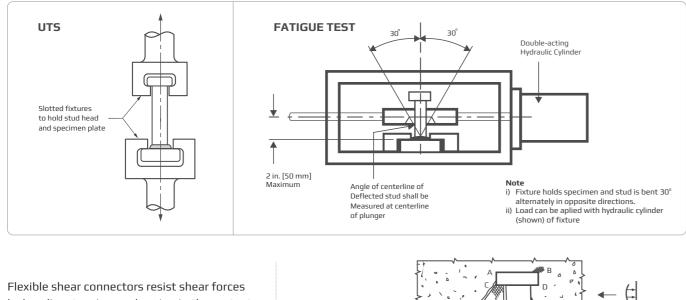
TESTING OF SHEAR CONNECTORS

BEND TEST: After welding, the strength of the weld is checked by Bend Test. Shear Connector head is hammered till it bends upto 30 degrees on one side, without failure of weld joint.

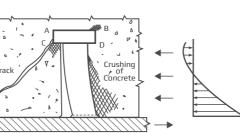
FATIGUE TEST: Fatique Test is carried out by bending welded Shear Connector, upto 30 degrees on both sides, for number of times, using specially designed hydraulic mechanism.

UTS: Ultimate Tensile Strength is carried out on Universal Testing Machine, by using fixture as shown.



by bending, tension or shearing in the root, at the connection point of steel beam, where they are subject to plastic deformations.





ADVANTAGES

- Shear Connectors have high load bearing capacity and offer heavy resistance for failure by shearing, in composite structure.
- · Very high rate of production can be achieved, during construction.
- Ease of operation, during construction. No specific skill is required for welding.
- Flexibility in design of construction.
- Shear Connectors can be welded through Deck Sheet, to produce concrete slab.
- Size of columns are smaller hence for given built up area we can have larger carpet area
- Strong, durable, stable and seismic resistant.

MANUFACTURER **& EXPORTER OF** SHEAR CONNENCTORS FOR CONSTRUCTION

STUD CRAFT is manufacturing shear connectors according to international standard ISO 13918 and testing is done as per AWS D1.1/D1.1M. Considering the criticality of application, Stud Craft has carefully selected the raw material with proper chemical composition and mechanical properties to ensure excellent weldability and strength.

Shear connectors with shank diameter 13, 16, 19, 22 and 25 mm are most commonly used worldwide, with varying lengths. Ceramic ferrules to suit the shear connectors are supplied by Stud Craft. Depending upon the application, Bare Metal or Through Deck Ceramic Ferrules are supplied.

WORKS

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SHEAR CONNECTORS

The latest technology used in construction of buildings and bridges. They are used as a major element in the composite structure. Excellent quality, high load bearing capacity, durability, faster speed of construction, etc are some of the reasons why it is gaining popularity in the construction industry.

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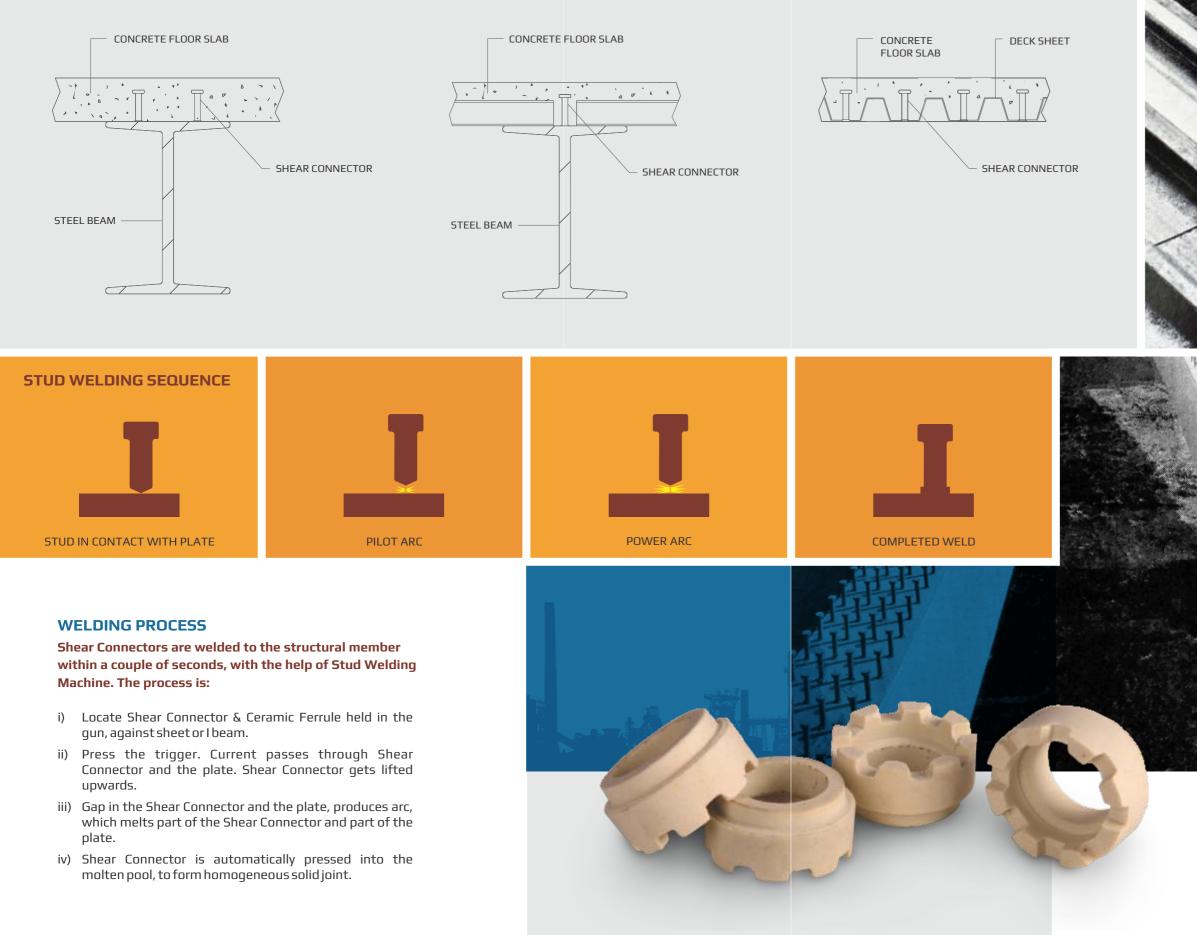


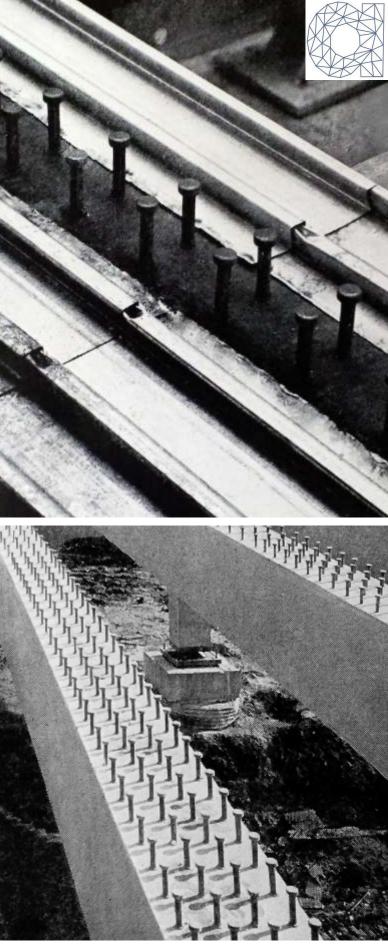




WHAT ARE SHEAR CONNECTORS?

Shear connector means headed steel studs. These are welded to a structural member for achieving composite action with concrete. Shear connector is one of the major elements in the composite structure.





CERAMIC FERRULE

IT IS MAINLY USED TO

- Control the flow of molten metal
- Protect our eyes from bright arc light
- Provide proper path for the gases to escape