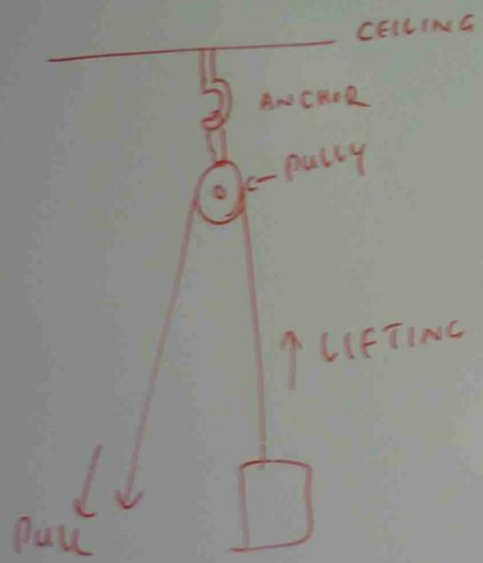
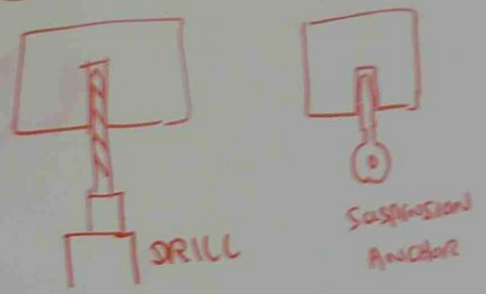
E002 + E005

ANCHOR DEVICE



ANCHOR NEEDS TO BE INSTALLED AT CEILING TO ATTACH OVER HEAD CRANE. (CEILING SUSPENSION ANCHOR)

SETTING INSTRUCTIONS FOR CEILING SUSPENSION ANCHOR

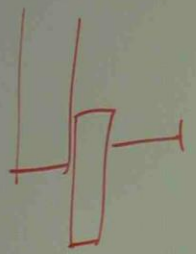


SETTING INSTRUCTION

(1) DRILL A HOLE OF THE RECOMMENDED DIAMETER AND DEPTH

(2) INSERT THE ANCHOR

(3) SHARPLY PULL DOWN THE RING BOLT.



TYPE of ANCHORS

- CHEMICAL ANCHOR
- SCREW TYPE ANCHOR
- INJECTION ANCHOR
- SCREW IN ANCHOR
- MASONARY NAILS
- POWDER ACTUATED FASTENERS.
- PNUEMATIC ACTUATED FIXING
- HAMMER IN ANCHOR

CEILING SUSPENSION ANCHOR

THESE HAVE BEEN DESIGNED FOR USE BELOW CONCRETE FLOOR (OR) ROOFS TO PROVIDE A RING BOLT (OR) SIMILAR FIXING FOR SUSPENDED CEILING SYSTEM.

SCREW IN ANCHOR

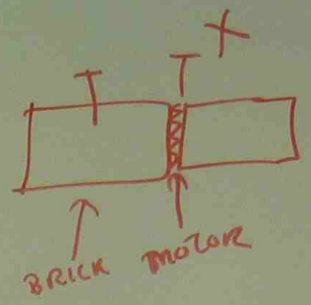
- DRILLING OF A HIGHLY ACCURATE PILOT HOLE SLIGHTLY SMALLER IN DIAMETER THAN THE THREAD DIAMETER OF THE SCREW WHICH IS MADE FROM HARDENED CARBON STEEL.
- THEN THREAD FORMING SCREW IS THEN DRIVEN INTO THE PILOT HOLE, USING THE SAME DRILLING TOOL FITTED WITH AN ADAPTOR.

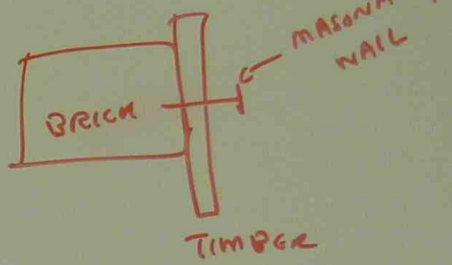
MASONARY NAILS

2 ⟶ 3.7 mm DIAMETER

LIGHT DUTY FIXINGS IN TO SOFT BRICK WORK, LIGHT WEIGHT CONCRETE WITH A DENSE TEXTURE. AND SOFT STONE.

LENGTH 6 mm ⟶ 100 mm.

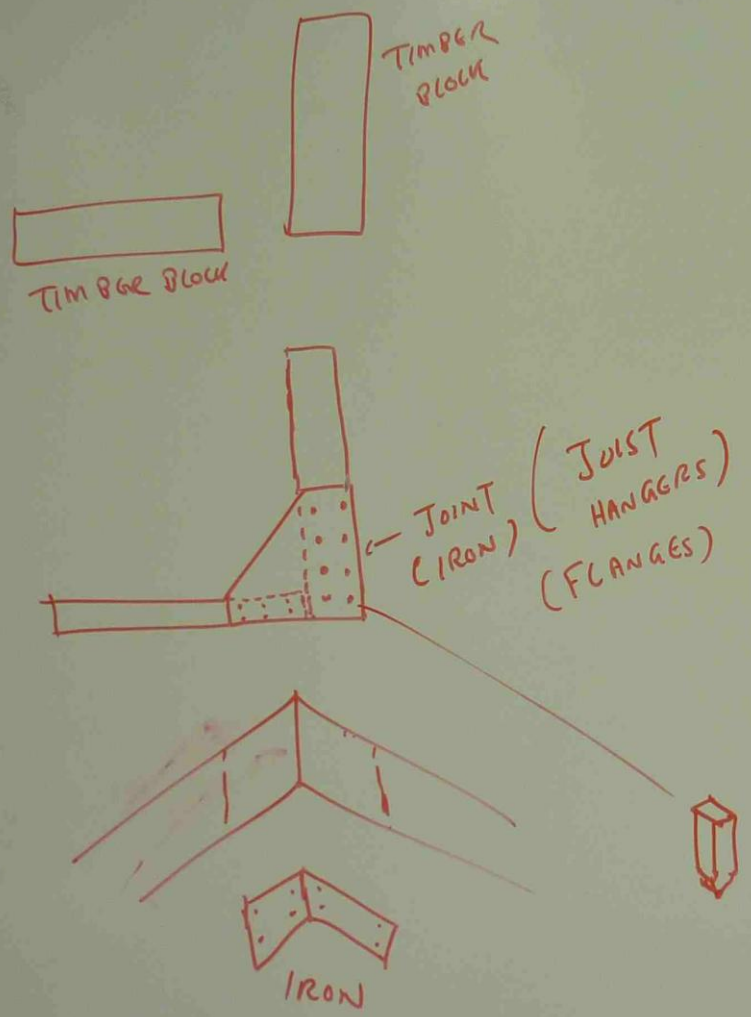




SETTING INSTRUCTION

1. DRIVE THE NAIL WITH HAMMER
2. NAILS SHOULD BE PLACED BETWEEN 200 AND 300 mm APART.
3. AVOID NAILING INTO MORTAR JOINTS
4. ONLY PLACE ONE NAIL IN EACH BRICK AS POSSIBLE

BUILT IN FIXINGS



SETTING INSTRUCTIONS

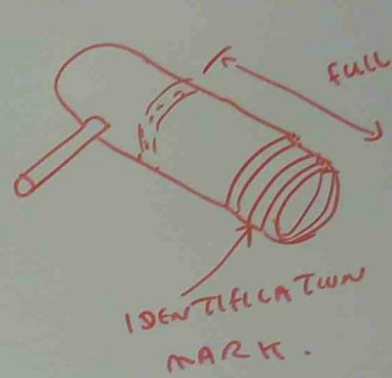
(1) JOIST HANGERS SHOULD BE ACCURATELY POSITIONED ALONG THE APPROPRIATE WALLING COURSE. THEIR FLANGES BEING PLACED ON THE TOP OF COURSE

(2) DO NOT LOAD THE HANGERS (PARTICULARLY SINGLE HANGERS) UNTIL THEIR FLANGES ARE SECURED BY HIGHER LIFT OF WALLING AND THE MORTAR OF THE JOINT HAS COMPLETELY HARDENED.

(3) LATER SET THE JOIST IN THE SADDLE AND FIX IT TO THE HANGER WITH 30mm x 3.5mm SQUARE TWISTED NAILS THROUGH THE PRE-PUNCHED HOLES IN THE HANGER.

PLUGS AND SOCKETS

REMOVABLE FITTING.



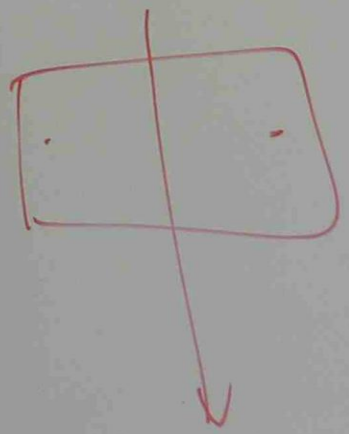
CAST IN PLUG.
CAST IN CHANNEL

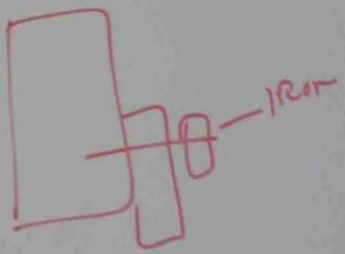
SETTING INSTRUCTION

- CAREFULLY MARK OUT THE POSITION OF THE CHANNEL ON THE BACK OF FORM WORK
- DEPENDING ON THE TYPE OF THE CHANNEL AND THE MATERIAL OF THE FORM WORK, LIGHTLY NAIL (OR) STAPLE (OR) BOLT THE CHANNEL IN POSITION
- BEFORE THE FORM WORK IS STRUCK UNSCREW BOLT & NUT
- CLEAN OUT FILLING.

FACTORS AFFECTING THE FASTENER'S PERFORMANCE IN DENSE CONCRETE BASES

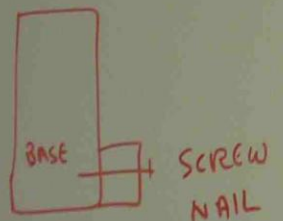
- COMPRESSIVE STRENGTH OF THE CONCRETE
- SIZE OF THE CONCRETE'S AGGREGATES
- PH VALUE OF THE CONCRETE — ACIDITY
  BELOW 7 & ABOVE 11 } HIGHLY CORROSSIVE
- REINFORCEMENT PATTERN IN THE CONCRETE
- FASTENER SPACING RELATION TO BASE DIMENSION.

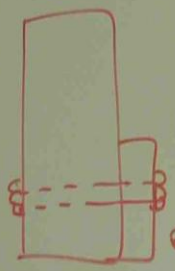




MECHANICAL FIXINGS IN TIMBER BASES

- BASE DEFORMING FIXING
- THROUGH FIXING





TYPES OF WOOD NAILS

- ROUND PLAIN WIRE — STRUCTURAL TIMBER
- PURLIN — TO PROTECT CORROSION
- CLOUT — FIXING ROOF
- PLASTER BOARD — FIXING PLASTERED BOARD

- SQUARE TWISTED — STRUCTURAL TIMBER JOINTS
- ANNULAR - RING SHANKED — STRUCTURAL TIMBER JOINTS

MACHINE DRIVEN - USE WITH PNUEMATIC MACHINE FABRICATED STRUCTURAL TIMBER ASSEMBLIES

LOST HEAD - USE FOR VISIBLE LOCATION

PANEL PIN - PUNCHED HOME & HOLE FILL.

DUPLEX HEADED SHUTTER NAIL - A WIRE NAIL FOR USE IN SITUATION WHERE WITHDRAWAL IS ANTICIPATED

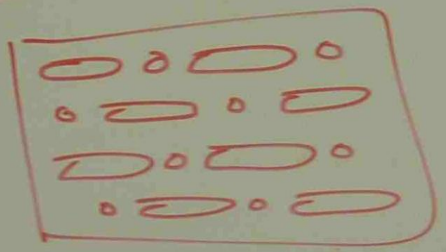
STAPLE - HAND (OR) MACHINE DRIVEN

INSULATION CONSTRUCTION RACKING INSULATION.

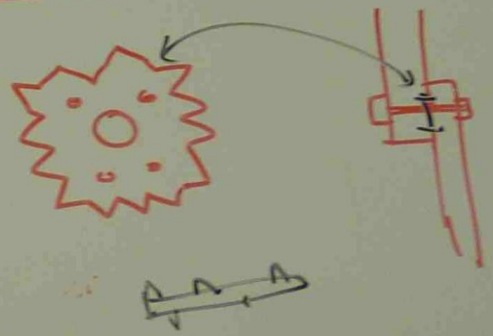
INSTALLING WOOD SCREW

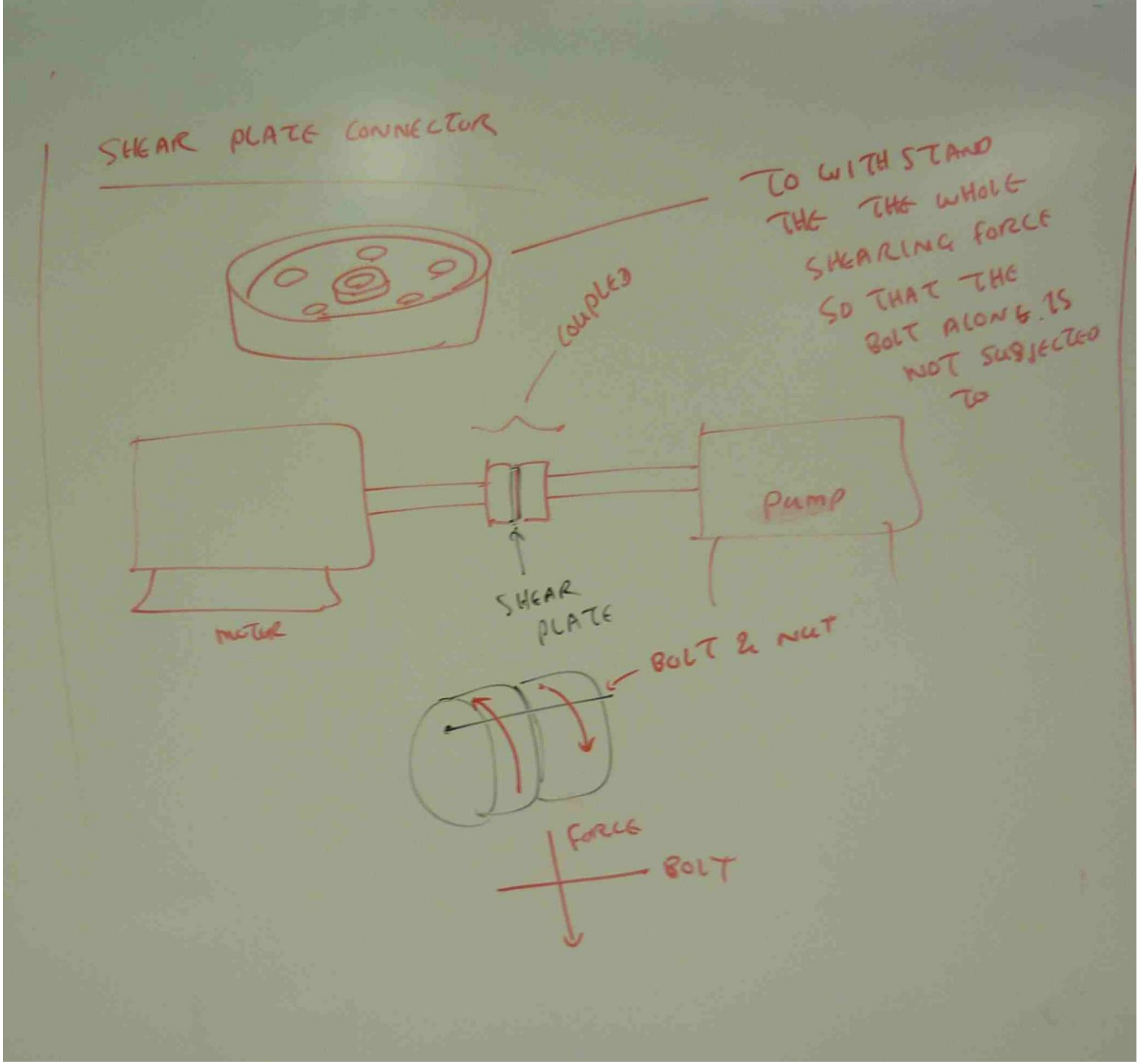
- DRILL A PILOT HOLE THROUGH THE COMPONENT AND IN TO THE BASE.
- THE PILOT HOLE SHOULD BE SHORTER THAN THE PENETRATION DEPTH OF THE SCREW FROM 3mm FOR GAUGE 3 & 4 AND UP TO 9mm FOR GAUGE 14
- INSERT THE SCREW INTO THE PILOT HOLE IN THE COMPONENT AND DRIVE IN TO THE BASE.

NAIL PLATE



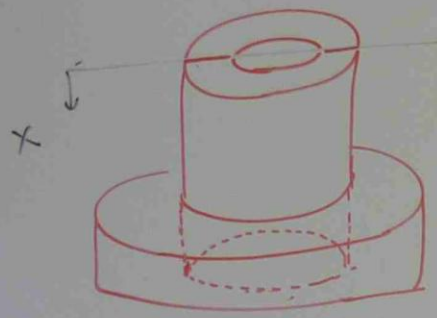
TOOTHED CONNECTORS




SHEAR PLATE CONNECTOR
TO WITH STAND THE THE WHOLE SHEARING FORCE SO THAT THE BOLT ALONG IS NOT SUBJECTED TO
COUPLED
PUMP
SHEAR PLATE
MOTOR
BOLT & NUT
FORCE
BOLT

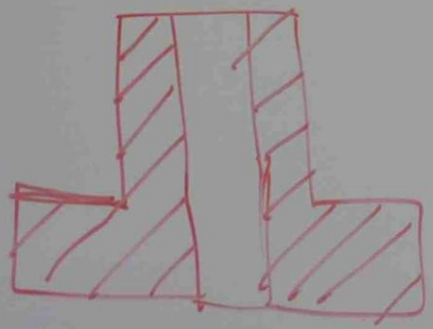
E007

SECTIONING

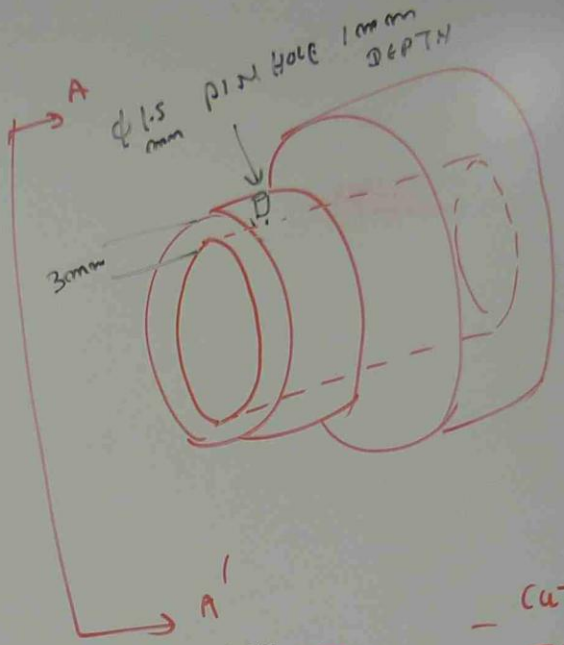


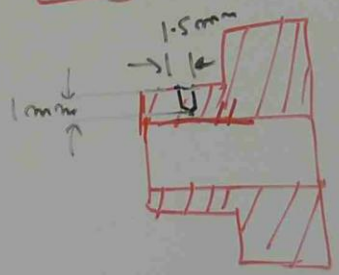
CUTTING PLANE

X - X' VIEW

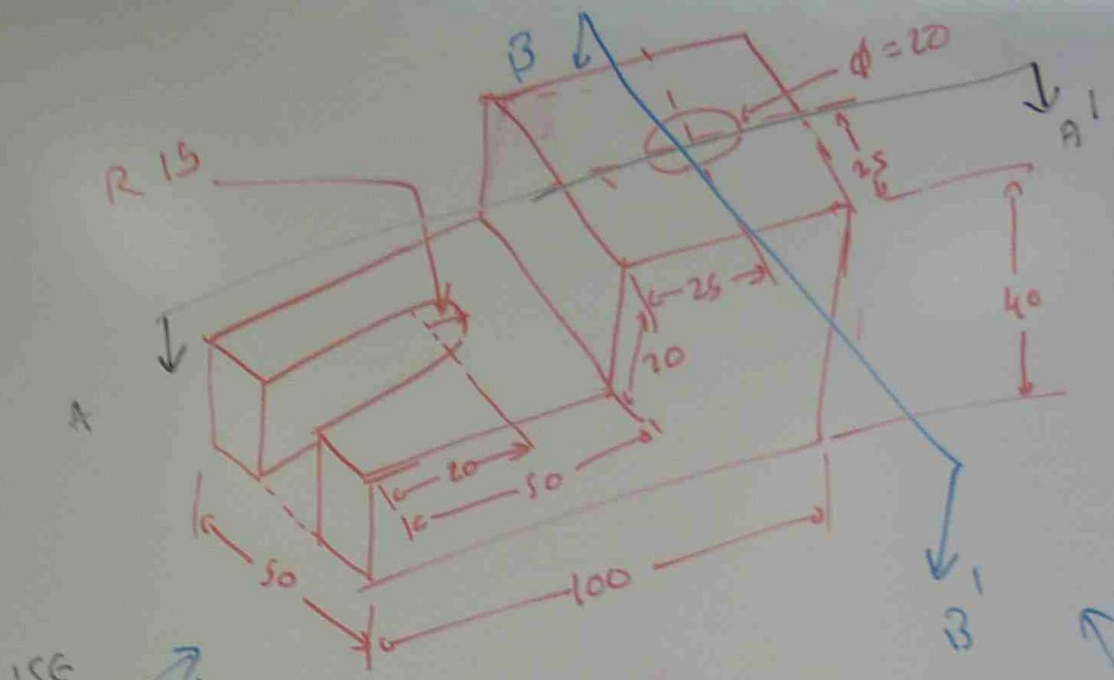


SECTIONAL VIEW





- CUTTING PLANE CUTS THE STRUCTURE
- INTERNAL STRUCTURES CAN BE MORE CLEARLY SEEN.



EXERCISE

B B'

DRAW SECTIONAL VIEW FOR A A' & B B'

A A'

OF THE ABOVE SOLID.