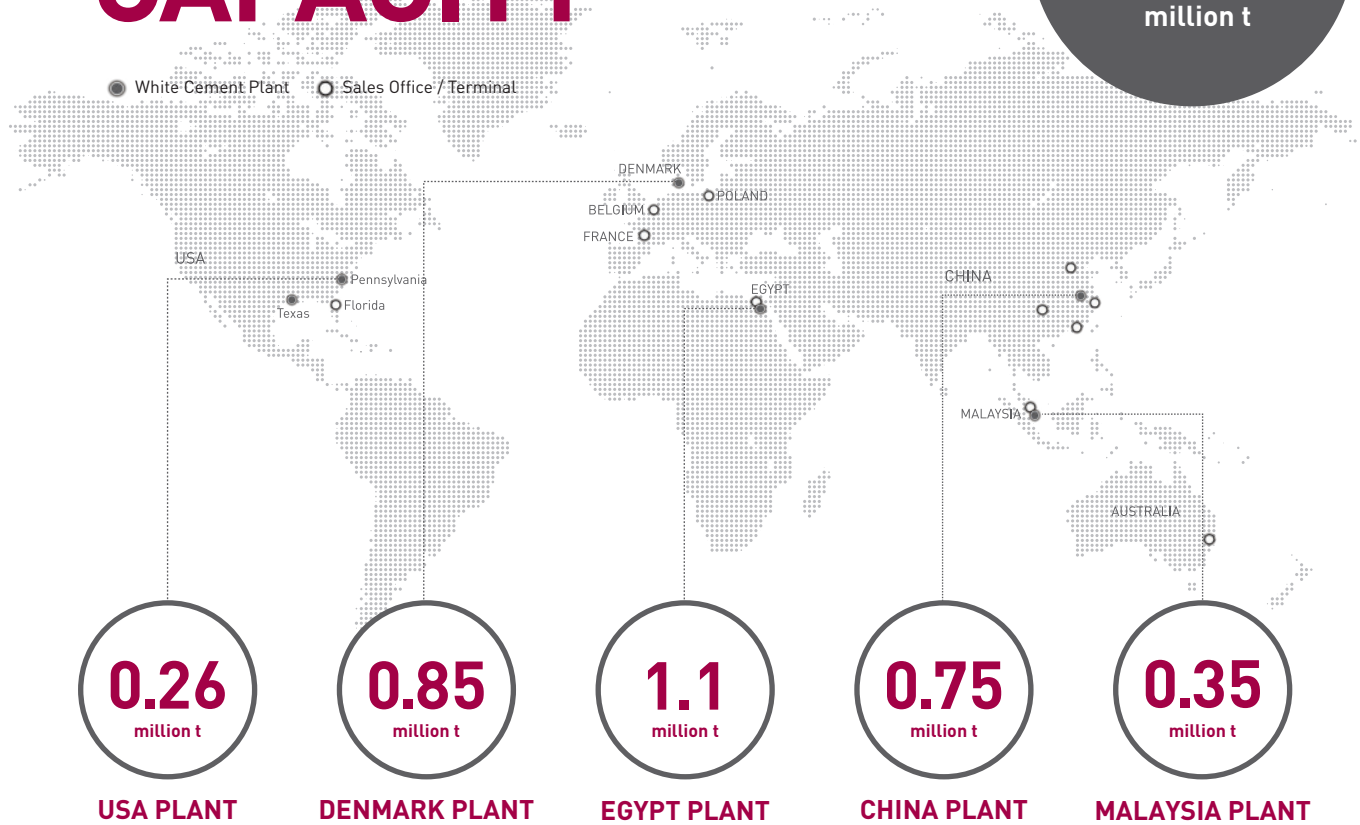
More than 80 countries worldwide are served under the global AALBORG WHITE® brand from production plants in Denmark, Egypt, Malaysia, China as well as US , with a reliable supply of consistent quality for all the cement features.

Aalborg Portland supports its partners by providing a consistent and high performance product, value-adding services into the customers' supply chain, extensive technical and customer support, as well as potential cooperation in (co)developing new applications using White Cement.

Aalborg Portland is owned by Cementir Holding, an international Group with operations in 18 countries, with over 3,000 employees, active in white and grey cement, ready mix concrete, aggregates, concrete products and waste management.

# AALBORG WHITE® PLANTS CAPACITY

TOTAL  
**3.31**  
million t



## AALBORG WHITE® PRODUCTS

### EXPORT PRODUCTS

#### AALBORG WHITE® cement CEM I 52.5R CEM II/B-LL 42.5N

- Produced in Sinai, Egypt
- Export to Middle East Region, Africa, South Europe, Latin America and South Asia as 50/40/25Kg Bags, 1.5/2.0MT Sling bags, 1.5/1.7/2.0MT Jumbo bags.
- Shrink wrapped pallets and bulk cement are served.



### DOMESTIC PRODUCTS

#### AALBORG WHITE® cement CEM I 52,5 N

Produced in Sinai, Egypt  
Sold in Egypt as bulk, bigbags and in 50kg bags



#### AALBORG WHITE® cement CEM II/B-LL 42.5N

Produced in Sinai, Egypt  
Sold in Egypt as 40kg bags.



### AALBORG WHITE® Product Overview

|                                                                                  |               | Physical Properties |        |         |                      |           |                    | Chemical Properties |                               |                 |                  | Product Features |                        |                     |                             |
|----------------------------------------------------------------------------------|---------------|---------------------|--------|---------|----------------------|-----------|--------------------|---------------------|-------------------------------|-----------------|------------------|------------------|------------------------|---------------------|-----------------------------|
| The cement conforms to national / regional standards in the market served        |               | Strength(Mpa)       |        |         | Initial Setting time | Whiteness | Fineness           | SO <sub>3</sub>     | Alkalies as Na <sub>2</sub> O | CA <sub>3</sub> | Loss on ignition | High Whiteness   | High Strength (28days) | High Early Strength | High Consistency in Quality |
|                                                                                  |               | 1 Days              | 2 Days | 28 Days | Mins                 | Hunter L  | m <sup>2</sup> /kg | %                   | %                             | %               |                  |                  |                        |                     |                             |
| AALBORG WHITE® Product - Product Data Sheet Source: Cementir White Cement Plants |               |                     |        |         |                      |           |                    |                     |                               |                 |                  |                  |                        |                     |                             |
| AALBORG WHITE® cement CEM I 52,5 R                                               | Made in Egypt | 29                  | 42     | 67      | 125                  | 93        | 460                | 3.4                 | 0.5                           | 6               | 3.5              | ●                | ●                      | ●                   | ●                           |
| AALBORG WHITE® cement CEM I 52,5 N                                               | Made in Egypt | 26                  | 39     | 67      | 135                  | 93        | 410                | 3.4                 | 0.5                           | 6               | 3.5              | ●                | ●                      |                     | ●                           |
| AALBORG WHITE® cement CEM II/B-LL 42,5 N                                         | Made in Egypt | 16                  | 24     | 48      | 150                  | 92        | 550                | 2.4                 | 0.4                           | 6               | 13.5             | ●                |                        |                     | ●                           |

# Unlimited Possibilities of WHITE CEMENT

## Aesthetics and Functionality

Unique raw materials and advanced production technology developed over 95 make up the AALBORG WHITE® as the global leading White Cement brand over for its supreme quality.

High whiteness, high strength and high consistency in quality of AALBORG WHITE® makes it a broad range of applications in the fields of Commercial & Residential Building, Landscaping, Infrastructure, Energy & Waste and Industry & Agriculture.

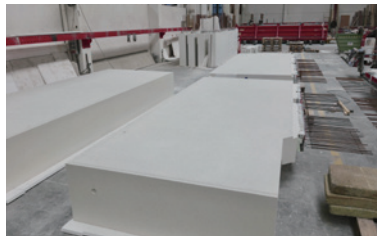
AALBORG WHITE® has already been an essential building material for architects, engineers, general contractors and manufactures to achieve architectural functionality and aesthetics.



## Pre-stressed and Ordinary Reinforced Precast

By building with structural concrete elements, there is no limit of creating an attractive airy indoor environment with columns and beams of white or coloured concrete based on AALBORG WHITE®.

The immediate impression is one of elegance and lightness in construction, which takes full advantage of the AALBORG WHITE® high reflective index.



## Precast Products

Prefabricated construction is an area in which white elements can play a successful role. AALBORG WHITE® also makes a large contribution in reaching a clear and pure nuance for all the colours designed.



## Artificial Stones

Artificial Stone is mainly used in landscaping and building exterior & interior wall. AALBORG WHITE® makes artificial stones have real stones' textures and colours, creating a natural and vibrant space and environment.



## GRC (Glass Fiber Reinforced Concrete)

GRC is used for very thin, bending and light panels. A common application in the old building facade renovation or in a completely new design. GRC produced with AALBORG WHITE® has optimum strength and toughness thanks to the compact matrix created by high cement performances.



## UHPC (Ultra High-performances Concrete)

UHPC is the emerging concrete technology for slim aesthetic and structural concrete elements with high mechanical, chromatic and durability performance. Peculiar and consistent quality of AALBORG WHITE® make it all possible.



## Dry Mix Mortars

Mortars are used in a wide range of applications. When aesthetic appeal is a priority, AALBORG WHITE® is often included in the formulation.

AALBORG WHITE® with its high reflective index, in addition to high strength and consistent chemical composition, makes it the preferred cement for many mortar products like colour mortar, tile adhesives and grout, skim coat, self-levelling floor screed, swimming pool plasters, etc.



## In-situ Cast Concrete

The greatest freedom in shaping concrete usually exists for constructions where concrete is poured and cast on site. Only your imagination and operation' feasibility can limit the possibilities. When mixed properly, concrete based on AALBORG WHITE® cement achieves very high strength and durability thanks to high cement overall performances.

## STRICT QUALITY MANAGEMENT SYSTEMS

The high product quality is monitored by a comprehensive and well-proven quality control system spanning from unique raw materials selection, advanced production process to the finished products, in accordance with EN 197-1:2000



## OUTSTANDING PRODUCTION FACILITIES

- Among the largest white cement plants in the world with 1.1M Tons annual capacity
- High quality and adequate raw material for further 100 years thanks to own quarry
- Fully equipped production facilities with 2 white cement kilns and complete packing and logistics solutions.



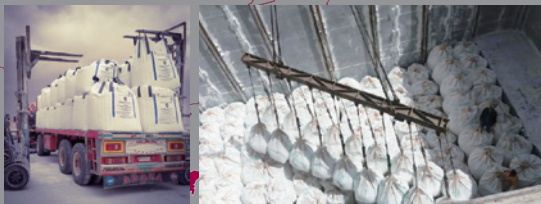
White Cement plant in Sinai, Egypt



## CUSTOMER ORIENTATION

*We have been dedicated to offer diversified and flexible customers services encompass Logistics, Warehousing & Technical supports as a practice of Cementir's customer-oriented strategy.*

- Exporting to more than 40 countries around the world, Sinai plant has existing markets throughout the Middle East Region and Africa, part of the countries in America, Asia and Europe.
- Strategic plant location to main 6 sea ports (Mediterranean and Red sea Ports) for transporting bagged, bulk cement and containers.





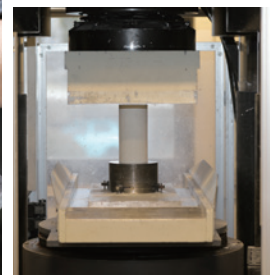
# THINK GLOBAL ACT LOCAL

As a global leading player in White Cement with production facilities and commercial subsidiary strategically located in four continents, we support our local partners by providing high performance product, value-adding services, extensive technical support, and potential cooperation in (co)developing new applications using Aalborg White® cement.

## Global Expertise & Innovation

**Aalborg InWhite Solution™** is the global Innovation Engine for White Cement Application established with the purpose of generating the most sustainable, cost-effective solutions in construction and building material. Aalborg Extreme™ Light120 is our first commercialized Premixed Ultra High-Performance Concrete product under the Aalborg InWhite Solution™.

**White Cement Competence Center (WCCC)** serves as knowledge and emerging technology center for the global activities and customer supports by developing new White Cement applications. Annual WCCC workshop gathers all **"White Marketers"** in all Regions for sharing best practices and in-house training in applications, technology and innovation.



## Local Practice

Cementir has global presence in White Cement, but we listen to the "Voice of Customer" in local markets, understand in-depth of local market needs and have a close relationships with local partners.

**Our innovation team**, together with our global experts and scientists of R&D Center in Aalborg, Denmark offer product technical supports and market-specific product and application trainings to local customers and stakeholders in all Regions.

# Building A SUSTAINABLE FUTURE

Cementir regards sustainable growth as both a responsibility and a requirement for continuing to work in the cement industry. Our business model must strike the right balance between the creation of economic value, the protection and conservation of the environment and a sense of responsibility towards people and communities.

Group has identified 4 pillars that represent the benchmark principles that have inspired the company's defined sustainability strategy.

## Alternative Fuel in the Cement Production



Alternative fuel used for thermal energy production in place of non-renewable fossil fuels.



## Environmental Friendly Plant



Cementir's Egypt plant implemented an environmental reporting system and participated in the online environmental monitoring system allowing the central authorities to supervise plant operation and emissions.

## Green Cement Innovation



**FutureCem®** developed by Cementir's R&D center in Aalborg, Denmark cuts up to **30% CO<sub>2</sub> emission** during the cement production.

**D-Carb®** is a new umbrella brand for **lower carbon white cements**, supporting industry

wide decarbonisation efforts. This product, with a documented reduction in CO<sub>2</sub> emissions verified by a third-party Environmental Product Declaration, exhibits outstanding performances at early ages comparable to CEM I.



## Footprint In Social Responsibility



Sinai plant is dedicated to create value for local communities. Supporting local economic development, creating employment opportunities for residents, improving university infrastructure and educational level, and supporting authorities in offering better living standard and public security of desert residents.



## Cementir Four Pillars on Sustainability

### PILLAR 1

We ensure that waste and secondary products are turned into resources, adopting an increasingly integrated approach to cement production and establishing partnerships with other industry players and public authorities.

### PILLAR 2

We adopt all necessary measures and the most innovative technological solutions to minimise the impact of our business on the environment.

### PILLAR 3

We attract talent and we ensure a safe and stimulating working environment for our people, our most valuable resource.

### PILLAR 4

We create value for local communities, listening to their needs and concerns and basing our relationships with them on transparency and accountability.

[www.aalborgwhite.com](http://www.aalborgwhite.com) 

[www.white-hub.com](http://www.white-hub.com) 

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## Middle East & Africa

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