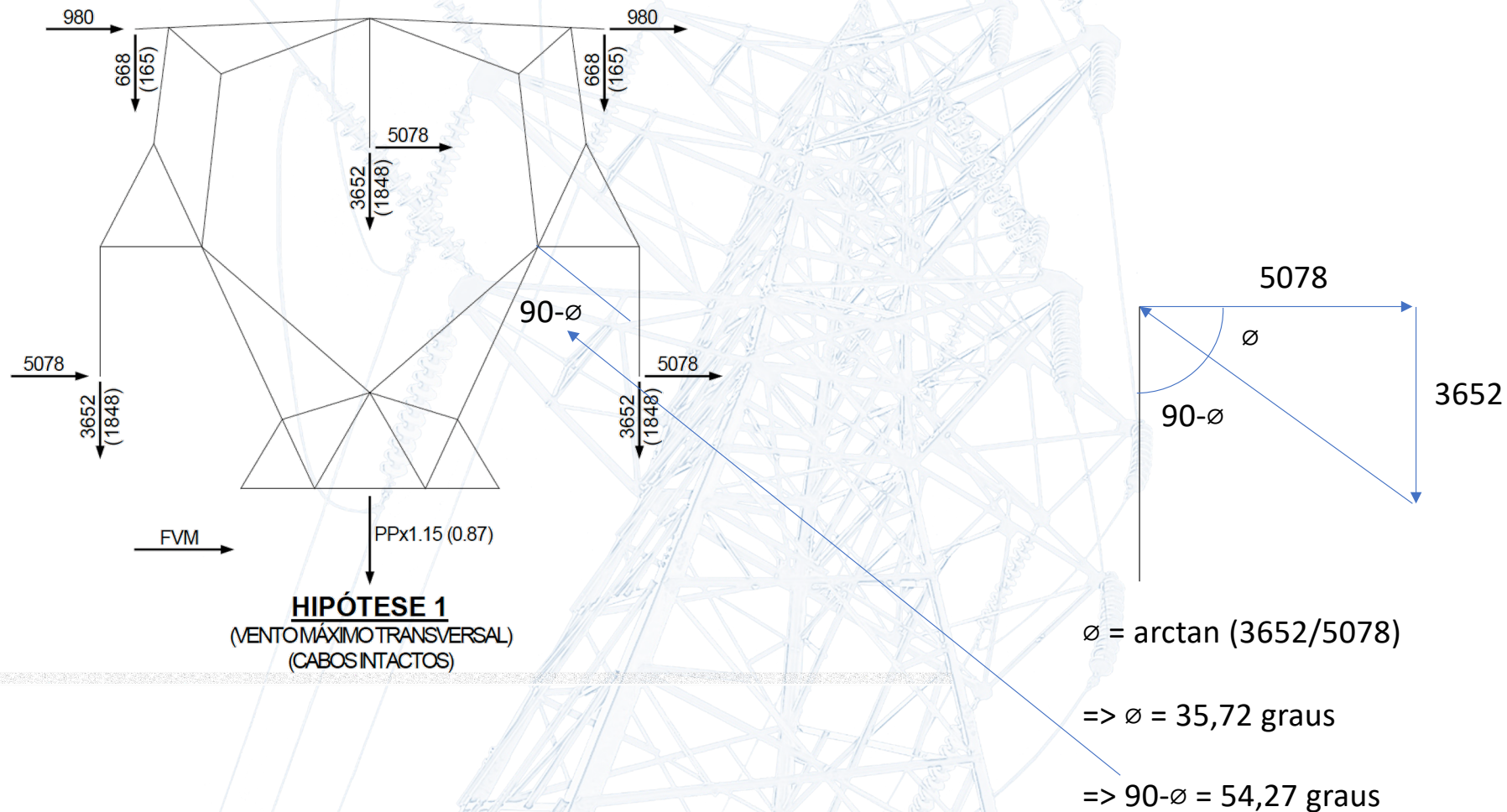
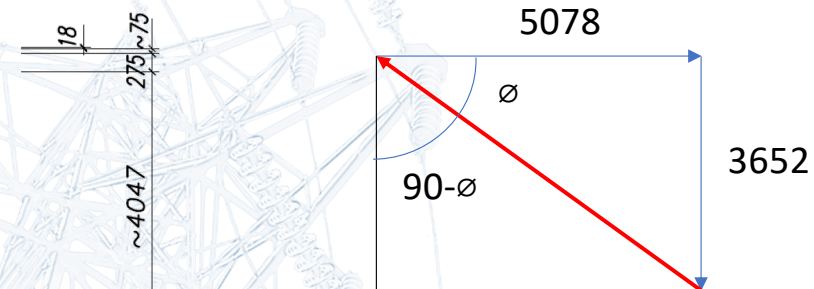
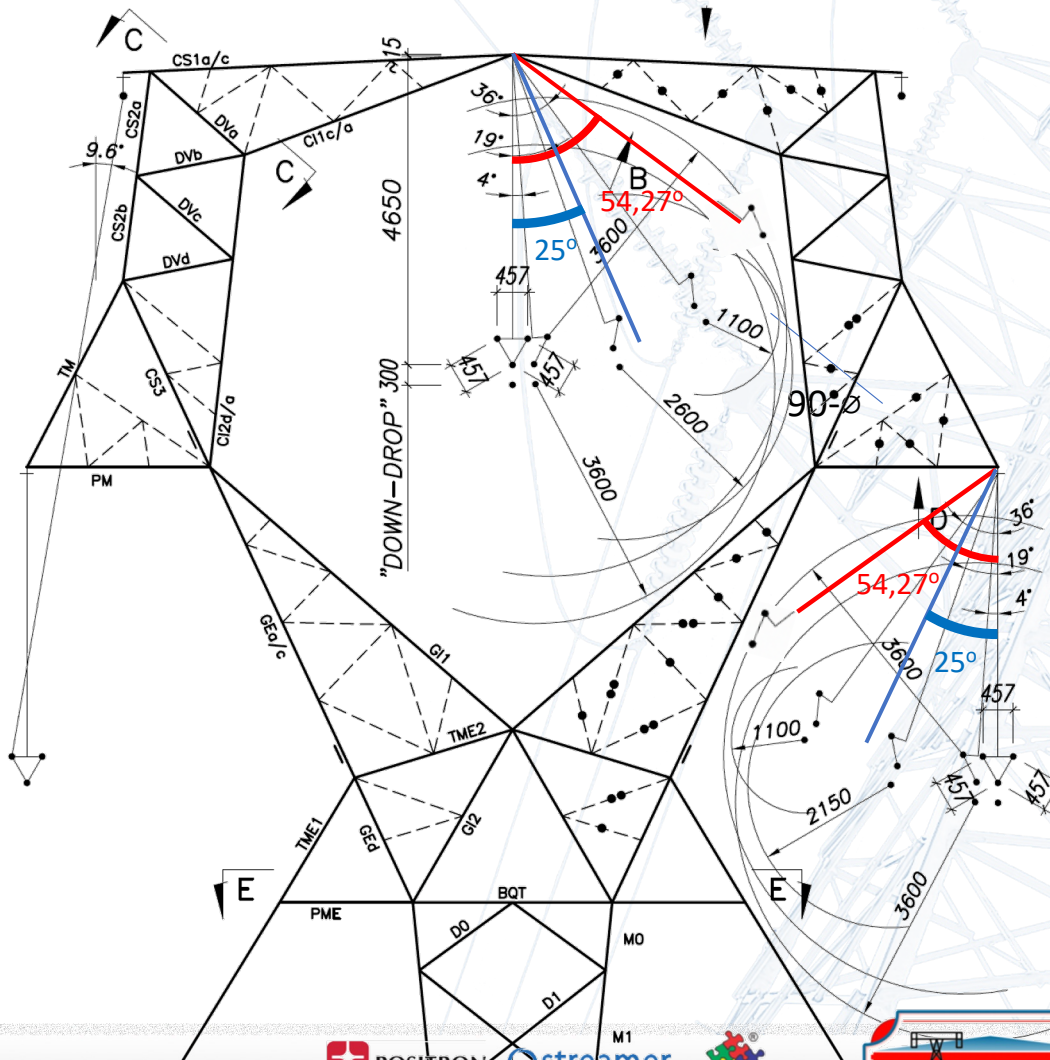


3.2 ÁRVORES DE CARGA





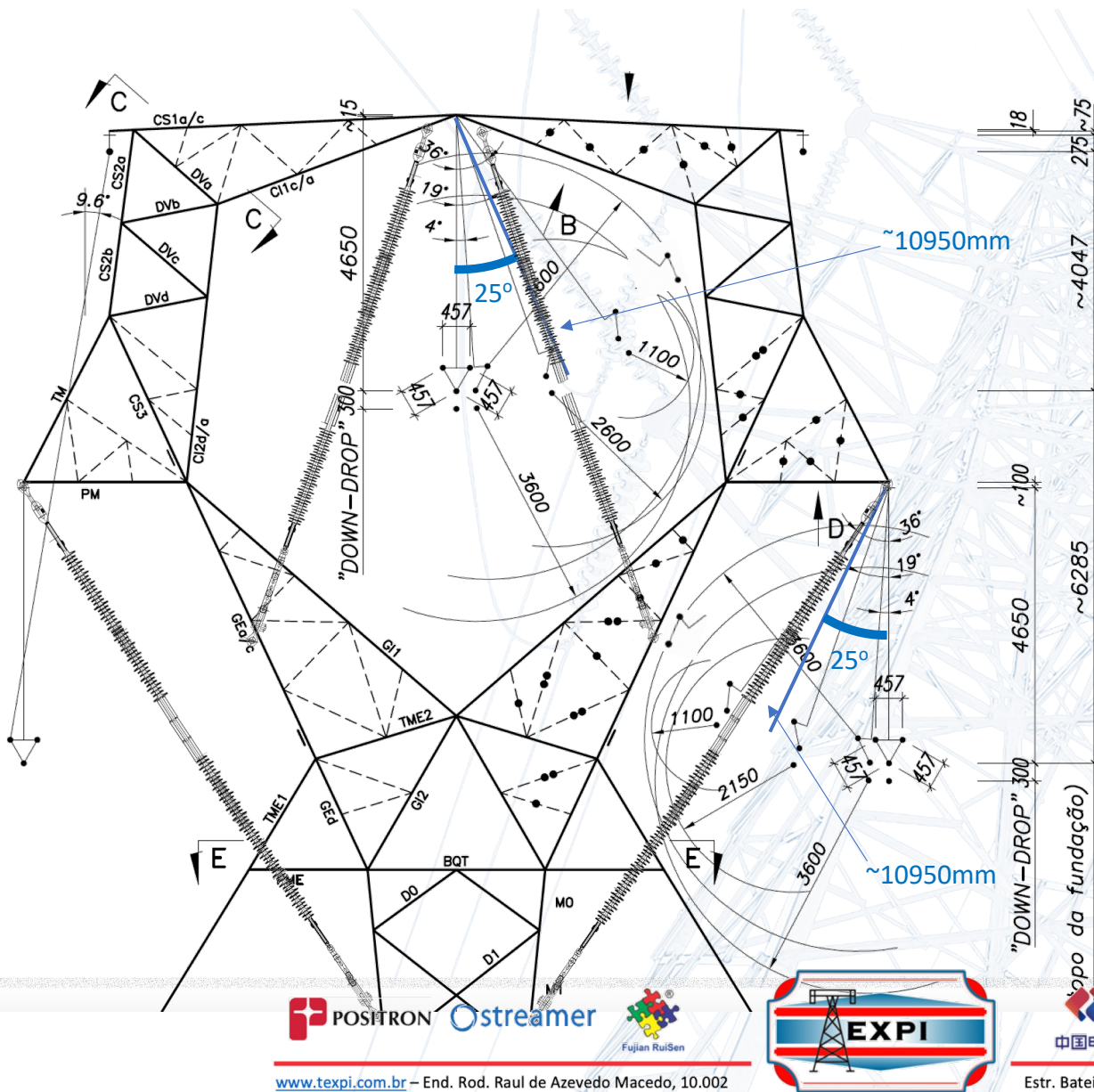
$$\varnothing = \arctan (3652/5078)$$

$$\Rightarrow \varnothing = 35,72 \text{ graus}$$

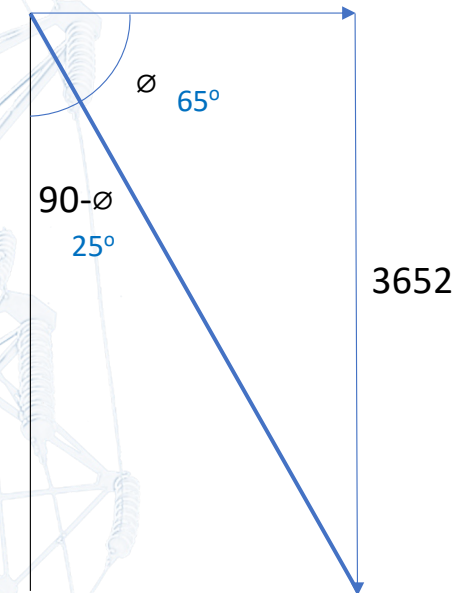
$$\Rightarrow 90-\varnothing = 54,27 \text{ graus (inclinação em relação à vertical)}$$

A inclinação de 54,27 graus para a condição de vento máximo a 90 graus realmente aproxima demais a cadeia da estrutura.

Conforme diagrama ao lado, para obedecermos a distância mínima de 2,00 metros entre fase e terra para 500kV, não podemos deixar a inclinação, ou seja $(90 - \varnothing)$, ser maior que 25 graus.

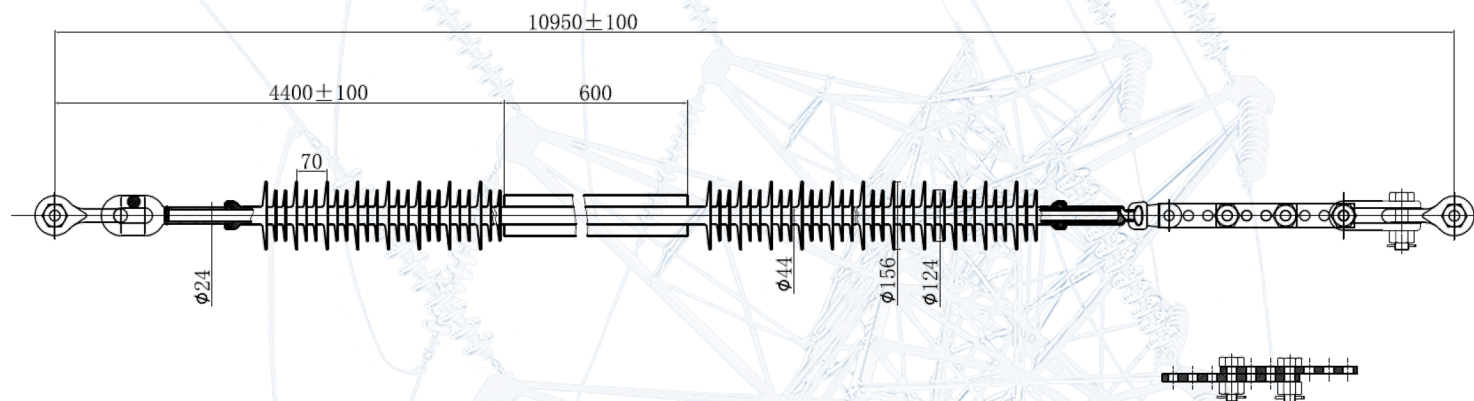


X = 1703 (inclinação)



$$\text{tg } 65^\circ = 2,144 = 3652 / x \Rightarrow x = 1703$$

Ou seja, a inclinação de 25 graus retira 1703kg do esforço lateral máximo para o pior caso de vento a 90 graus, deixando um saldo de $5078 - 1703 = 3375$ a ser contraposto pelo isolador de barreira



Marking:

CYG

SML 100kN
month year

Technical Specifications

- Dry Lighting Impulse withstand $\geq 2050\text{kV}$
- Wet Switching Impulse Withstand $\geq 1240\text{kV}$
- Wet Low-frequency Withstand $\geq 740\text{kV}$

Mechanical data

- The Composite Insulator Specified Tensile Load 100kN

Material Data

- Housing and Sheds:Injection Moulded HTV Silicon Rubber (Grey)
- Core Rod:Glass fiber reinforced&Exopy Resin ECR Rod
- End Fitting:Steel-Hot Dip Gal.

Standard: IEC61109 etc.

Dimensions

- Height (H±P) 10950±100mm
- Length adjustable range ±100mm
- Min Unilateral Creepage Distance 14000mm
- Shed Diameter (D/d/d) 156/124/124mm
- Shed spacing (B) (Between major sheds) 70mm
- Housing Diameter (d1) 34mm
- Core Diameter (d2) 24mm

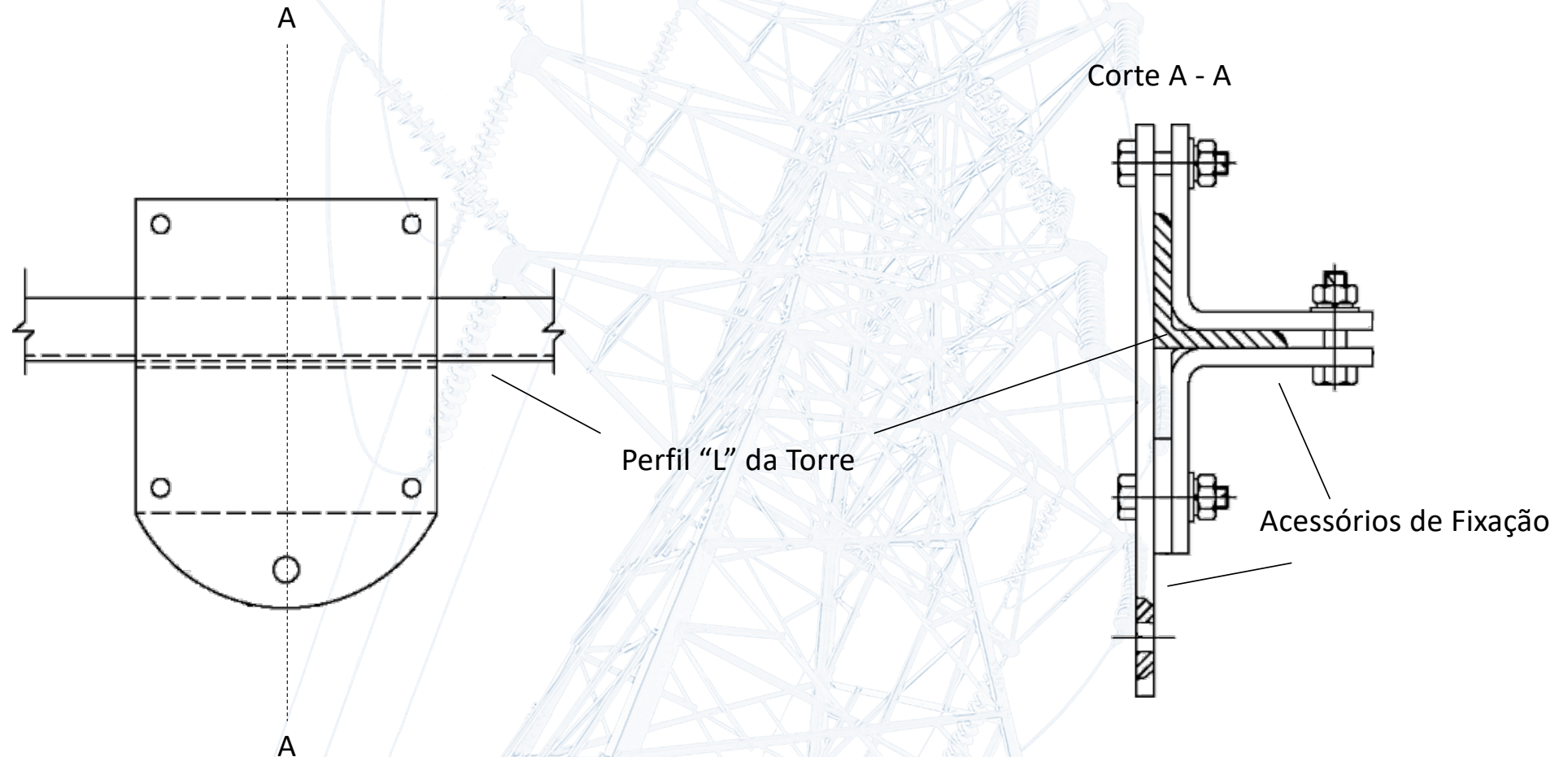
CYG INSULATOR CO., LTD.

Composite Insulator

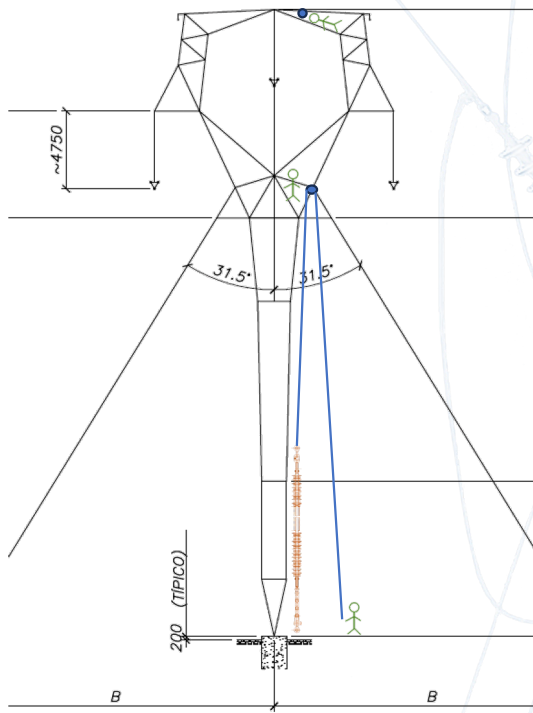
DRN. BY	ZHANG WEIAN	2024. 01. 19	Drawing NO. :	Unit: mm
HE ZIJIAN	2024. 01. 19	Model: RSZGB-500/100-10950-4400	REV: 01	
XU WENRON	2024. 01. 19	Model: RSZGB-500/100-10950-4400	REV: 01	
中国电建	Sichuan Yibin Global Group	Suzhou Porcelain Insulator Works	CYB	SCALE: NTS



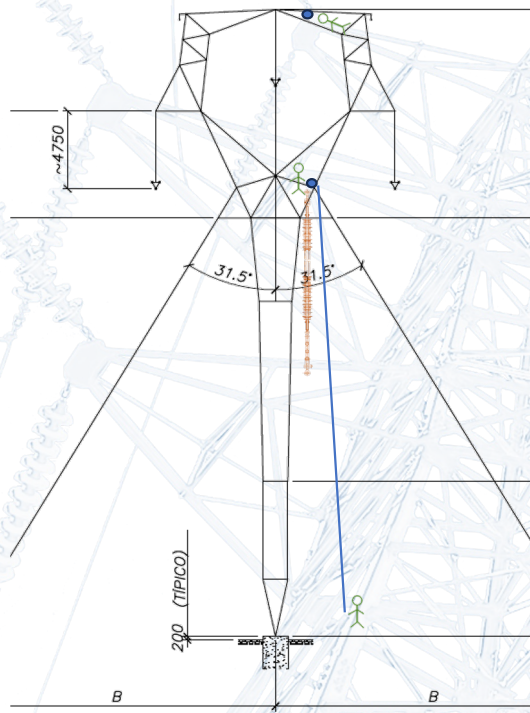
Conjunto de Adaptação em Estrutura Trelaçada



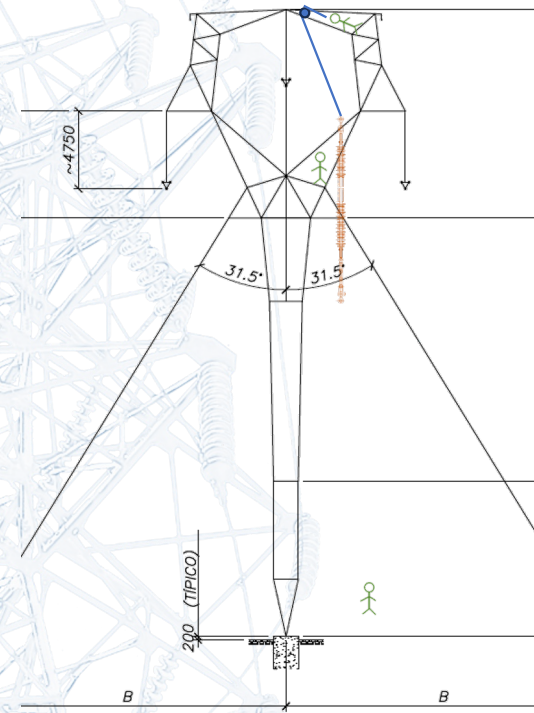
Montagem para fase Central



Passo 1
Preparação e escalada

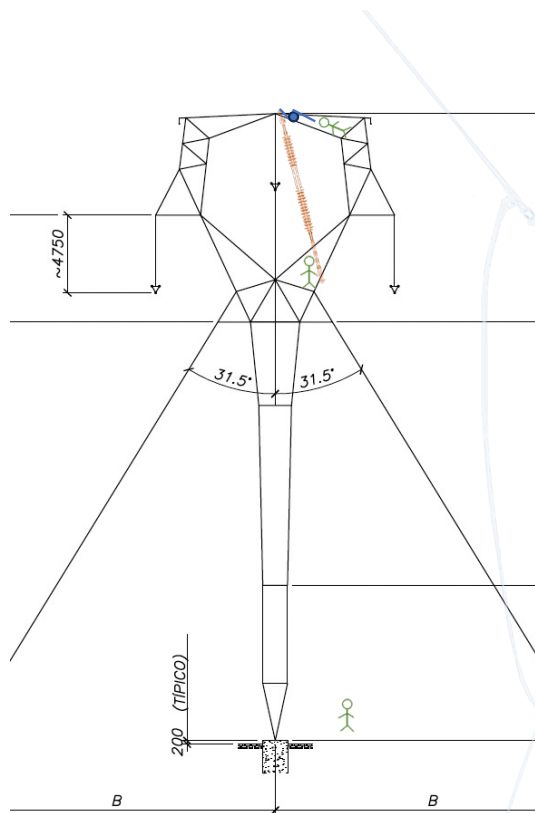


Passo 2
Içamento adjacente



Passo 3
Içamento final com inclinação





Passo 4 Fixação e Regulagem



Ostreamer



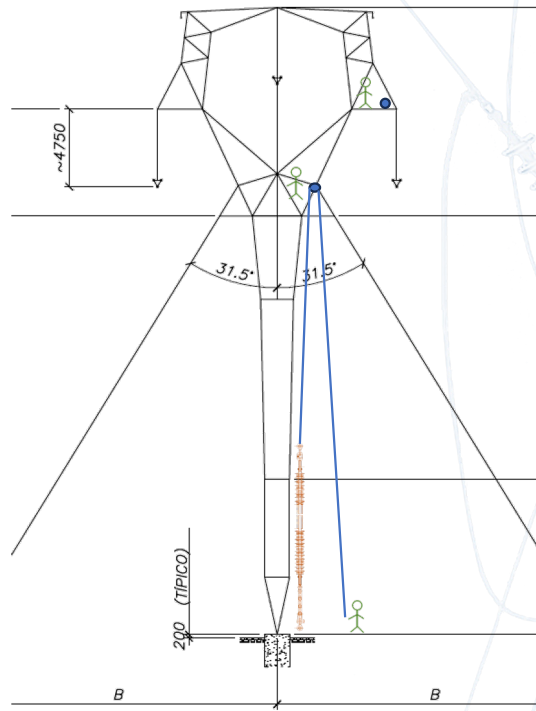
CYG 高能



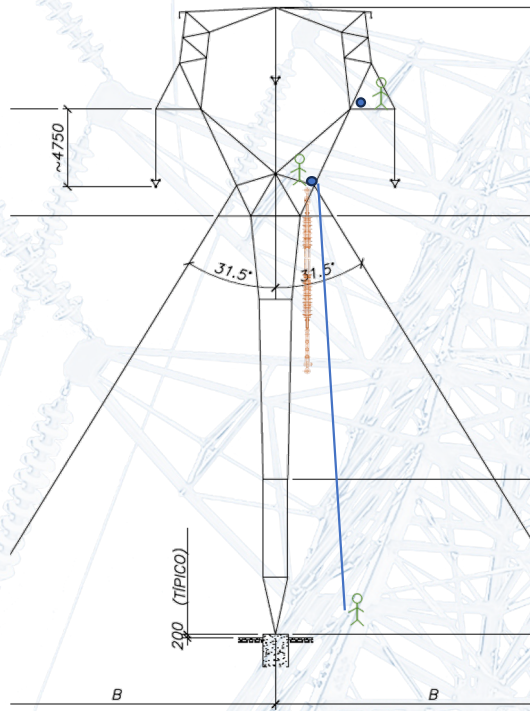
www.texpi.com.br – End. Rod. Raul de Azevedo Macedo, 10.002

Estr. Bateias, Campo Largo, PR, CEP 83648-000, Tel. 41-3393-2122

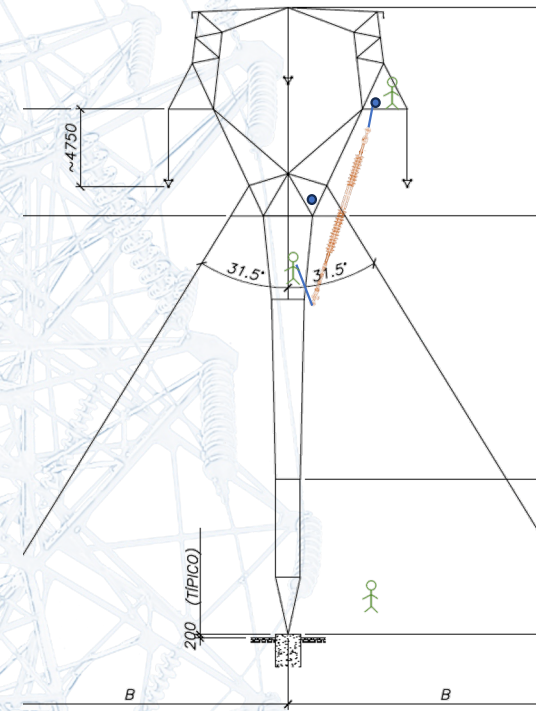
Montagem para fase Lateral



Passo 1
Preparação e escalada

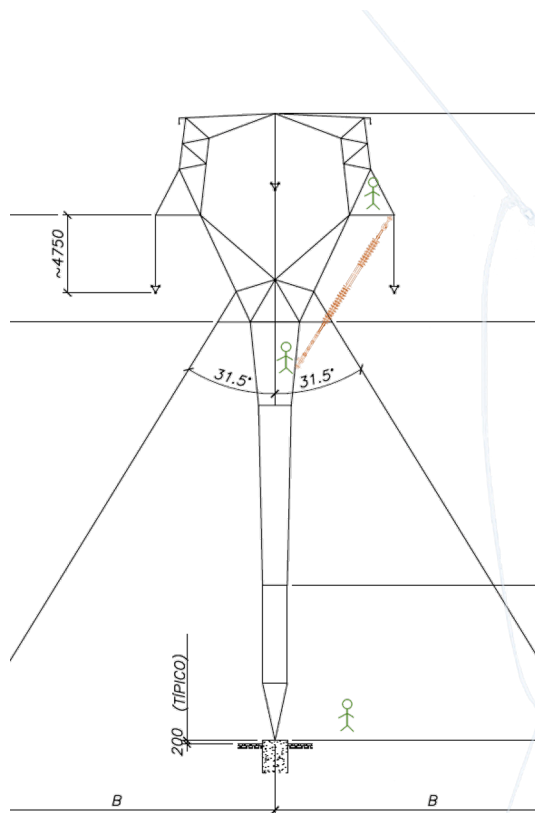


Passo 2
Içamento adjacente



Passo 3
Içamento final com inclinação





Passo 4 Fixação e Regulagem



www.texpi.com.br – End. Rod. Raul de Azevedo Macedo, 10.002

Estr. Bateias, Campo Largo, PR, CEP 83648-000, Tel. 41-3393-2122