ALL BAMBOO BUILDING SYSTEM

SYSTEM ARCHITECTURE

> BALCONY UNIT

> BASIC UNIT
ALL BAMBOO BUILDING SYSTEM

3 TYPES

> BALCONY

> BASIC

> PITCHED ROOF
ALL BAMBOO BUILDING SYSTEM

VARIATIONS BASIC UNIT

> SMALL FAMILY HOUSES

> HOME-SHOP HOUSES

> MIGRANT WORKER HOUSES

> LARGE FAMILY HOUSES
ALL BAMBOO BUILDING SYSTEM

VARIATIONS BALCONY UNIT

> FOR EXAMPLE:

< EXTENDED BALCONY
< EXTENDED LIVING
< EXTENDED SHOP
ALL BAMBOO BUILDING SYSTEM

DETAILS (ISOMETRIC)

1. 4 TAPERED COLUMNS
2. IMPOSITION KNOT
3. 4 IMPOSITIONS MAIN BEAMS
4. HALF-LAPPING / CROSS JOINT
5. MAIN STRUCTURE IN 1 PLANE
6. PIN-HOLE CONTINUATION
ALL BAMBOO BUILDING SYSTEM

FLOORPLANS / SECTIONS / ELEVATIONS
BALCONY UNIT

> GROUND FLOOR

> FRONT

> LEFT

> RIGHT

> BACK
> INDUSTRIAL PRODUCTION PROCESS

1. RAW CULMS
   > 12MM WALL THICKNESS

2. SPLITTED SLATS
   > THICKNESS PLANED

3. OVERLAPPING LENGTHS
   > ± 1000MM EACH

4. STACKED SLATS
   > BUTT JOINTED

5. SWALLOWTAIL JOINER
   > CHAIN MORTISER

6. PIN INSERTION
   > SWALLOWTAIL PIN

7. DECLAMPING
   > QUALITY CHECK

8. CUTTING TO SIZE
   > LONG SIDE

8. STACKING ON PALLET
   > DISTRIBUTION
ALL BAMBOO BUILDING SYSTEM

CONSTRUCTION PRINCIPLE

- INNER KNOT / CONSOLE
  - COLUMNS ROOF TAPERED FOR IMPOSITION KNOT
- OUTER KNOT / CONSOLE
  - COLUMNS RAISED FLOOR TAPERED FOR IMPOSITION KNOT
- FOUNDATION CONCRETE BASE

SECONDARY ROOF BEAMS
CROSS SECTION: 40x200mm

MAIN ROOF BEAMS
LOAD BEARING STRUCTURE
CROSS SECTION: 70x200mm

EDGE BEAMS
CROSS SECTION: 70x200mm

STABILITY WALL PANELS
DIMENSION: 680x2580mm

SECONDARY FLOOR BEAMS
CROSS SECTION: 40x200mm

MAIN FLOOR BEAMS
LOAD BEARING STRUCTURE
CROSS SECTION: 70x200mm

BUILD-UP WALL ELEMENTS

- FRAME
- INFILL