MULTI-STOREY STEEL BUILDING SYSTEM

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INTRODUCTION

Creative Building Solutions is one of raising organiozation in nothern region. we are engage since 2013 in Pre Engineering Building, Prefab Steel Building, Security Cabin, Insulated and un-insulated colour coated steel roofing and wall cladding. Thermal and cold insulation work such as designing, fabrication and installation, all customized as per requirement. Our Modern building products will take a good share in a highly economic, weather-independent and fast, modular building process. All these products are manufactured as per the custom requirements to suit their needs. Creative Building Solutions to procure high quality raw materials with owns fully professionally experienced team. We make a premium brand position through customers satisfaction. We hold our values above all. Our motto is to serve our customer globally with newer products along with the superior quality and Reliability in terms commitment, fulfilment and timely completion.

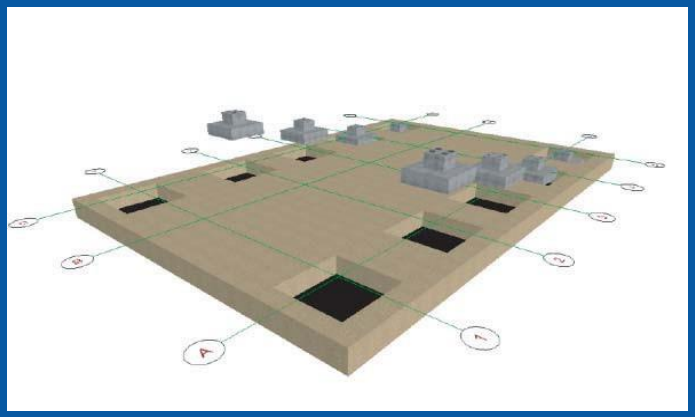
MULTI-STOREY STEEL BUILDING SYSTEM

Multi-storey buildings in steel have been used extensively in Europe and surrounding areas sin the 1940's. With today's advanced technology and latest innovations, the use of structural steel and concrete composite design is being applied in the construction of multi-storey buildings. In addition to a faster construction speed an increased economy is achieved when applying such design techniques.

COMPARISON BETWEEN CONCRETE FRAMED AND STEEL FRAMED BUILDING

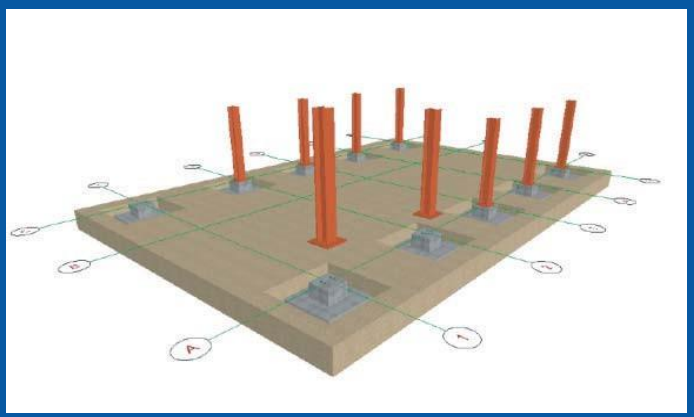
CONCRETE FRAMED BUILDINS	STEEL FRAMED BUILDINGS
• Slower construction	• Faster construction by up to 2 times
• Delayed revenue on account of longer construction	• Earlier revenue generation from completed buildings
• Internal props / shuttering required	• No internal props/ shuttering required
• Higher cost of finance	• Lower cost of finance
• Works dependant on fair weather in many instances	• All weather construction possible
• Longer spans and fewer columns only possible with a heavier design	• Longer spans and fewer columns possible with a lighter structure
• Higher loads leads to increased foundation cost	• Lighter building loads result in reduced foundation cost
• Deeper beams & thicker slabs increase the nominal floor to floor heights	• Shallower beam and slab heights can result in reduced floor to floor heights with same functionality
• Higher overall cost	• Lower overall cost
• Enhanced concrete usage has a more profound impact on the environment	• Reduced concrete use is more environmentally friendly. Steel is also more easily recyclable

CONSTRUCTION PROCEDURE

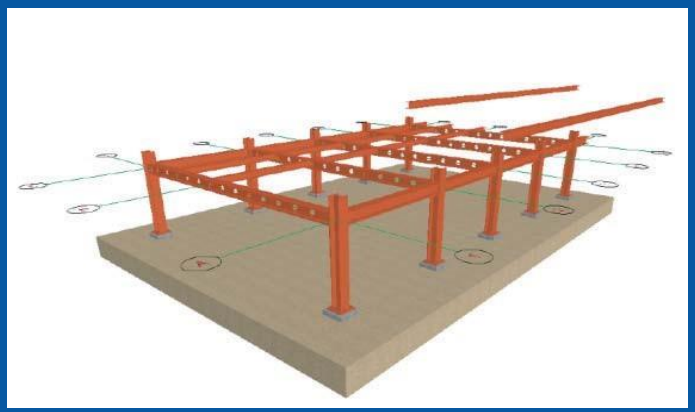


STEP 1
Construction of Foundations

STEP 2
Erection of steel Columns

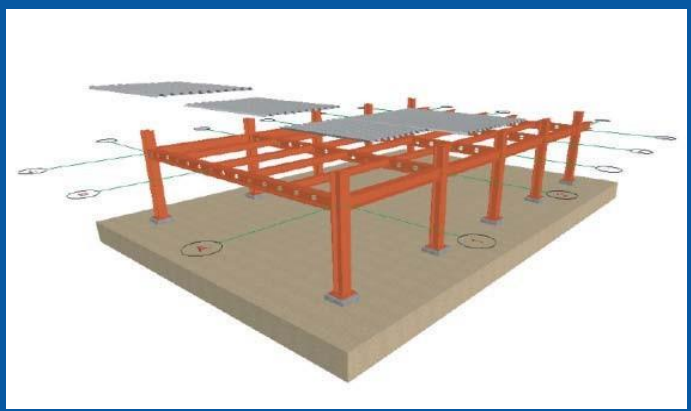


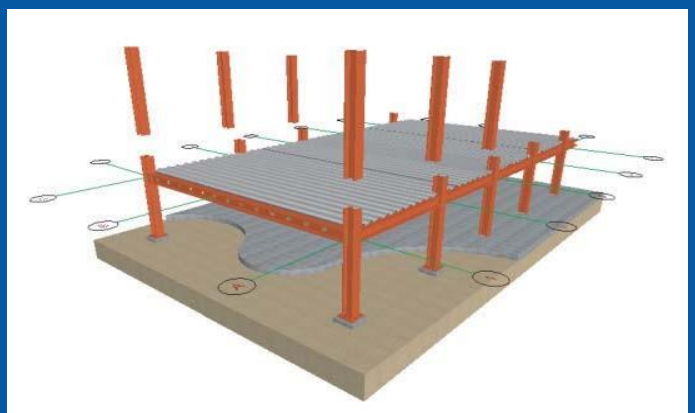
STEP 3
Erection of Primary steel beams



STEP 4
Erection of Secondary steel beams

STEP 5
Fixing of decking sheets

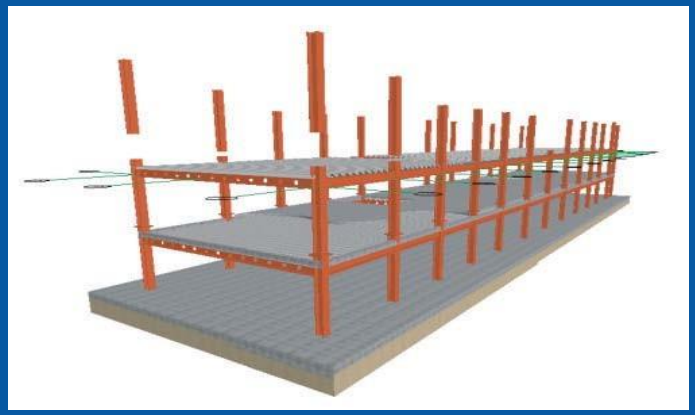




STEP 6
Fixing of upper floor colums & lay concrete on ground floor

CONSTRUCTION PROCEDURE

STEP 7
Repeat steps 3 to 5 for the upper floors & lay concrete on floors



STEP 8
Lay off concrete of top most floor

STEP 9
Do all the finishing works

STEP 10
Finished building

STRUCTURAL STEELWORK SPECIFICATIONS

1. The applicable British Standards specifications to apply appropriately to design, materials and workmanship.

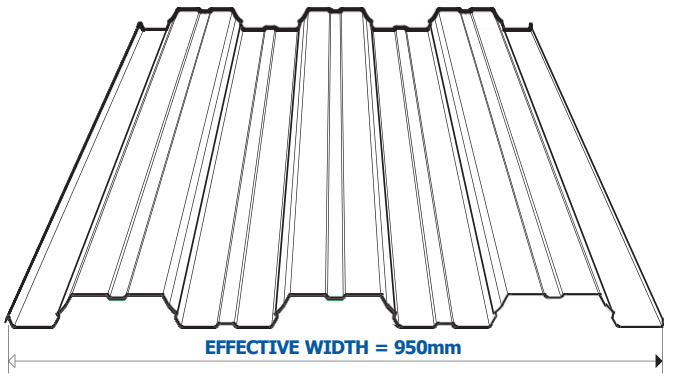
2. All steelwork to be cleaned and painted to specification before dispatch.

3. All Structural Steel detailing to be done using latest programs e.g Tekla and Autocad.

DECKING SHEETS

Decking sheets are fixed to the top flange of I-beams with self drilling screws. The decking sheets are designed to free span between the beams, therefore elimination the need for props and shuttering during the casting of the concrete slab. This makes the construction method very quick and efficient since the contractor does not need to wait for the curing time of the concrete slab before moving to upper subsequent floor levels.

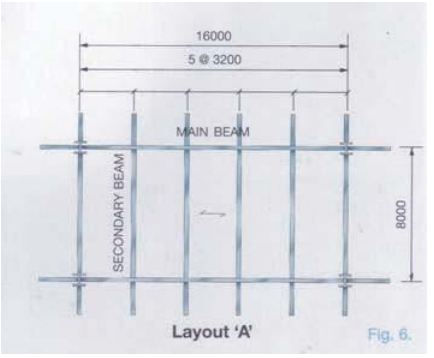
TECHNICAL SPECIFICATIONS OF DECKING SHEETS



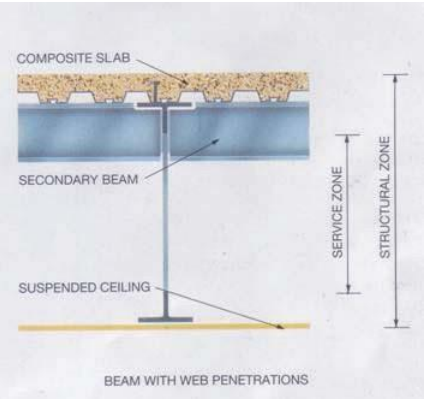
DECKING PROFILE - ISOMETRIC VIEW

- A galvanized coated angular through profile is used with thicknes varying from 0.5mm to 0.8mm depending upon the design load.
- The decking sheets acts as permanent shutter supporting both the construction and final design loads and therefore the bottom of the shutter acts as the slabe soffit finish.
- The composite steel beam and concrete deck system can be designed to accommodate loads ranging from 2.5kn/m^2 for light office blocks to 20Kn/m^2 for heavy industrial load and car park systems.

View from Underneath

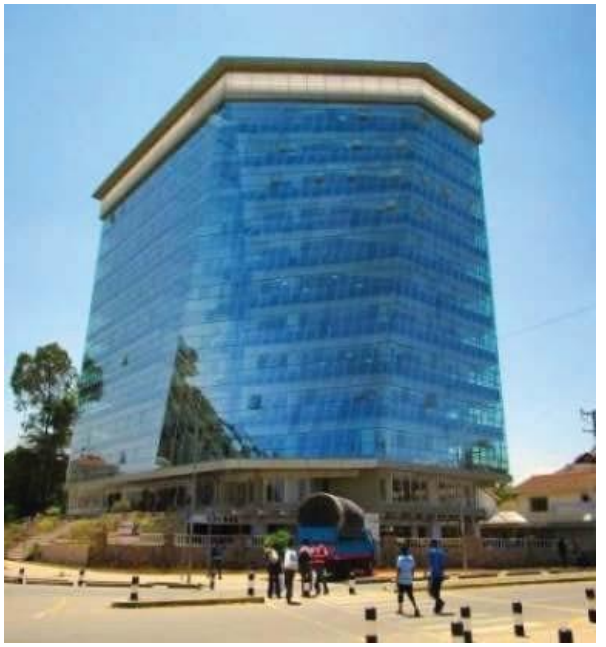


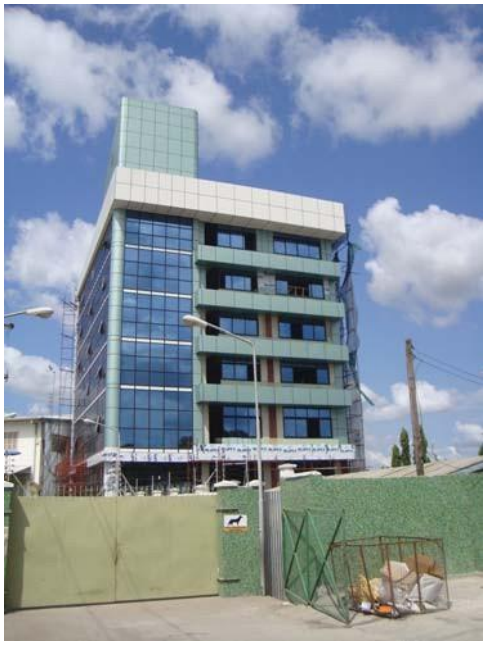
Plan on Beams



Elevation

LANDMARKS





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