

DESIGN SPANS (132 KV)

Abbr.	Tower Type	Basic-span m	Wind Span m	Max. Weight-Span m	Min. Weight-Span
S	Suspension	350	400	500	125
AT	Angle tension	350	400	500	-
BAT	Big angle tension	350	400	500	-
DE	Dead-end tension	250	300	450	-
G	Substation gantry	120	120	120	-

DESIGN DATA

Item	Description	Data	
1	Temperatures		
1.1	Maximum temperature of conductor	°C	80
1.2	Everyday temperature of conductor	°C	35
1.3	Minimum temperature of conductor	°C	5
1.4	Maximum temperature of OPGW	°C	60
1.5	Everyday temperature of OPGW	°C	35
1.6	Minimum temperature of OPGW	°C	5
2.	Wind Loads		
	Wind Pressure on Tower and its attachments shall be calculated for a wind speed of 160Kmph combined with the temperature of 5°C. The wind speed is a gust wind of 3 seconds duration at a height of 10 m and a return period of 50 years.	According to VDE 0210. The dynamic wind pressure in Table 5 is based on a wind speed of 120 Kmph. Dynamic Pressure must be increased by a factor of $(160/120)^2$.	