

Concrete filled steel thin walled cold formed steel

C-Box Column

Box Column



Technology

- BOX Column is a closed concrete filled steel tube column made by bending a high-performance steel
- Improved compressive strength by installing reinforcing ribs inside the C-Box column.
- Application of rectangular cross-section to maximize cross-sectional efficiency according to the width-to-thickness ratio



Characteristics/Merits

Structural performance

- Composite effect of steel box column, internal reinforcing rib and concrete improves design strength more than 20%
- Saving 20 ~ 30% of steel quantity compared to H column

Easy construction

- Reinforced concrete beam connection by steel anchor
- Steel/composite beam connection by interior diaphragm

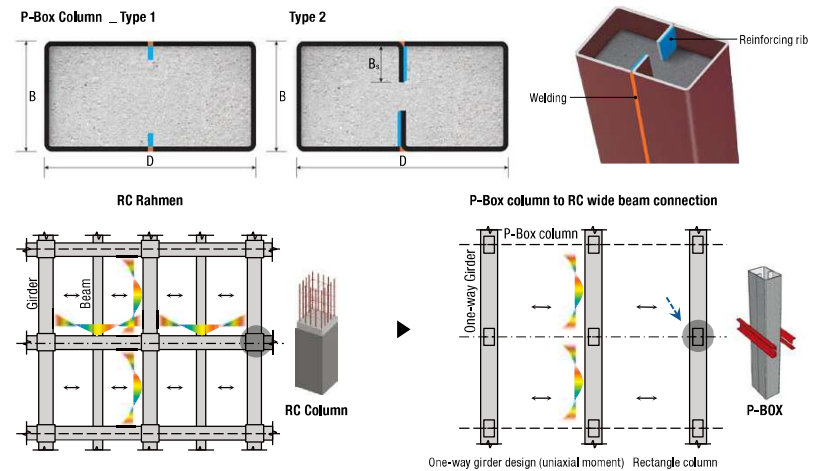
Feasible structure design possible

- Increase the effective area of the building by decreasing the column section compared to RC columns (increase the number of parking lots)
- Various rectangular section can be reasonable structural design for the building

Fireproof

- Saving fire resistance cost 20% by acquiring 2 and 3 hour fire resistance certification
- Intumescent paint: 2Hr 1.95mm, 3Hr 3.9mm
- Vermiculite spray: 2Hr 18mm, 3Hr 23mm

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Structural Performance



Applications

