



5 ALLOWABLE LOADING SINGLE SPAN GIRDER

The values of the table below are only valid for single-span girder.

The truss-elements have to be braced with diagonals according chapter 2.

Large loads have to be applied at the nodes or have to be distributed by appropriate constructions.

Loads at the middle of the couplers are not allowed.

All loads have to be distributed equally to both chords.

The specified values include partial safety coefficients on the loadings side acc. EN 1990 of $\gamma_F = 1.50$ for payloads and $\gamma_G = 1.35$ for selfweight of the truss.

For applications which can be calculated on the basis of other codes, the partial safety factors can be adjusted (for example temporary structures acc. EN 13814, $\gamma_F = 1.35$ for payloads).

To use the resulting allowable loads with British Standard (BS) and ANSI, allowable loads listed in tables have to be multiplied by 0.85.

The values are calculated with no requirements for the location of the couplers.

span [m]	central point Load CPL		uniformly distr. Load UDL	
	[kg]	deflection [mm]	[kg/m]	deflection [mm]
2	328	4	228	4
3	198	8	104	8
4	138	12	54	12
5	102	17	34	19
6	78	23	21	26
7	61	32	14	35
8	48	42	10	46
9	36	53	6,5	57

deflection > L / 200