

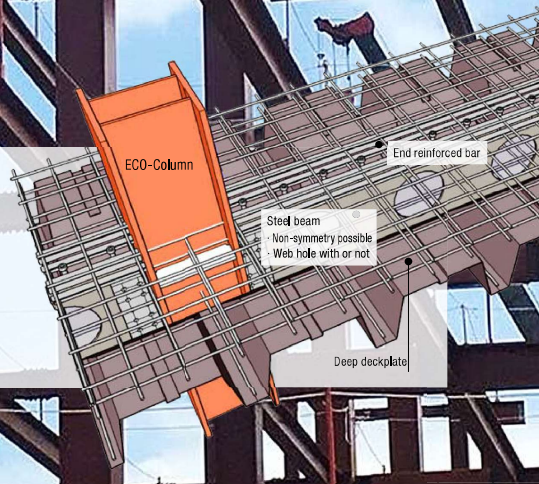
# ECO-Structure

Long Span Composite ECO-Structure

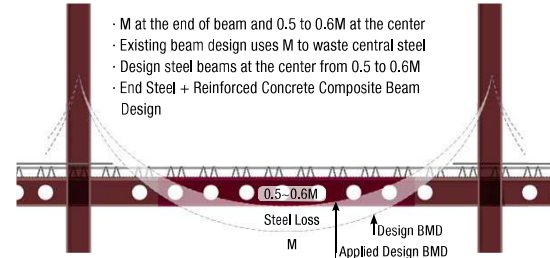


## Technology

An Eco-Frame System consisting of composite columns (ECO column) corresponding to long span end performance improvement composite beams (ECO girder).

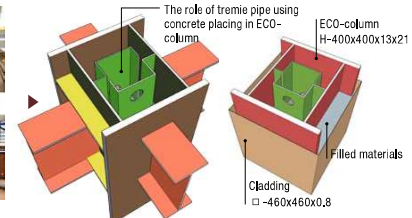


## Characteristics/Merits



- M at the end of beam and 0.5 to 0.6M at the center
- Existing beam design uses M to waste central steel
- Design steel beams at the center from 0.5 to 0.6M
- End Steel + Reinforced Concrete Composite Beam Design

- **Excellent constructability**  
The same construction method as steel frames
- **Reduction of floor depth**  
100mm to 200mm savings over steel frames
- **Cost reduction**  
Decrease steel weight by 30% and reduce fireproofing area
- **Improved usability**  
10% improvement in deflection and vibration performance
- **Environmental improvement**  
15% reduction in CO2 emissions



## Construction Process



## Applications

