

FOREWORD

This issue of JFE Technical Report introduces products and technologies related to “Super High-Rise Buildings” and “Steel Sheet Construction Materials” in the field of construction materials in the JFE Group.

Super High-Rise Buildings

In super high-rise office buildings constructed in central urban areas, steel frame

recent super high-rise buildings, and are actively developing and applying the analysis/simulation techniques and design techniques required in technical development.

This “Special Issue on Super High-Rise Buildings” introduces representative examples from among the above-mentioned technologies and products related to super high-rise buildings.

Steel Sheet Construction Materials

The market for sheet construction materials in Japan is on the order of 4 million tons/year. Sheet construction materials are used in diverse applications in construction, centering on finishing materials such as metal roofing and walls, and also including fixtures, equipment, residential structural members, and the like, and in civil engineering, where applications include sound-insulating walls for expressways, guardrails, etc. Because these materials are frequently applied in outdoor environments, mainly galvanized steel sheets and prepainted sheets are used, considering durability and corrosion resistance. In the fields of sheet construction materials and residential construction materials, members of the JFE Steel Group have developed base materials which take advantage of the features of “steel,” and are engaged in development activities, including technologies in the processing-to-use stages. This “Special Issue on Sheet Construction Materials” focuses on these topics.

However, the area devoted to steel sheet construction materials has been expanded, and the centre is now operating as a base for strengthening collaboration and networks with a wider range of customers.

Through this kind of platform, the entire JFE Group, as one, will continue to grapple with the development of new technologies and products in order to realize JFE Steel's corporate vision of "Contributing to society with the world's most innovative technology."