

ARCHES.

Vessels of 250 tons and upwards must either be arched or have *thick ceiling*, edge bolted, with a bolt between every frame from bilge strakes to deck clamps; the breadth of the arch to be equal to one-fourth of the depth of hold. Each strake of the arch must have one through bolt and one blunt bolt in every frame, exclusive of sufficient spikes.

CLAMPS.

The collective breadth of deck clamps to be equal to one-fifth of the depth of hold. In every clamp strake of seven inches in breadth there shall be one through bolt; above seven, two through bolts; above fourteen, three through bolts; and above twenty-one inches, four through bolts in every frame, exclusive of spikes, to be driven from the outside, and clenched on a ring or washer. The joints in clamp strakes to be scarfed, and the length of scarf must not be less than four times the breadth of the strake so scarfed.

CEILING.

Ceiling to be square fastened with spikes, for every foot in breadth; and in the *thick ceiling* there must be a through bolt at every foot from bilge strake to clamp in each alternate frame. The ceiling, either in the bottom or sides, may be diminished in thickness towards the ends of the vessel.

OUTSIDE PLANK.

In all vessels the bottom plank, ten inches wide and under, to be square fastened with spikes; and over ten inches to be fastened in proportion; but the plank on the side, under eight inches wide, to be square fastened, and above that width to be fastened in proportion.

In the planking and ceiling, no butts to be nearer than five feet of each other, unless there is a strake wrought between