CLAIMS

1. A steel form for steel-framed concrete beam formation, comprising:

a pair of frame members, wherein

each of the pair of frame members is provided with a bottom plate portion and a side plate portion extending upward from the bottom plate portion,

the bottom plate portion has a joining surface for joining the respective bottom plate portions of the pair of frame members to each other, and

a groove portion allowing concrete placement is formed by the respective bottom and side plate portions of the pair of frame members~~.~~,

the steel form comprising,

a flange portion extending outward from an upper end of the side plate portion, and

a reinforcing portion extending downward or upward from an outer end of the flange portion, wherein

the steel form is a formwork for forming a binding beam to be joined to a girder,

a space enclosed by the side plate portion, the flange portion, and the reinforcing portion is formed as a sealing material placement space for placing a sealing material, and by placing the sealing material in the sealing material placement space, concrete is prevented from leaking out of the steel form through the space when the concrete is poured into the steel form and the girder while the steel form is connected to the girder.

~~2. The steel form according to claim 1, wherein an allowable bending moment or~~

~~an allowable shear force of the steel-framed concrete beam is calculated by Equation (1) below:~~

~~(Equation 1) $F_a = F_{RC} + \beta \cdot F_S$~~

~~wherein,~~

~~F_a: an allowable bending moment or an allowable shear force of the steel-framed concrete beam,~~

~~F_{RC}: an allowable bending moment or an allowable shear force of the concrete,~~

~~β: a burden factor of an allowable bending moment or an allowable shear force of the steel form, which is 0.5 or less, and~~

~~F_S: an allowable bending moment or an allowable shear force of the steel form.~~

~~3. The steel form according to claim 1 or 2, wherein~~

~~a part of the steel-framed concrete beam is joined to a girder, and~~

~~the steel form is provided with an end portion on the girder side in a longitudinal direction of the steel form, accommodated in the girder via a notch formed in a side surface of the girder, and having a length equal to or greater than a cover thickness of the girder.~~

~~4. The steel form according to any one of claims 1 to 3, wherein a non-opening member for fixing the pair of side plate portions to each other is provided in a range from an upper end position of the pair of side plate portions to a position below the upper end position by one-third of a height of the pair of side plate portions.~~

~~5. The steel form according to any one of claims 1 to 4, wherein the steel form is provided with a flange portion extending outward from an upper end of the side plate portion.~~

~~6. The steel form according to claim 5, wherein the steel form is provided with a reinforcing portion extending downward or upward from an outer end of the flange portion.~~