and from the sum is to be subtracted the product of the pressure on the windward shoe, when the bridge is empty and subjected to the greatest wind pressure, by the co-efficient of iron upon iron, which is about 0.25 for this case.

Stiffened End Panels. — If, in the end panel of a bridge, the longitudinal component of the greatest allowable working-stress (including initial tension) in the lower lateral rod exceed the tension in the lower chord of that panel, caused by the dead load alone, when the bridge is subjected to the greatest wind pressure, the bottom chord of that panel must be made to resist both tension and the excess of compression. Where two channels are employed for the lower chord section, the effective area of the webs alone must be counted on to resist tension. Where the stiffening is obtained by trussing the inner chord bars, the intensities of working tensile stress to be employed for the net section of those bars are four (4) tons for bridges of Class A, and five (5) tons for those of Classes B and C.

Top-Chord and Batter-Brace Sections. — The top chords and batter braces shall consist of two channels, with a plate above, and latticing or lacing below. The top plate must be of the same section, and the chord channels of the same depth, from end to end of span; the increase in chord section towards the middle being obtained by thickening the webs of the channels.

Post Sections. — Posts are to consist of two channels, with latticing or lacing on each side. The upper ends may be either rigidly attached to the chords, or may be hinged on the pins; preference being given to the latter method.

Portal and Upper Lateral Strut Sections. — Portal struts and upper lateral struts are to be formed of two channels, latticed or laced, and rigidly attached at their ends to the batter braces or chords.

Working Tensile Stresses. — Except for the case of trussed bars, mentioned under the divisions "Stiffened End Panels" and "Stiffened Hip Verticals," the intensities of working-stresses for iron in tension in the various members are to be as given in the following table:—