is much greater than that of cast-iron; hence for long
pillars, wrought-iron is preferred. Cast-iron is not suitable
for tie-bars, on account of the flaws in the casting
and its small tearing weight, which is 15,650 pounds per
square inch, and its safe working load is about
one-sixth of this. While the tearing weight of wrought
iron is 54,000 pounds per square inch, and its safe
working load is one-fourth of this; hence wrought-iron is