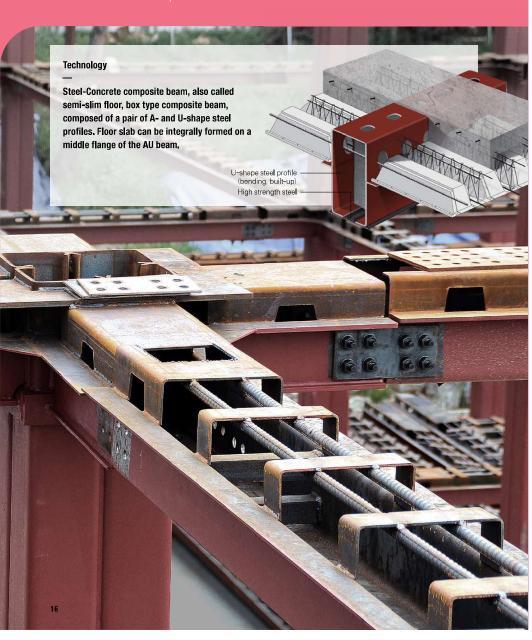
BHULLAR GROUP



AU Beam



Characteristics/Merits

Floor system

Cap type anchor

Deck height control

· 20% floor height reduction

Floor height reduction

- 1-way Floor System : with 4 AU girders, no small beam is necessary
- Steel anchor is unnecessary: A-shape cap functions to anchors
- · Deck plate installation on edges of U-shape beam : 20% floor height reduction

Improvement of cross-section stability

· Steel anchor integral cap without studs

- Closed shape → higher bending stiffness
- · Effective for long-span beam on top-down construction

Concrete-filled beam

- · Bending stiffness and strength improved
- · 1.7 times better bending performance due to composite actions

Features

A-shape cap steel anchor

20%Î

×1.7

- Closed cross-section improve structural capacities

 \cdot Floor height reduction due to various depths of decks

· Sub-beam can be removed when deep deck is used.

- Composite action is enhanced by the cap

Easy reinforcement on compression/tension parts

- Compression part : reinforced by stiffeners on A-shape cap
- Tension part : reinforced by higher strength steel

U-shape beam

- function to concrete form and deck's hanging edges
- function to confinement member and resist to tension force

Wide floor system

- Efficient on 200mm deep deck plate (D-Deck, Cap Deck), VIOD Slab and hollow precast concrete slab











