

[Document Type] Abstract

[Title of the Invention] METHOD OF DESIGNING FIRE RESISTANT
STRUCTURE, METHOD OF CONSTRUCTING FIRE RESISTANT STRUCTURE,
AND FIRE RESISTANT STRUCTURE

In a method of designing a fire resistant structure, a structure determination step of determining a disposition of a slab, a plurality of beams supporting the slab from below, and columns supporting the plurality of beams by performing a structural calculation, a fire resistant specification determination step of performing setting so that a periphery of a floor portion partitioned from the slab is supported from below by a protected beam with fireproof coating obtained by subjecting the beam to a fireproof coating, a first support specification determination step of performing setting so that an extended beam is connected to a connected corner so as to support a part of the extended beam different from a part of the extended beam connected to the connected corner by a protected column with fireproof coating, and a second support specification determination step of performing setting so that the connected corner is not directly supported by the column or is supported from below by a protected column with reduced fireproof coating having a reduced fireproof coating compared to the first protected column with fireproof coating are performed.

FIG. 8