

XINFA

New standards in plasterboard production

INDUSTRY

Gypsum industry

PLACE

Chiping-Liaocheng,
Shandong Province,
China

COMMISSIONING

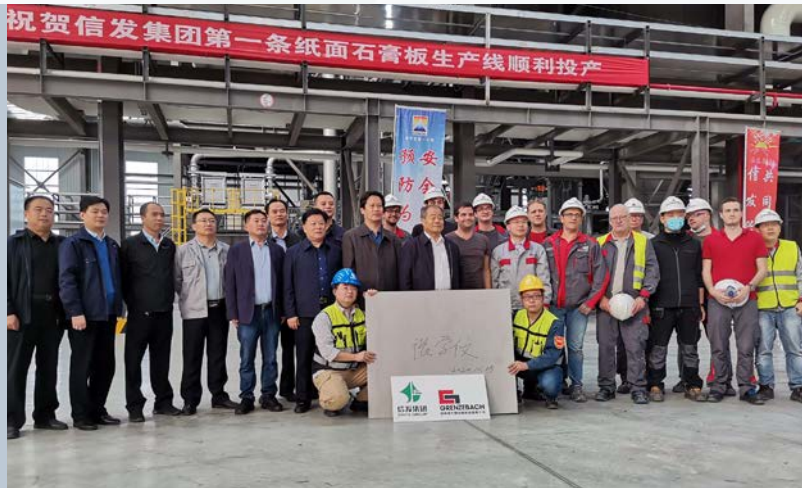
2021

SOLUTION

Two plasterboard production lines (annual output of 120 million square meters)

CUSTOMER

XINFA is the world's third-largest producer of aluminum. The group is headquartered in Chiping-Liaocheng, Shandong Province, China, and employs some 60,000 people. The Group is active in the fields of heat supply, alumina and aluminum processing, among others.



INITIAL SITUATION

Aluminum production requires a lot of electrical energy, and that is why the group also operates its own power stations.

The synthetic FGD gypsum obtained as a by-product from the desulphurization of the customer's power station has not been used and disposed so far. In the future, this gypsum shall be processed efficiently and sustainably into gypsum plasterboard and expand the product portfolio of aluminium manufacturer XINFA.

» In Grenzebach we have found a highly competent and experienced partner who supplied us with the complete machinery and the necessary know-how and took care of the installation work up to commissioning of the plasterboard facility. «

Yanhui Zhang

Plasterboard Factory Director at XINFA Group



CHALLENGES

The teams of Grenzebach experts at the locations in Jiashan (China) and Bad Hersfeld (Germany) had to offer XINFA within the shortest possible time the best possible concept for implementation of the mega project. Commissioning the two production lines in a year dominated by the COVID-19 pandemic meant a particular challenge to the project team.

IMPLEMENTATION

Grenzebach had the role of the General Contractor and was in charge of planning and implementing the project. Its range of tasks included developing the plant concept, planning and dimensioning the infrastructure and energy supply systems, developing the entire production and warehouse logistics concept, and installation and commissioning of the production facilities. Each board line features a state-of-the-art packaging line and dunnage system.

Grenzebach thought ahead from the start in dealing with these tasks and already took future XINFA capacity upgrades into account: The complete utilities, infrastructure and warehousing areas are dimensioned for no less than four plasterboard lines.

Thanks to the close collaboration of all the staff involved, Grenzebach was able to make sure this mega project could be completed very quickly.

BENEFITS

Efficient

100 tonnes per hour stucco are produced from FGD gypsum with a line speed of 120 meters per minute.

Sustainable

In addition to using the raw material, the low-pressure steam from the power stations is used for heating the dryers.

Fast

Fast and smooth commissioning through maximum cooperation between all Grenzebach and XINFA teams from Germany and China.

CONCLUSION

Chinese XINFA Group successfully launches impressive entry into plasterboard production with an annual output of 120 million square meters. The XINFA factory with its two production lines is among the world's biggest plasterboard facilities. Due to the special flexibility and close coordination of all project participants, the plant went into operation on schedule.

Grenzebach BSH GmbH

Rudolf-Grenzebach-Straße 1
36251 Bad Hersfeld
Germany
+49 6621 81-3000
gypsum@grenzebach.com
www.grenzebach.com

