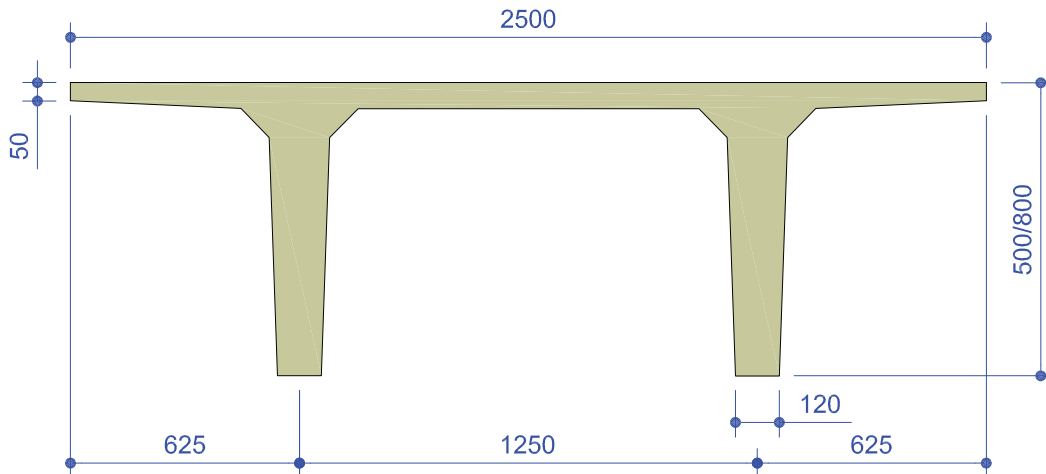
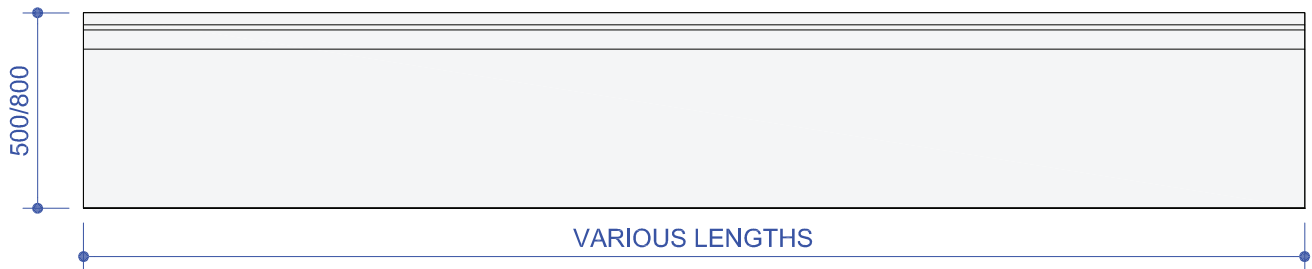


PRESTRESSED DOUBLE T-BEAMS



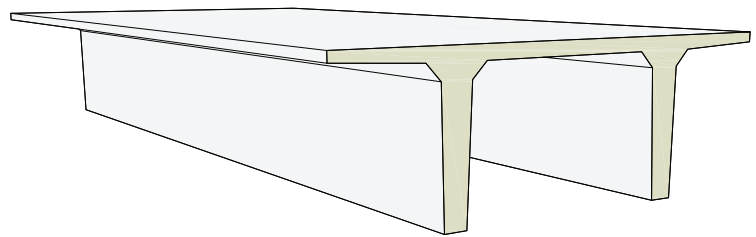
CROSS SECTION PROFILE



SIDE VIEW

SECTION CHARACTERISTICS

H	= 80cm	H	= 50cm
Ag	= 3726cm ²	Ag	= 2955cm ²
Weight	= 913kg/m	Weight	= 724kg/m
h	= 80cm	h	= 50cm
S _i	= 28428cm ³	S _i	= 15024cm ³
J	= 2343725cm ⁴	J	= 668924cm ⁴
i	= 24.77cm	i	= 14.91cm
Y _{inf}	= 54.62cm	Y _{inf}	= 35.41cm
Ws	= 92345cm ³	Ws	= 45842cm ³
Wi	= 42909cm ³	Wi	= 18892cm ³



Material Characteristic

Concrete grade - 45/35
Cables Tension - 1300MN/sqm

Note:

- Safe loads can be increased by addition of 6cm structural topping, however load to topping must be added to safe loads.
- Beams are assumed to be laid adjacent to one another.

SAFE LOAD TABLE

HT. / TT Beam \ Load	100kg/m ²	300kg/m ²	600kg/m ²	800kg/m ²	1000kg/m ²	1750kg/m ²
H = 80cm	L _{MAX} 25mts	L _{MAX} 20mts	L _{MAX} 17mts	L _{MAX} 15mts	L _{MAX} 14mts	L _{MAX} 10mts
H = 50cm	L _{MAX} 16mts	L _{MAX} 13mts	L _{MAX} 10.5mts	L _{MAX} 9.5mts	L _{MAX} 8mts	L _{MAX} 7mts

ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS OTHERWISE STATED