

C2

Technical Schedules / Data Sheets 110 kV OHL

Lot 2 - OHL: Element B.3: 110 kV OHL Ozurgeti - Zoti				
C2. Technical Schedules / Data Sheets		Bidder / Contractor		
BIDDER'S / CONTRACTOR'S GUARANTEED DATA		Minimum requirements		Offered
No.	Description	Unit	Data	Data
5.0	Lattice steel towers			
5.1	General data			
5.1.1	Manufacturer	Company		
5.1.2	Material used:			
	• Structural steel members standard	-	EN10025	EN10025
	• Steel qualities for			
	o main stressed parts	-	S355/J2 S235/J2	S355/J2 S235/J2
	o for other parts	-	S355/J2 S235/J2	S355/J2 S235/J2
	• Bolts and nuts standard	-	ISO 898-1	ISO 898-1
	• Bolts and nuts steel qualities:	-	5.6 or 8.8	8.8
5.1.3	Step bolt diameter (min.)	mm	16	16
5.1.4	Permissible stresses of structural members, bolts and nuts correspond with	-	EN1993-1-1 EN50341-1-J	EN1993-1-1 EN50341-1-J
5.1.5	Bolt connections secured with flat washers and spring washers		yes	yes
5.1.6	All tower steel parts hot dip galvanized	-	yes	yes
5.1.7	Zinc coat for steel sections, fittings, etc. Zinc coat for bolts, nuts and washers	µm µm	85 55	85 55
5.1.8	Quality and tests for corrosion protection correspond with		EN ISO 1461	EN ISO 1461
5.1.9	Min. diameter of bolts at stressed member connections	mm	16	16
5.1.10	Min. number of bolts at stressed member connection	-	2	2
5.1.11	Maximum slenderness ratio – L/r			
	• Main leg, stub and main compression members in crossarm	-	120	120
	• All other members having computed stresses	-	200	200
	• Redundant members without computed stressed	-	250	250
	• Tension members only	-	350	350
5.1.12	Minimum thickness (t) and size of steel members of towers shall be as follows:			
	• Main leg, stub and main compression members in crossarm	mm	6	6
	• All other members having computed stresses	mm	5	5
	• Redundant members without computed stressed	mm	4	4

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No.	Description	Unit	Data	Data
	• Gusset plates	mm	6	6
	• Stub angle	mm	8	8
5.1.13	Minimum angle bars: equal angle sections	-	L45x45x4	L45x45x4
5.1.14	Minimum angle bars: unequal angle sections	-	L45x30x4	L45x30x4
5.1.15	Maximum length of structural member	m	9	9
5.1.16	Tolerances of finished members:			
	• Max. lateral variations of actual length between points of lateral supports		EN 10056-2	EN 10056-2
	• Finished members			
	o Members up to 3 m length	mm	± 1.5	± 1.5
	o Members greater than 3 m length			
	▪ 3 m to 6 m	mm	± 2.5	± 2.5
	▪ greater than 6 m	mm	± 3	± 3