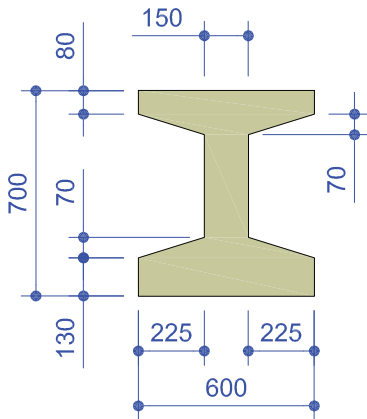
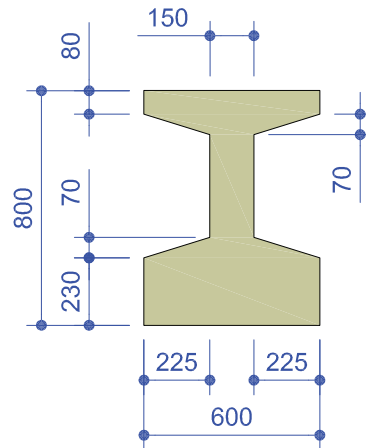


PRESTRESSED I-BEAMS



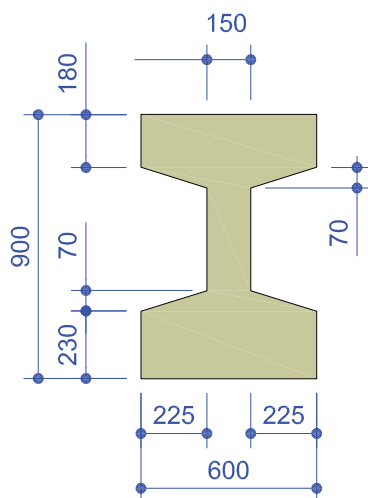
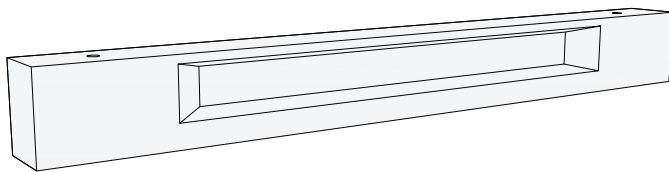
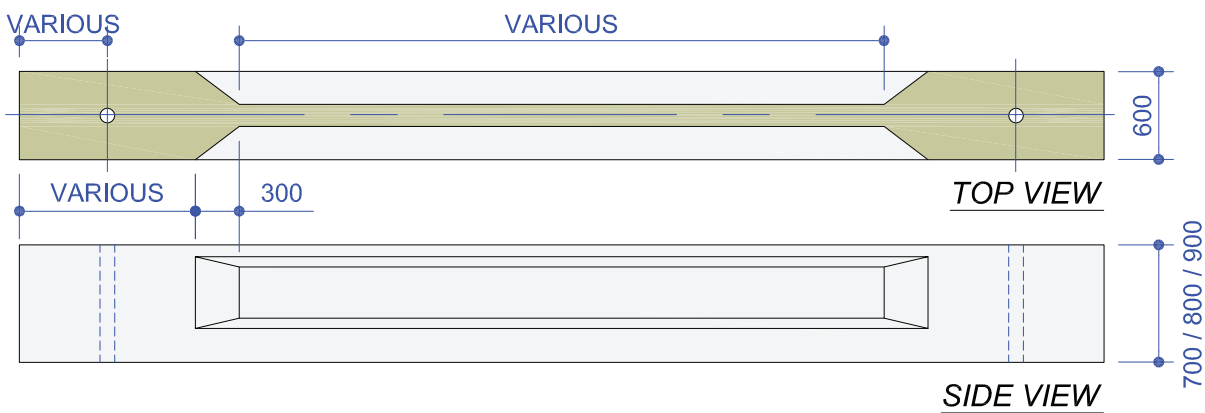
| | |
|------------------|--------------------------|
| Ag | = 2290cm ² |
| Weight | = 561kg/m |
| h | = 70cm |
| S _i | = 23287cm ³ |
| J | = 1458154cm ⁴ |
| i | = 24.71cm |
| Y _{inf} | = 32.23cm |
| Ws | = 38609cm ³ |
| Wi | = 45237cm ³ |

CROSS SECTION PROFILE - 700mm



| | |
|------------------|--------------------------|
| Ag | = 2877cm ² |
| Weight | = 705kg/m |
| h | = 80cm |
| S _i | = 29252cm ³ |
| J | = 2177503cm ⁴ |
| i | = 26.76cm |
| Y _{inf} | = 34.20cm |
| Ws | = 47543cm ³ |
| Wi | = 63671cm ³ |

CROSS SECTION PROFILE - 800mm



| | |
|------------------|--------------------------|
| Ag | = 3475cm ² |
| Weight | = 851kg/m |
| h | = 90cm |
| S _i | = 48541cm ³ |
| J | = 3478031cm ⁴ |
| i | = 30.88cm |
| Y _{inf} | = 42.54cm |
| Ws | = 73277cm ³ |
| Wi | = 81767cm ³ |

CROSS SECTION PROFILE - 900mm

Note:

1. Section properties and site load can be increased by considering concrete in-situ stitch over beam.
2. Beams are assumed to be connected to vertical structure by 25mm dowel bars at each end, connection to horizontal structure by concrete in-situ composite construction.
3. Seating to beam is to be on galvanised steel or lead plates

Material Characteristic

Concrete grade - 45/35

Cables Tension - 1300MN/sqm