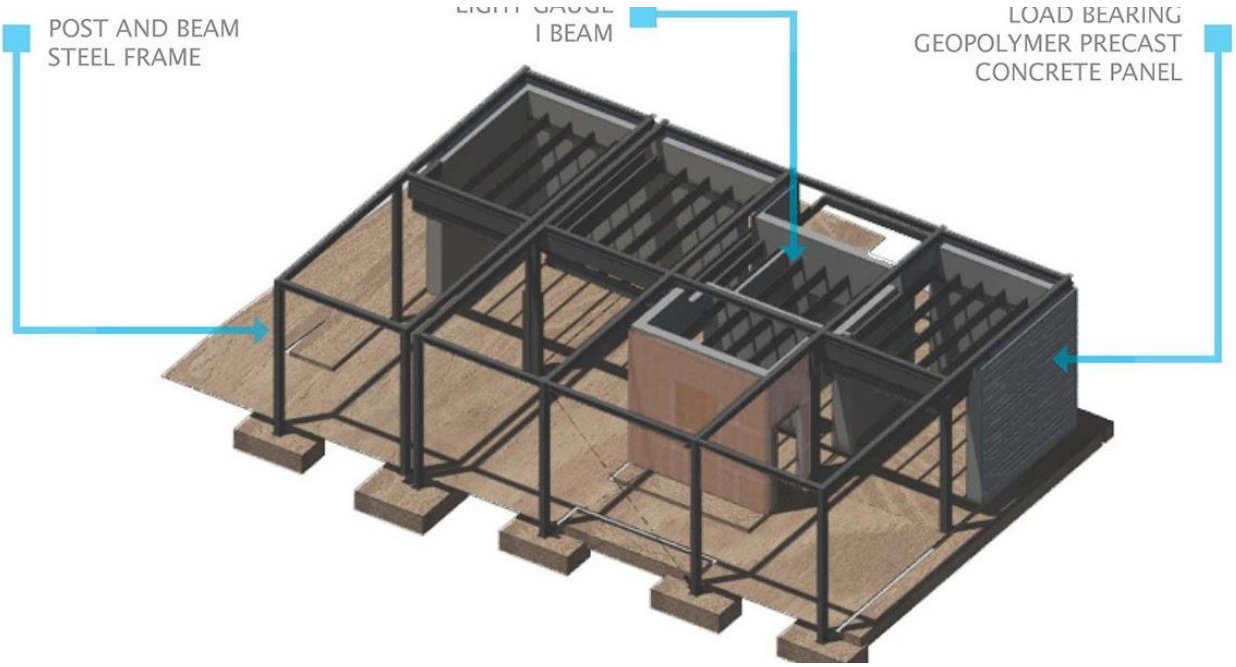
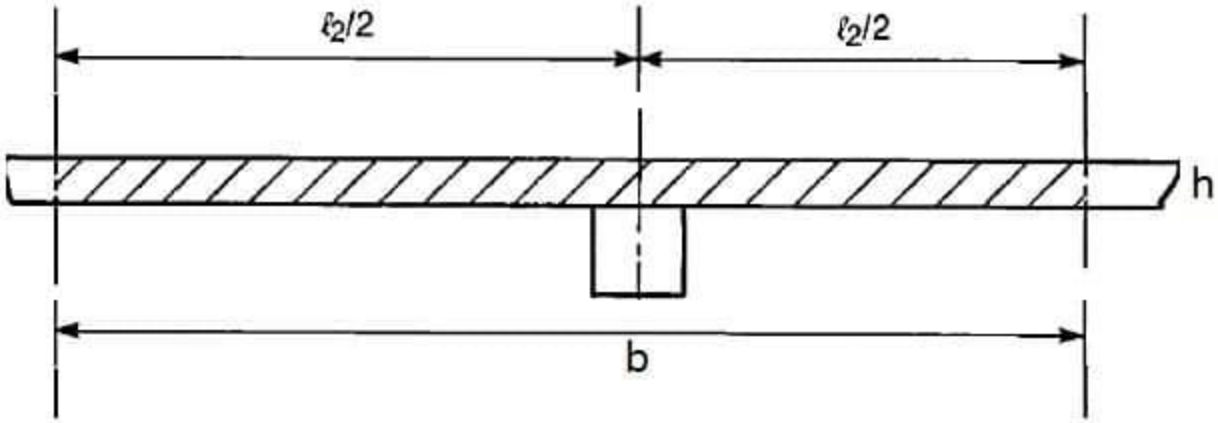
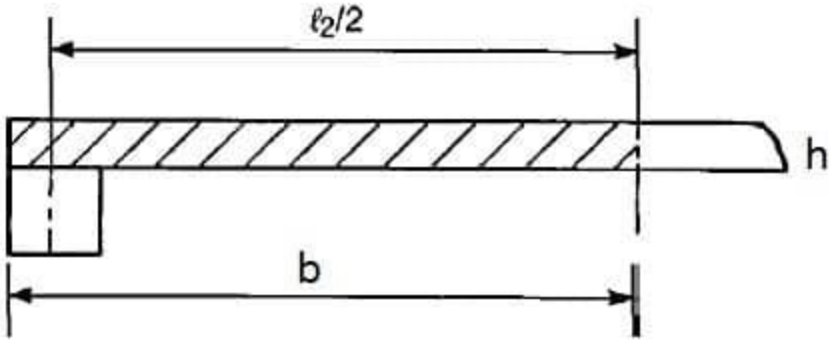
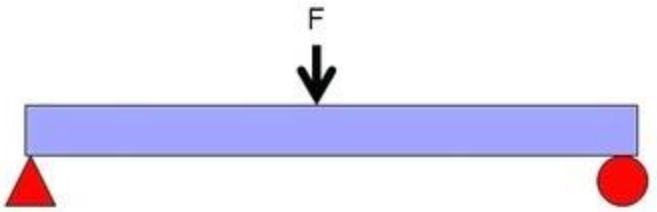

POST AND BEAM
STEEL FRAME
I BEAM
LOAD BEARING
GEOPOLYMER PRECAST
CONCRETE PANEL

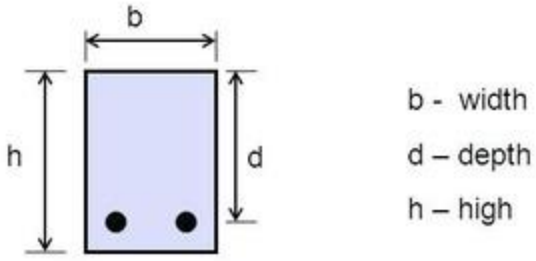

ℓ2/2
ℓ2/2
h
b


ℓ2/2
h
b

BEAM DESIGN

Cross Section Detail

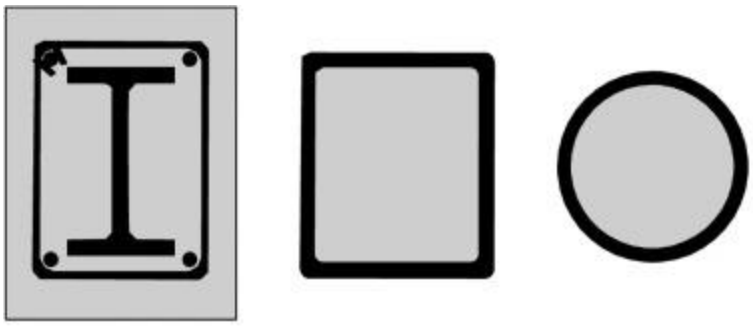




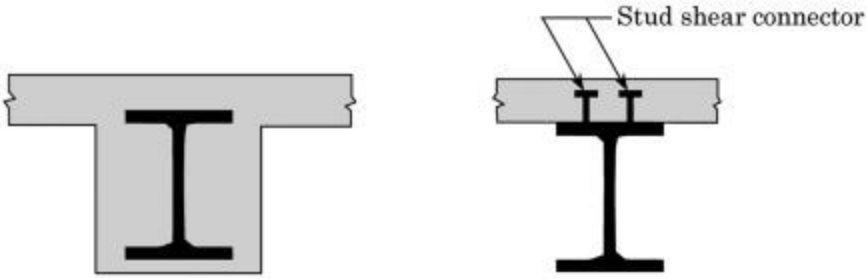
	Without drop panel			**With drop panel**		
Yield stress f_y[1], MPa	Exterior panel		Interior panel	Exterior panel		Interior panel
	Without edge beams	With edge beams[2]		Without edge beams[2]	With edge beams	
280	$l_n/_{33}$	$l_n/_{36}$	$l_n/_{36}$	$l_n/_{36}$	$l_n/_{40}$	$l_n/_{40}$
420	$l_n/_{30}$	$l_n/_{33}$	$l_n/_{33}$	$l_n/_{33}$	$l_n/_{36}$	$l_n/_{36}$
520	$l_n/_{28}$	$l_n/_{31}$	$l_n/_{31}$	$l_n/_{31}$	$l_n/_{34}$	$l_n/_{34}$

[1]linear interpolation must be used for yield stress that is between values provided in the table

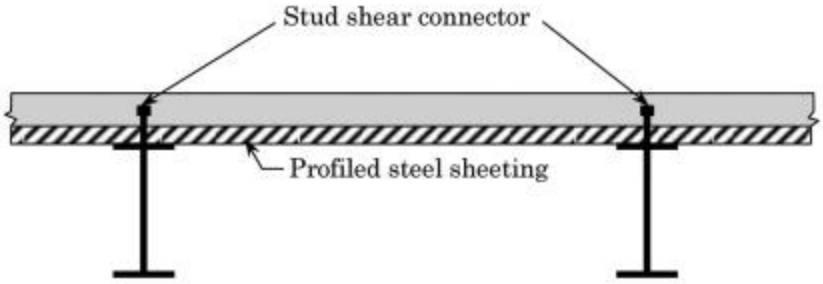
[2]when the slab is supported by beams between columns along exterior edges, the value of (α_f) for edge beams should not be less than 0.8.



(A)



(B)



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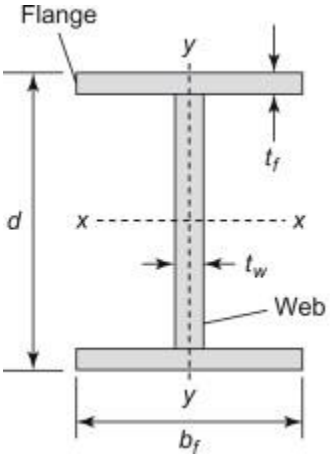

x-x is the major (strong) axis
y-y is the minor (weak) axis