

[Document Type] Abstract

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

What is provided is a method of designing a fire resistant structure, in which the fire resistant structure includes a plurality of protected columns with fireproof coating subjected to a fireproof coating, a plurality of protected beams with fireproof coating that are subjected to a fireproof coating and connect the plurality of protected columns with fireproof coating to each other, and a floor portion partitioned from a slab including a tensile force transmitting member, in a plan view, the floor portion is formed in a polygonal shape different from a rectangular shape, and a structure determination step of determining the disposition of the slab, beams, and columns and a fire resistant specification determination step of performing setting a periphery of the floor portion partitioned from the slab is supported from below by the protected beam with fireproof coating obtained by subjecting the beam to the fireproof coating.

FIG. 8