

Technical drawing of a 110kV transmission tower (type 110T100) showing its structural layout, dimensions, and component specifications.

Key Dimensions:

- Total Height: 39700 mm
- Base Width: 9120 mm
- Top Width: 16800 mm
- Height to Top Cross-Arm: 11500 mm
- Height to Bottom Cross-Arm: 21650 mm
- Height to Foundation: 39700 mm

Structural Components and Specifications:

- Central Column:** L60/6 IM16, L50/4 IM12, L45/4 IM12, L30/6 IM12, L20/6 IM12, L10/6 IM12, L5/4 IM12, L3/4 IM12, L2/4 IM12, L1/4 IM12, L0.5/4 IM12, L0.2/4 IM12, L0.1/4 IM12, L0.05/4 IM12, L0.02/4 IM12, L0.01/4 IM12, L0.005/4 IM12, L0.002/4 IM12, L0.001/4 IM12, L0.0005/4 IM12, L0.0002/4 IM12, L0.0001/4 IM12, L0.00005/4 IM12, L0.00002/4 IM12, L0.00001/4 IM12, L0.000005/4 IM12, L0.000002/4 IM12, L0.000001/4 IM12, L0.0000005/4 IM12, L0.0000002/4 IM12, L0.0000001/4 IM12, L0.00000005/4 IM12, L0.00000002/4 IM12, L0.00000001/4 IM12, L0.000000005/4 IM12, L0.000000002/4 IM12, L0.000000001/4 IM12, L0.0000000005/4 IM12, L0.0000000002/4 IM12, L0.0000000001/4 IM12, L0.00000000005/4 IM12, L0.00000000002/4 IM12, L0.00000000001/4 IM12, L0.000000000005/4 IM12, L0.000000000002/4 IM12, L0.000000000001/4 IM12, L0.0000000000005/4 IM12, L0.0000000000002/4 IM12, L0.0000000000001/4 IM12, L0.00000000000005/4 IM12, L0.00000000000002/4 IM12, L0.00000000000001/4 IM12, L0.000000000000005/4 IM12, L0.000000000000002/4 IM12, L0.000000000000001/4 IM12, L0.0000000000000005/4 IM12, L0.0000000000000002/4 IM12, L0.0000000000000001/4 IM12, L0.00000000000000005/4 IM12, L0.00000000000000002/4 IM12, L0.00000000000000001/4 IM12, L0.000000000000000005/4 IM12, L0.000000000000000002/4 IM12, L0.000000000000000001/4 IM12, L0.0000000000000000005/4 IM12, L0.0000000000000000002/4 IM12, L0.0000000000000000001/4 IM12, L0.00000000000000000005/4 IM12, L0.00000000000000000002/4 IM12, L0.00000000000000000001/4 IM12, L0.000000000000000000005/4 IM12, L0.000000000000000000002/4 IM12, L0.000000000000000000001/4 IM12, L0.0000000000000000000005/4 IM12, L0.0000000000000000000002/4 IM12, L0.0000000000000000000001/4 IM12, L0.00000000000000000000005/4 IM12, L0.00000000000000000000002/4 IM12, L0.00000000000000000000001/4 IM12, L0.000000000000000000000005/4 IM12, L0.000000000000000000000002/4 IM12, L0.000000000000000000000001/4 IM12, L0.0000000000000000000000005/4 IM12, L0.0000000000000000000000002/4 IM12, L0.0000000000000000000000001/4 IM12, L0.00000000000000000000000005/4 IM12, L0.00000000000000000000000002/4 IM12, L0.00000000000000000000000001/4 IM12, L0.000000000000000000000000005/4 IM12, L0.000000000000000000000000002/4 IM12, L0.000000000000000000000000001/4 IM12, L0.0000000000000000000000000005/4 IM12, L0.0000000000000000000000000002/4 IM12, L0.0000000000000000000000000001/4 IM12, L0.00000000000000000000000000005/4 IM12, L0.00000000000000000000000000002/4 IM12, L0.00000000000000000000000000001/4 IM12, L0.000000000000000000000000000005/4 IM12, L0.000000000000000000000000000002/4 IM12, L0.000000000000000000000000000001/4 IM12, L0.0000000000000000000000000000005/4 IM12, L0.0000000000000000000000000000002/4 IM12, L0.0000000000000000000000000000001/4 IM12, L0.00000000000000000000000000000005/4 IM12, L0.00000000000000000000000000000002/4 IM12, L0.00000000000000000000000000000001/4 IM12, L0.000000000000000000000000000000005/4 IM12, L0.000000000000000000000000000000002/4 IM12, L0.000000000000000000000000000000001/4 IM12, L0.0000000000000000000000000000000005/4 IM12, L0.0000000000000000000000000000000002/4 IM12, L0.0000000000000000000000000000000001/4 IM12, L0.00000000000000000000000000000000005/4 IM12, L0.00000000000000000000000000000000002/4 IM12, L0.00000000000000000000000000000000001/4 IM12, L0.000000000000000000000000000000000005/4 IM12, L0.000000000000000000000000000000000002/4 IM12, L0.000000000000000000000000000000000001/4 IM12, L0.0000000000000000000000000000000000005/4 IM12, L0.0000000000000000000000000000000000002/4 IM12, L0.0000000000000000000000000000000000001/4 IM12, L0.00000000000000000000000000000000000005/4 IM12, L0.00000000000000000000000000000000000002/4 IM12, L0.00000000000000000000000000000000000001/4 IM12, L0.000000000000000000000000000000000000005/4 IM12, L0.000000000000000000000000000000000000002/4 IM12, L0.000000000000000000000000000000000000001/4 IM12, L0.0000000000000000000000000000000000000005/4 IM12, L0.0000000000000000000000000000000000000002/4 IM12, L0.0000000000000000000000000000000000000001/4 IM12, L0.005/4 IM12, L0.002/4 IM12, L0.0

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Technical drawing of a roof truss (krovník) showing dimensions and structural details. The drawing includes a side elevation and a cross-section. Key dimensions include a total width of 15.87m, a central span of 15.25m, and a height of 5.00m. Structural details include L70/6 2M16 bolts with a 150mm spacing, L45/5 1M12 bolts, and L50/6 1M12 bolts. The roof is labeled 'Příčky' (Ribs) and 'Diagonály' (Diagonals). The roof pitch is indicated as 'Rohový úhel 1:2' (Pitch angle 1:2).

Technical drawing of a roof plan showing dimensions and tile layout. The drawing includes labels for the roof tiles: L80/R 2M16, L50/S 1M12, L70/S 3M20, and L80/S 2M20. The gable end is labeled 'Rohový šteiník'.

Technical drawing of a roof truss (Střešní konstrukce) showing a cross-section with dimensions and structural details.

Dimensions:

- Overall width: 10700
- Overall height: 500
- End overhangs: 1000
- Internal spacing (from left end): 1150.5, 4x1200, 1250, 1300, 2399, 1300, 1250, 4x1200, 1150.5

Structural Details:

- Roof profile: 2x IPE 10 3M16
- Truss members: L60/8 2M16
- Diagonal bracing: L45/4 1M12, L50/4 1M12, L60/6 1M12, L70/6 1M12, L90/8 3M20
- Support details: 2x IPE 10 3M16, L60/6 1M12, L50/4 1M12, L45/4 1M12, L60/6 1M12, L70/6 1M12, L90/8 3M20, L60/6 1M12, L50/4 1M12, L70/6 1M12, L90/8 3M20

Labels:

- Průřez (Cross-section)
- Diagonály (Diagonals)
- Rohový Gheinf (Corner Gheinf)

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The drawing shows a cross-section of a roof truss with a total width of 14500 mm. The roof slope is 10%. The truss consists of a central section with a height of 3204 mm and two side sections with a height of 1473 mm. The roof is covered with 2x10/6 mm rafters (L45/4 IM12) and 1x10/6 mm rafters (L50/4 3M16). The roof is supported by a central section with a height of 3204 mm and two side sections with a height of 1473 mm. The truss is supported by a central section with a height of 3204 mm and two side sections with a height of 1473 mm. The truss is supported by a central section with a height of 3204 mm and two side sections with a height of 1473 mm.

Diagram of a tapered beam with two horizontal cross-sections. The top cross-section is labeled L60/6 and 1M12. The bottom cross-section is labeled L40/4 and 1M12.

A diagram of a triangular roof structure. The top section is a triangle with two sides labeled $L70/6$ and a horizontal base labeled $1M12$. Below this is another horizontal line labeled $L45/4$, with a section labeled $1M12$ between the two horizontal lines. The bottom section is a triangle with a horizontal base labeled $1M12$.

A diagram of a diamond-shaped structure, likely a cross-section of a cable or pipe. It is divided into three horizontal sections. The top section is a triangle with labels 'L90/6' on the left side and '1M12' on the right side. The middle section is a trapezoid with a label 'L90/6' on the left side and '1M12' on the right side. The bottom section is a trapezoid with a label 'L50/4' on the left side and '1M12' on the right side.

Poznámky:

- 1) Šifra výsledků hran rohových uhelníků DZL v ose učitru (ŘEZ 1-3 a 2-2) je 500mm.
- 2) Šifra výsledků hran rohových uhelníků na horní konzole v ose učitru (ŘEZ 3-3 a 4-4) a na dolní konzole (ŘEZ 5-5 a 6-6) je 500mm.
- 3) U stovkových plízků dílů stoužaru je uvedena minimální tloušťka a šifra.
- 4) Profiz L110 bude mít pouze jednu šroubovací osu v vzdálenosti 50mm od příruby.
- 5) Profiz L120 bude mít šroubovací osy od příruby v vzdálenosti 50mm + 40mm pro šrouby M20.
- 6) Profiz L130 bude mít šroubovací osy od příruby v vzdálenosti 50mm + 45mm.
- 7) Profiz L140 bude mít šroubovací osy od příruby v vzdálenosti 55mm + 50mm.
- 8) DETAIL C viz výkres č. ZE1 1501S.
- 9) POHLED B a POHLED B' pro dvoubodové uchycení fázového vodiče viz. výkres č. ZE1 1508S.
- 10) POHLED A a POHLED B pro dvoubodové uchycení fázového vodiče viz. výkres č. ZE1 1509S.

ŘÍZ	a [mm]	DIMENZE											
		RAM Centr. výplet	ŠROUB	RAM Boční výplet	ŠROUB	DG	ŠROUB	PR č.1	ŠROUB	PR č.2	ŠROUB	PR č.3	ŠROUB
I - I	3435	L60/6	2M16	L60/6	2M16	L60/6	1M12	L50/4	1M12				
II - II	4320	L60/6	2M16	L60/6	2M16	L80/6	1M12	L60/6	1M12				
III - III	5205	L60/6	2M16	L60/6	2M16	L60/6	1M12	L45/4	1M12	L45/4	L70/6	1M12	
IV - IV	6090	L60/6	2M16	L60/6	2M16	L60/6	1M12	L45/4	1M12	L50/4	1M12	L70/6	1M12
V - V	6975	L70/6	2M16	L70/6	2M16	L70/6	1M12	L45/4	1M12	L60/6	1M12	L90/6	1M12
VI - VI	7860	L80/6	2M16	L80/6	2M16	L80/6	1M12	L50/4	1M12	L70/6	1M12	L90/6	1M12

MATERIÁL :


OCEL S 355SJ2 dodávať s Inšpekčným certifikátom 3.1 die ČSN EN 10 204
ŠROUBY 8.8

DRÁT SVAŔOVCÍ: G3SiH (ČSN EN ISO 14341-A) dodávať se Zkušební zprávou 2.2. die ČSN EN 10 204

Typ: ESAB OK Aristor 12.50 ISO

OCHRANNÝ PLYN: M21 ISO 14175)

- 1) Zajištění jakosti svařování: ČSN EN ISO 3834-2
- 2) Metody svařování ČSN EN ISO 4063: 135
- 3) Příprava svařovacích ploch: ČSN EN ISO 9692-1
- 4) Svary provedeny dle WPS (ČSN EN ISO 15609-1) kvalifikovaných dle WPQR (ČSN EN ISO 15614-1)
- 5) Stupeň jakosti svaru: B (ČSN EN ISO 5817)
- 6) Metody NDT: metoda VT dle ČSN EN ISO 17637
- 7) Kvalifikace svařáře: Podle ČSN EN 287-1

 ZHOVOTVĚ: ČEPS invest, a.s. Elektrárna 774/2, 101 52 Praha 10		REVIZE: 11/2015 STARÝ VÝKRES: OEI 13001 OEI 13043
MĚŘITKO: 1:100 VEDOUcí ZAKÁZKY: Ing. Laub KONTROLOVAL: Ing. Laub VYPRACOVAL: Rieš	STUPEŇ: 1 POČET A4: 184 ČÍSLO ZAKÁZKY: POR. ČÍSLO ARCHIV AIP:	DATUM: 1/2014 LIST:
Vedení 1 x 400V, 2 x 400V NÁZEV: Stožár DUNAJ typ N₃₅₀ L+0, +6, +12 Návrh N2, extrémní vlnr + redukovaná nárma,		
OEI 13043a		