

FUTAO METAL

PRODUCT CATALOGUE

2025



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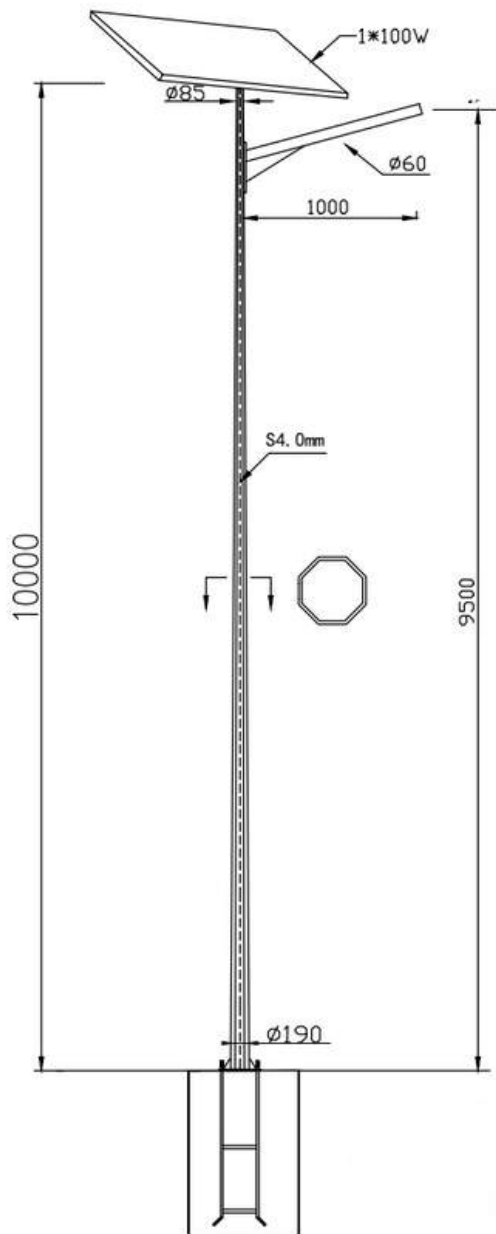
Utility Poles Page 19 – 22

STREET LIGHTING POLES



10M SINGLE ARM OCTAGONAL STREET LIGHTING POLE (WITH SOLAR PANEL)

FT-01



MAIN POLE

HEIGHT : 10M

NUMBER OF SECTIONS : 1

STEEL GRADE : Q235B

POLE SHAFT : OCTAGONAL

INSTALLATION TYPE : FLANGE CONNECTION

NUMBER OF ARMS : 1

ARM LENGTH : 1000MM

ARM DIAMETER : $\phi 60$

POLE THICKNESS : 4MM

TOP DIAMETER : $\phi 85$

BOTTOM DIAMETER : $\phi 190$

WELDING STANDARD : AWS D1.1

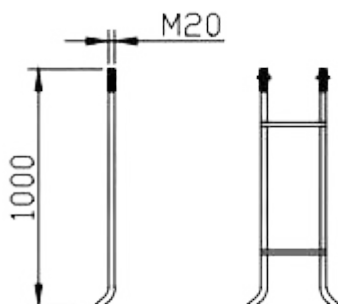
GLAVANIZATION STANDARD : ASTM A123 / EN ISO 1461

ANCHOR BOLTS & ACCESSORIES

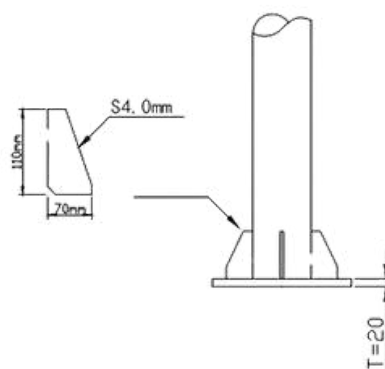
BASEPLATE : 400X400X20MM

STIFFENER : 110X70X4MM

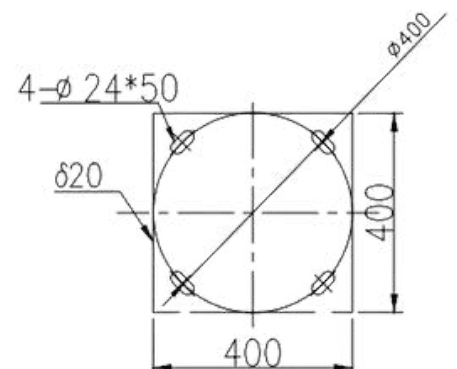
J-BOLT : M20X1000



ANCHOR BOLTS



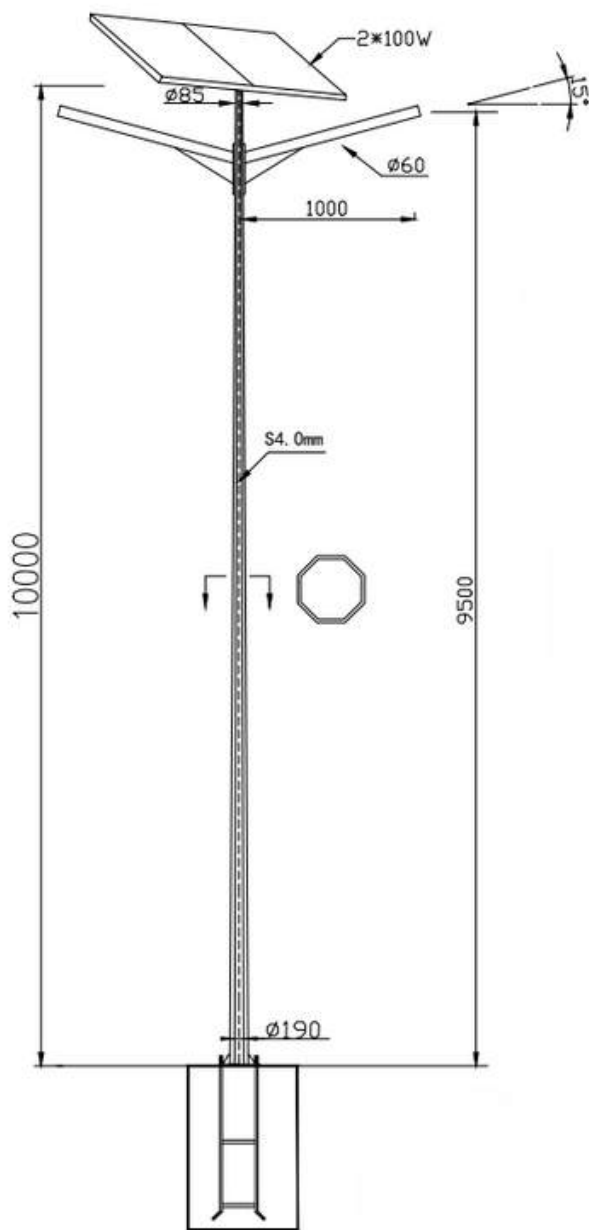
STIFFENER



BASE PLATE

10M DOUBLE ARM OCTAGONAL STREET LIGHTING POLE (WITH SOLAR PANEL)

FT-02



MAIN POLE

HEIGHT : 10M

NUMBER OF SECTIONS : 1

STEEL GRADE : Q235B

POLE SHAFT : OCTAGONAL

INSTALLATION TYPE : FLANGE CONNECTION

NUMBER OF ARMS : 2

ARM LENGTH : 1000MM

ARM DIAMETER : $\phi 60$

POLE THICKNESS : 4MM

TOP DIAMETER : $\phi 85$

BOTTOM DIAMETER : $\phi 190$

WELDING STANDARD : AWS D1.1

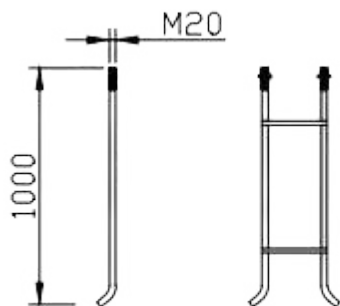
GLAVANIZATION STANDARD : ASTM A123 / EN ISO 1461

ANCHOR BOLTS & ACCESSORIES

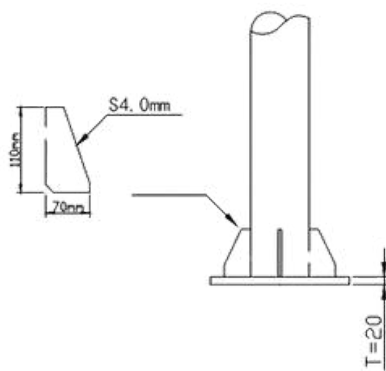
BASEPLATE : 400X400X20MM

STIFFENER : 110X70X4MM

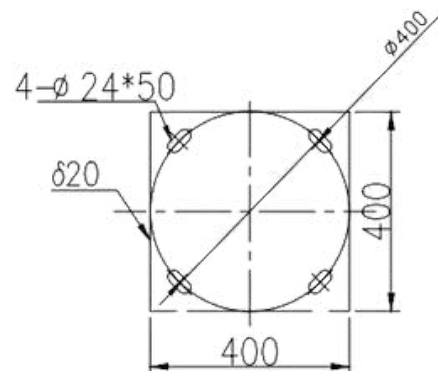
J-BOLT : M20X1000



ANCHOR BOLTS



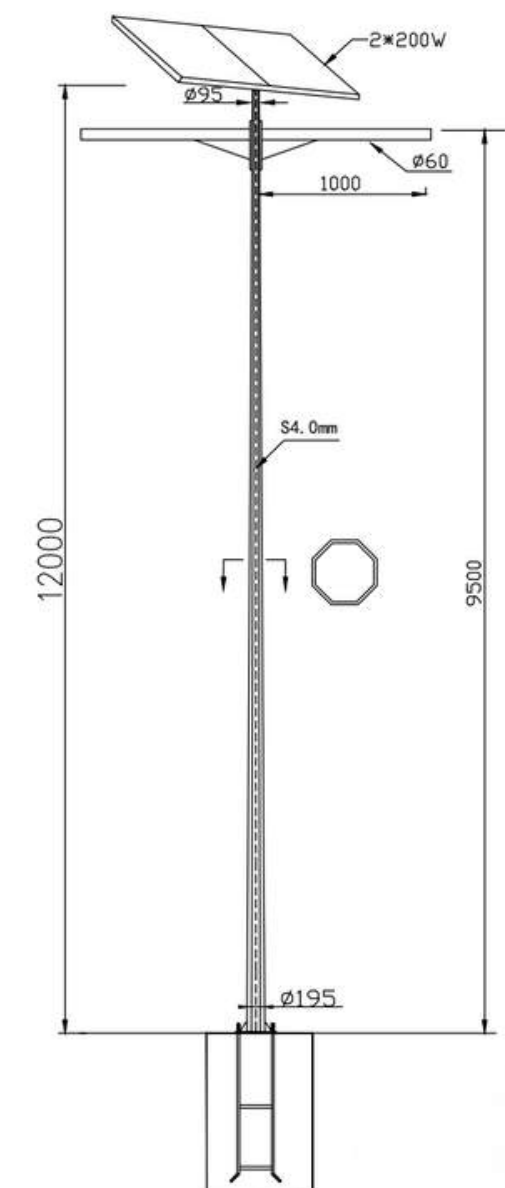
STIFFENER



BASE PLATE

12M DOUBLE ARM OCTAGONAL STREET LIGHTING POLE (WITH SOLAR PANEL)

FT-03



MAIN POLE

HEIGHT : 12M

NUMBER OF SECTIONS : 2

STEEL GRADE : Q235B

POLE SHAFT : OCTAGONAL

INSTALLATION TYPE : FLANGE CONNECTION

NUMBER OF ARMS : 2

ARM LENGTH : 1000MM

ARM DIAMETER : $\varnothing 60$

POLE THICKNESS : 4MM

TOP DIAMETER : $\varnothing 95$

BOTTOM DIAMETER : $\varnothing 195$

WELDING STANDARD : AWS D1.1

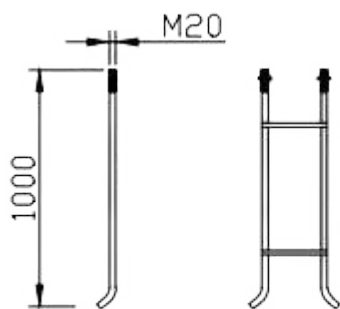
GLAVANIZATION STANDARD : ASTM A123 / EN ISO 1461

ANCHOR BOLTS & ACCESSORIES

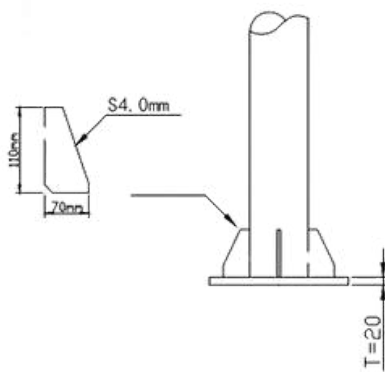
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STIFFENER : 110X70X4MM

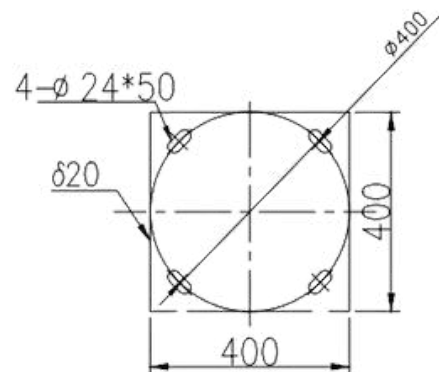
J-BOLT : M20X1000



ANCHOR BOLTS



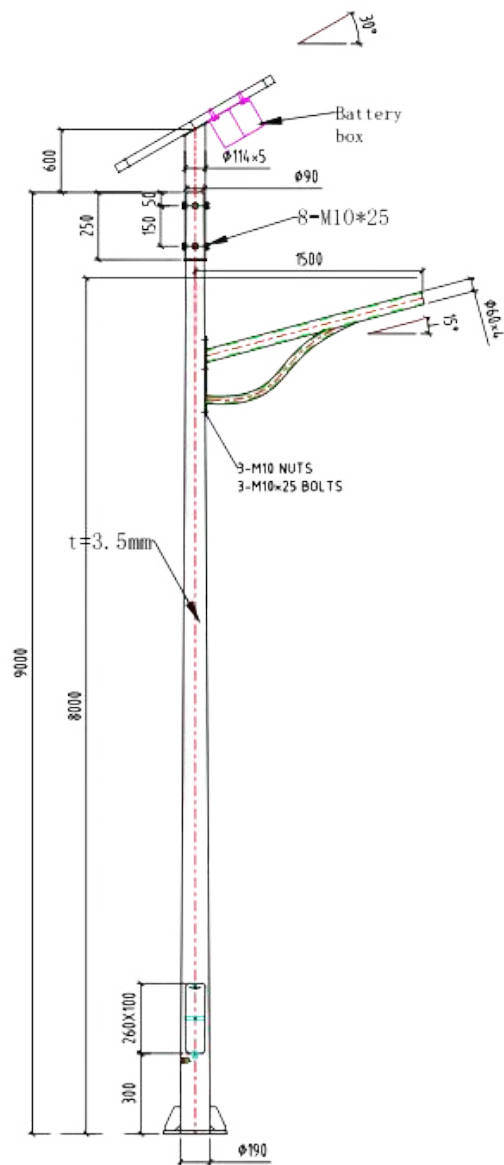
STIFFENER



BASE PLATE

9M SINGLE ARM CONICAL STREET LIGHTING POLE (WITH SOLAR PANEL)

FT-04



MAIN POLE

HEIGHT : 9M

NUMBER OF SECTIONS : 1

STEEL GRADE : Q235B

POLE SHAFT : CONICAL

INSTALLATION TYPE : FLANGE CONNECTION

NUMBER OF ARMS : 1

ARM LENGTH : 1500MM

ARM DIAMETER : Ø 60

POLE THICKNESS : 3.5MM

TOP DIAMETER : Ø 90

BOTTOM DIAMETER : Ø 190

WELDING STANDARD : AWS D1.1

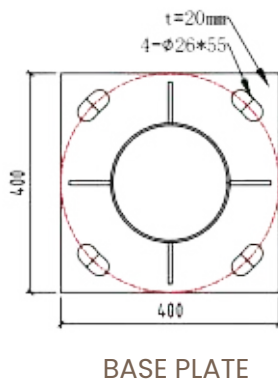
GLAVANIZATION STANDARD : ASTM A123 / EN ISO 1461

ANCHOR BOLTS & ACCESSORIES

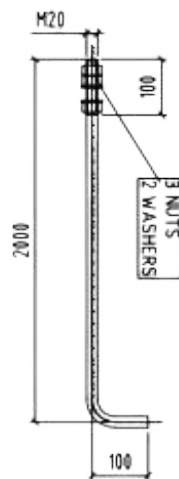
BASEPLATE : 400X400X20MM

STIFFENER : 100X50X5MM

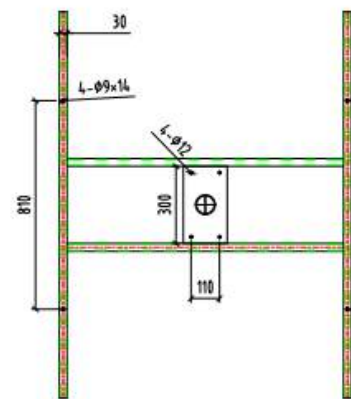
J-BOLT : M20X2000



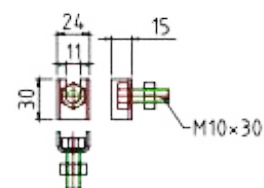
BASE PLATE



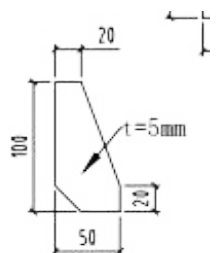
ANCHOR BOLTS



SOLAR PANEL BRACKET



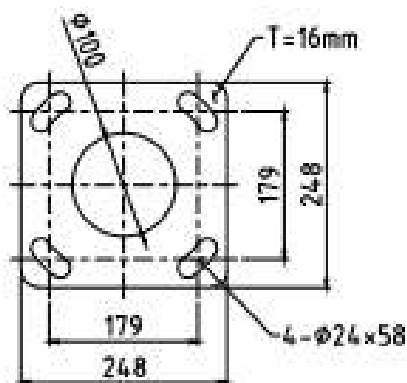
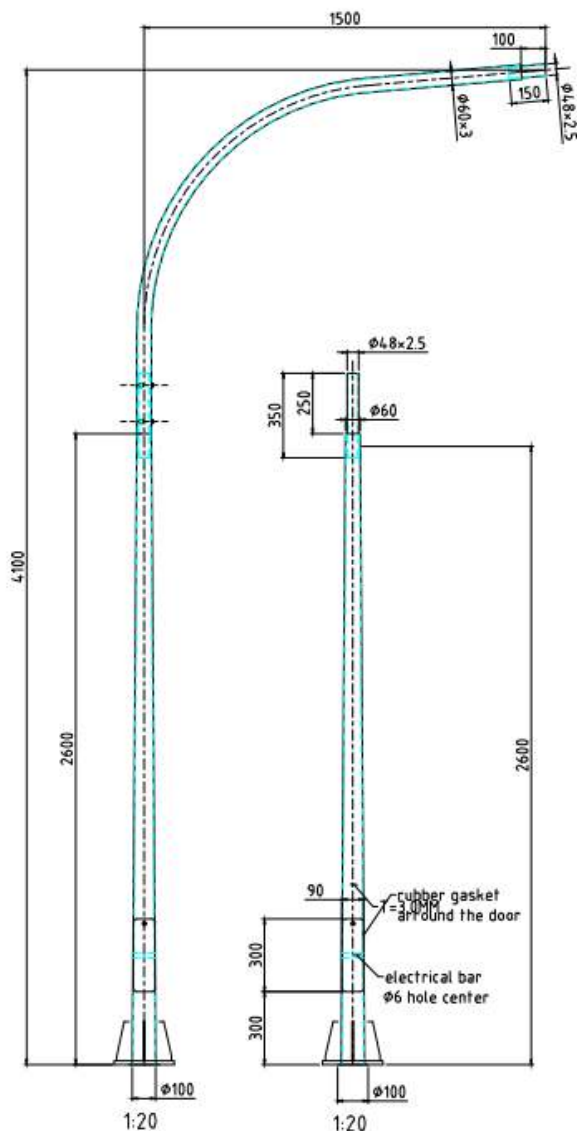
EARTHING LUG & BOLTS



STIFFENER

4M SINGLE BENT ARM STREET LIGHTING POLE

FT-05



BASE PLATE

MAIN POLE

HEIGHT : 4M

NUMBER OF SECTIONS : 2 (Pole Shaft + Arm Bracket)

STEEL GRADE : Q235B

POLE SHAFT : CONICAL

INSTALLATION TYPE : FLANGE CONNECTION

NUMBER OF ARMS :1

ARM LENGTH : 1500MM

ARM DIAMETER : Ø 60

POLE THICKNESS : 3MM

TOP DIAMETER : Ø 90

BOTTOM DIAMETER : Ø 100

WELDING STANDARD : AWS D1.1

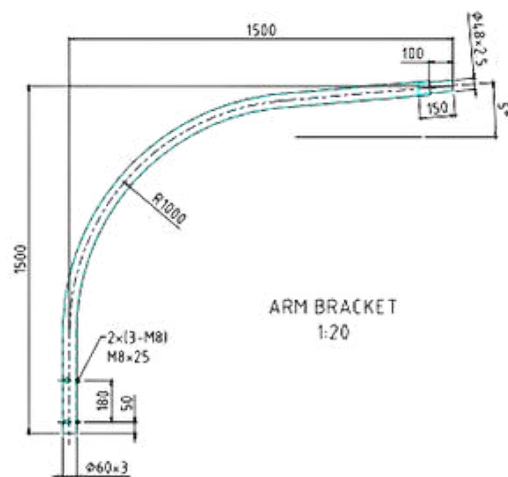
GLAVANIZATION STANDARD : ASTM A123 / EN ISO 1461

ANCHOR BOLTS & ACCESSORIES

BASEPLATE : 248X248X16MM

STIFFENER : 100X50X5MM

J-BOLT : M18X600



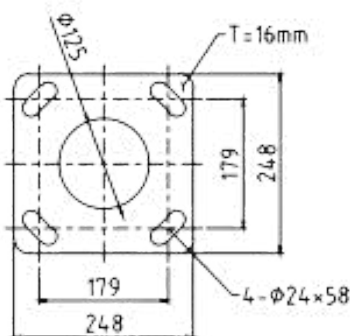
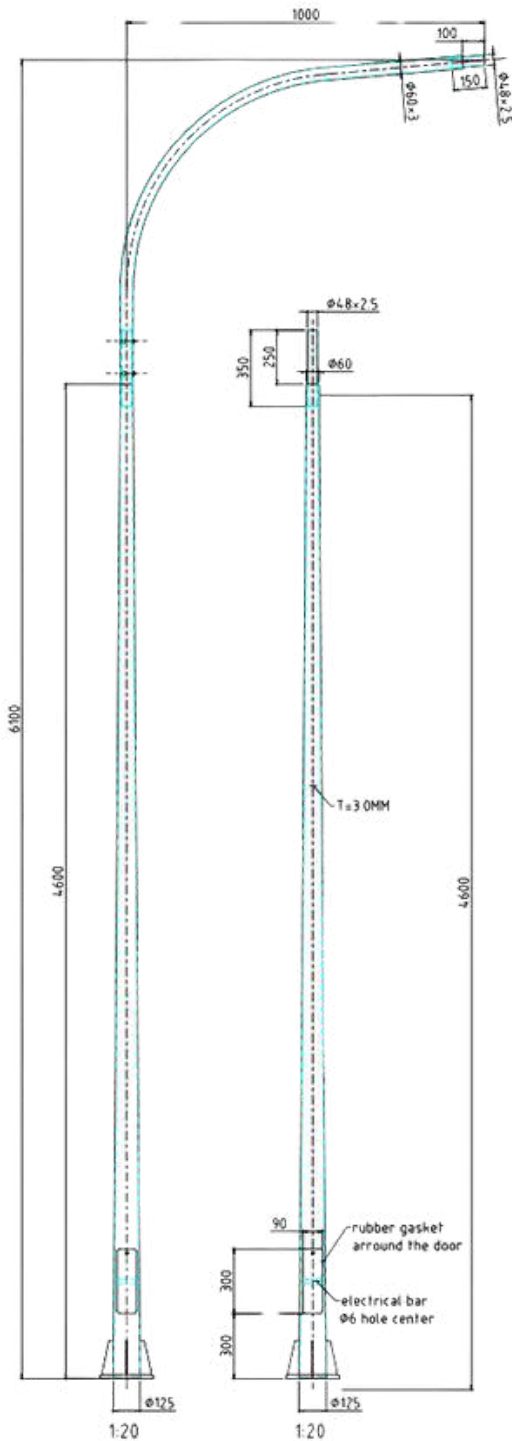
ARM BRACKET



ANCHOR BOLTS

6M SINGLE BENT ARM STREET LIGHTING POLE

FT-06



BASE PLATE

MAIN POLE

HEIGHT : 6M

NUMBER OF SECTIONS : 2 (Pole Shaft + Arm Bracket)

STEEL GRADE : Q235B

POLE SHAFT : CONICAL

INSTALLATION TYPE : FLANGE CONNECTION

NUMBER OF ARMS : 1

ARM LENGTH : 1000MM

ARM DIAMETER : $\phi 60$

POLE THICKNESS : 3MM

TOP DIAMETER : $\phi 60$

BOTTOM DIAMETER : $\phi 125$

WELDING STANDARD : AWS D1.1

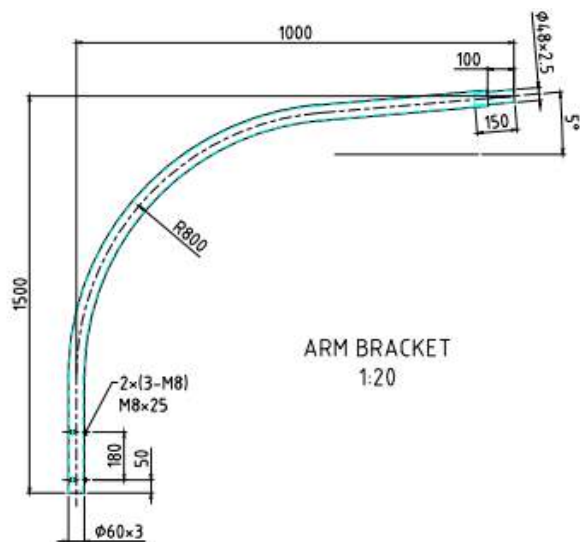
GLAVANIZATION STANDARD : ASTM A123 / EN ISO 1461

ANCHOR BOLTS & ACCESSORIES

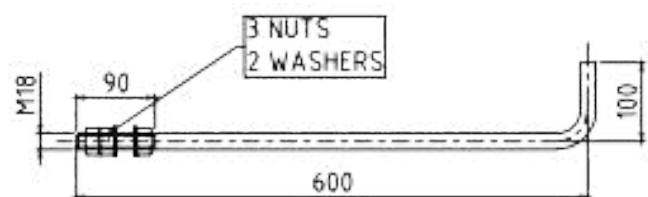
BASEPLATE : 248X248X16MM

STIFFENER : 100X50X5MM

J-BOLT : M18X600



ARM BRACKET



ANCHOR BOLTS

FT-07



NUMBER OF SECTIONS : 2 (Pole Shaft + Arm Bracket)

POLE SHAFT : CONICAL

NUMBER OF ARMS : 1

ARM LENGTH : 1500MM

ARM DIAMETER : Ø 75

POLE THICKNESS : 6MM

TOP DIAMETER : Ø 90

BOTTOM DIAMETER : Ø 180

WELDING STANDARD : AWS D1.1

GLAVANIZATION STANDARD : ASTM A123 / EN ISO 1461

BASEPLATE : 400X400X20MM

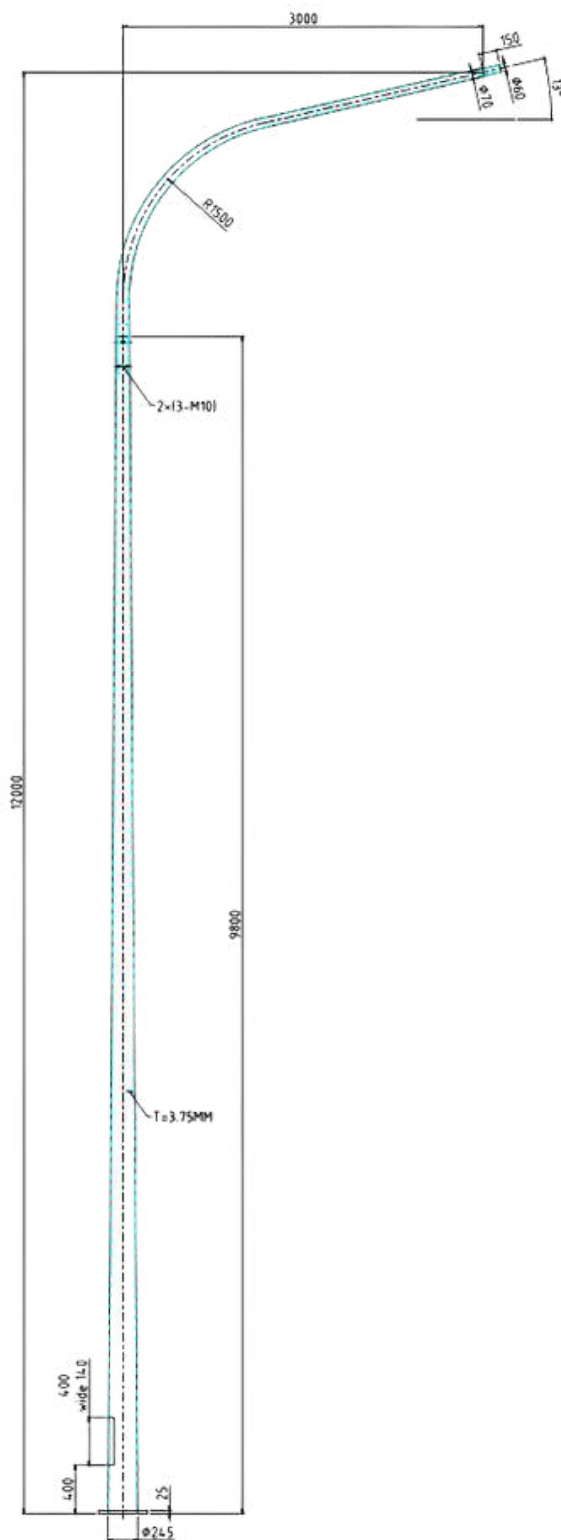
STIFFENER : 100X50X5MM

J-BOLT : M24X900



12M SINGLE BENT ARM STREET LIGHTING POLE

FT-08



MAIN POLE

HEIGHT : 8M

NUMBER OF SECTIONS : 2 (Pole Shaft + Arm Bracket)

STEEL GRADE : Q235B

POLE SHAFT : CONICAL

INSTALLATION TYPE : FLANGE CONNECTION

NUMBER OF ARMS : 1

ARM LENGTH : 1500MM

ARM DIAMETER : Ø 75

POLE THICKNESS : 6MM

TOP DIAMETER : Ø 90

BOTTOM DIAMETER : Ø 180

WELDING STANDARD : AWS D1.1

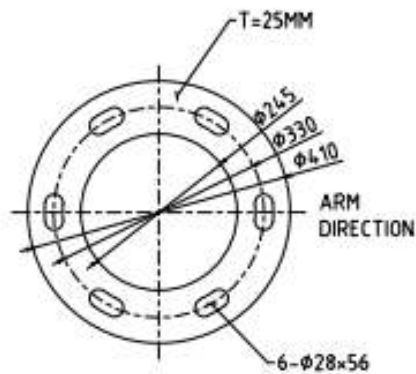
GLAVANIZATION STANDARD : ASTM A123 / EN ISO 1461

ANCHOR BOLTS & ACCESSORIES

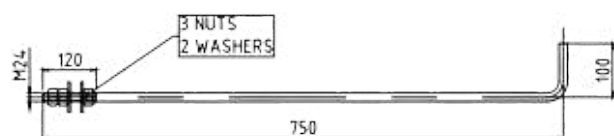
BASEPLATE : 400X400X20MM

STIFFENER : 100X50X5MM

J-BOLT : M24X900



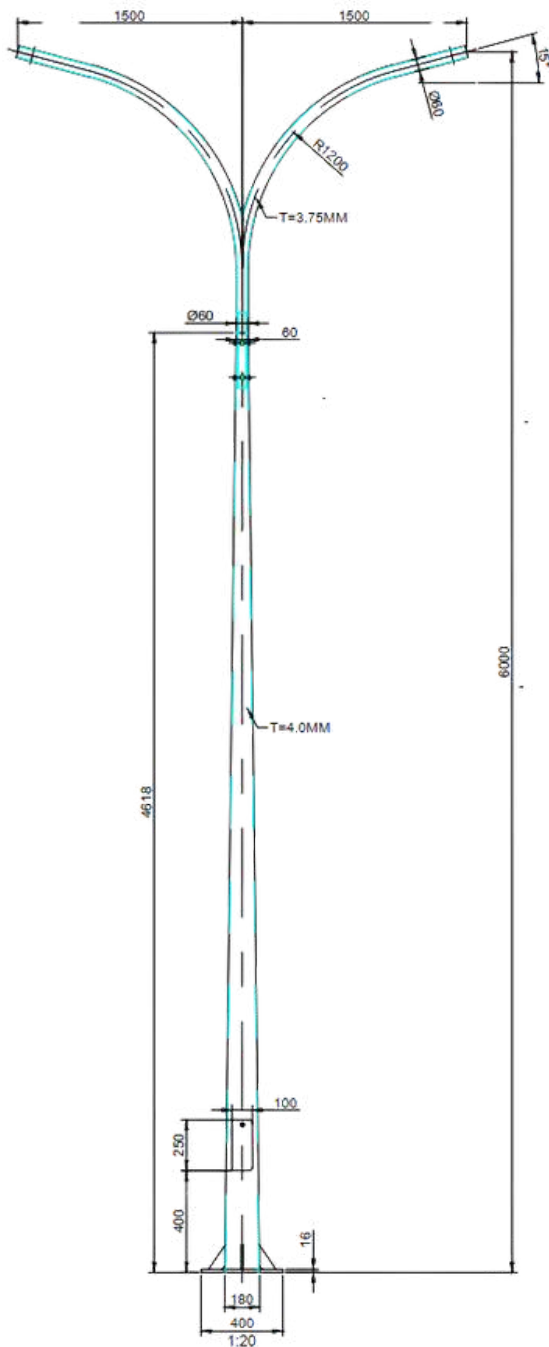
BASE PLATE



ANCHOR BOLTS

6M DOUBLE ARM STREET LIGHTING POLE

FT-09



MAIN POLE

HEIGHT : 6M

NUMBER OF SECTIONS : 2 (Pole Shaft + Arm Bracket)

STEEL GRADE : Q235B

POLE SHAFT : CONICAL

INSTALLATION TYPE : FLANGE CONNECTION

NUMBER OF ARMS : 2

ARM LENGTH : 1500MM EACH

ARM DIAMETER : $\varnothing 60$

POLE THICKNESS : 4MM

TOP DIAMETER : $\varnothing 60$

BOTTOM DIAMETER : $\varnothing 180$

WELDING STANDARD : AWS D1.1

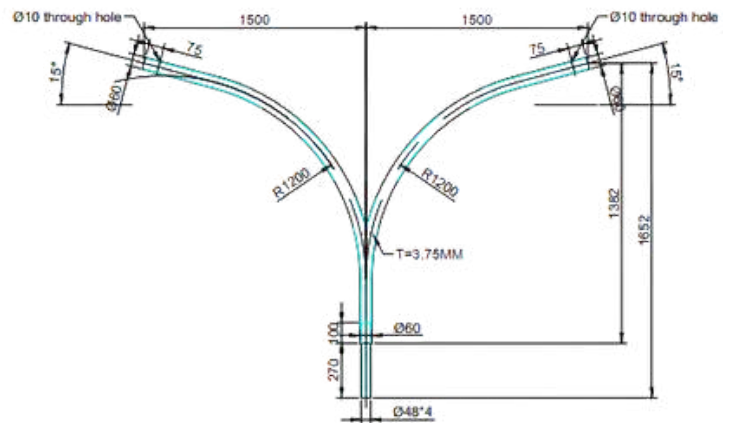
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ANCHOR BOLTS & ACCESSORIES

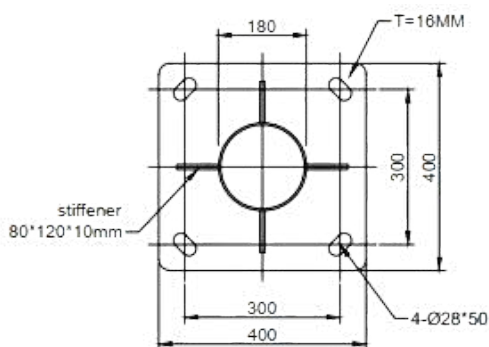
BASEPLATE : 400X400X16MM

STIFFENER : 80X120X10MM

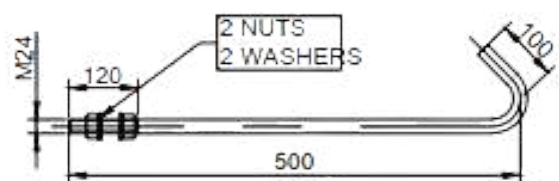
J-BOLT : M24X500



ARM BRACKET



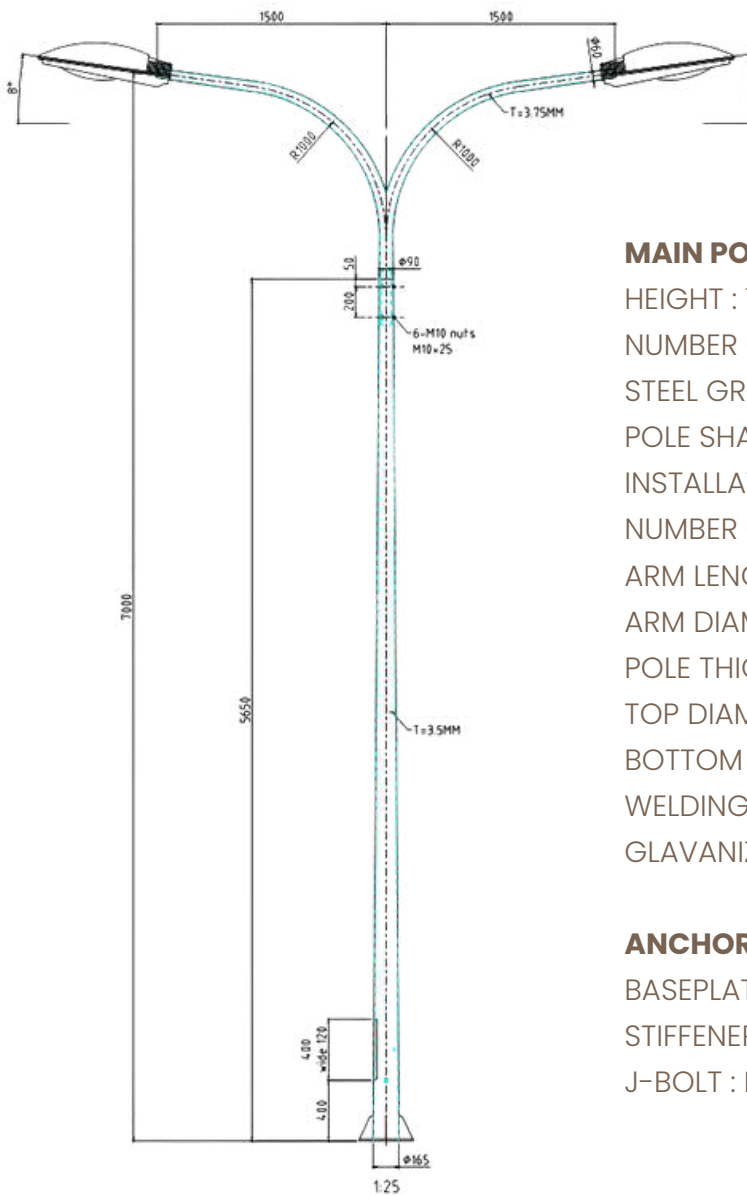
BASE PLATE



ANCHOR BOLTS

7M DOUBLE ARM STREET LIGHTING POLE

FT-10



MAIN POLE

HEIGHT : 7M

NUMBER OF SECTIONS : 2 (Pole Shaft + Arm Bracket)

STEEL GRADE : Q235B

POLE SHAFT : CONICAL

INSTALLATION TYPE : FLANGE CONNECTION

NUMBER OF ARMS : 2

ARM LENGTH : 1500MM EACH

ARM DIAMETER : $\varnothing 60$

POLE THICKNESS : 3.5MM

TOP DIAMETER : $\varnothing 90$

BOTTOM DIAMETER : $\varnothing 165$

WELDING STANDARD : AWS D1.1

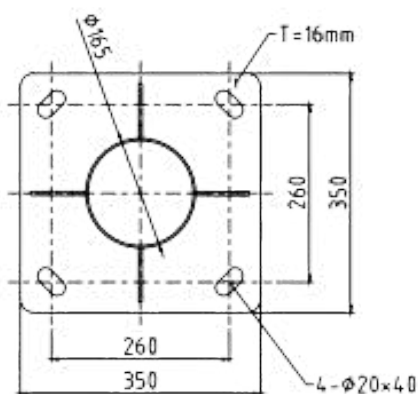
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ANCHOR BOLTS & ACCESSORIES

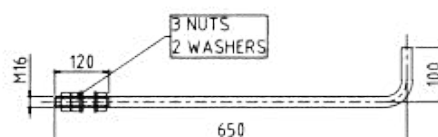
BASEPLATE : 350X350X16MM

STIFFENER : 150X80X6MM

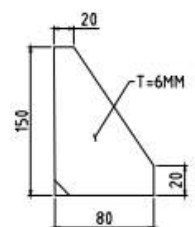
J-BOLT : M16X650



BASE PLATE



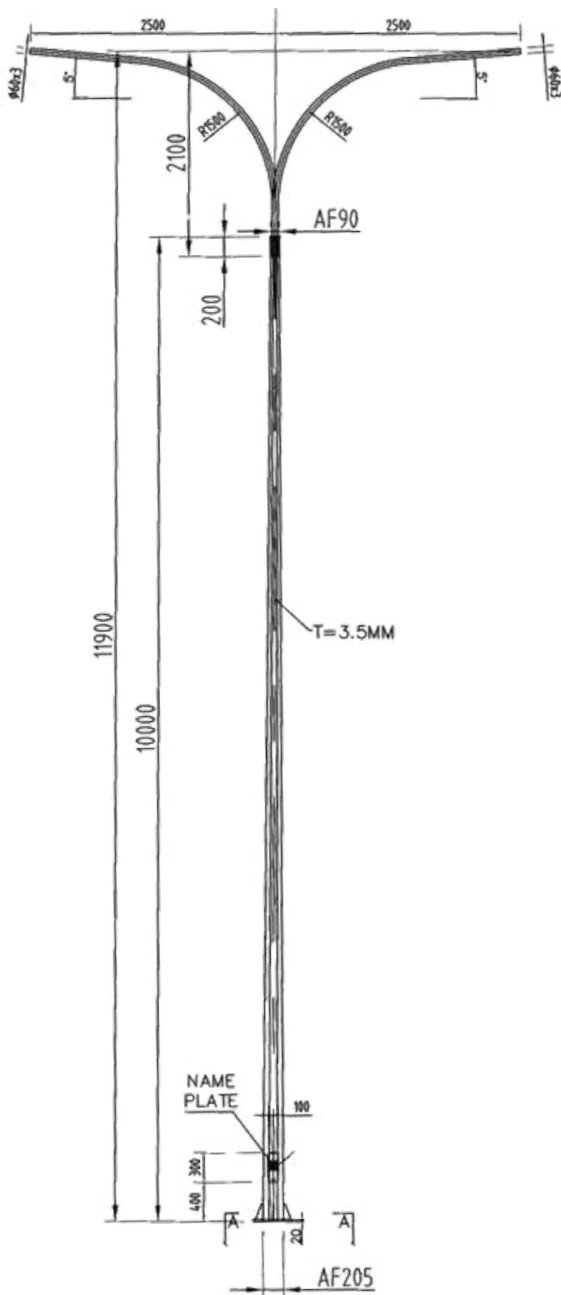
ANCHOR BOLTS



STIFFENER

12M DOUBLE ARM STREET LIGHTING POLE

FT-11



MAIN POLE

HEIGHT : 12M

NUMBER OF SECTIONS : 2 (Pole Shaft + Arm Bracket)

STEEL GRADE : Q235B

POLE SHAFT : OCTAGONAL

INSTALLATION TYPE : FLANGE CONNECTION

NUMBER OF ARMS : 2

ARM LENGTH : 2500MM EACH

ARM DIAMETER : $\varnothing 60$

POLE THICKNESS : 3.5MM

TOP DIAMETER : $\varnothing 90$

BOTTOM DIAMETER : $\varnothing 205$

WELDING STANDARD : AWS D1.1

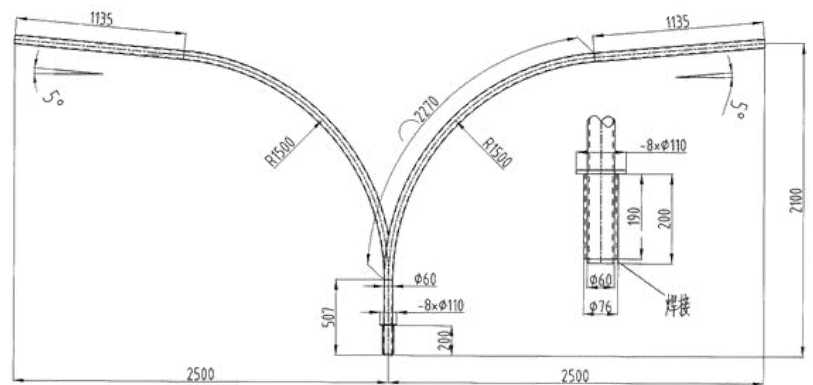
GLAVANIZATION STANDARD : ASTM A123 / EN ISO 1461

ANCHOR BOLTS & ACCESSORIES

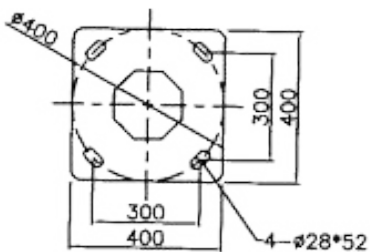
BASEPLATE : 400X400X20MM

STIFFENER : 160X70X6MM

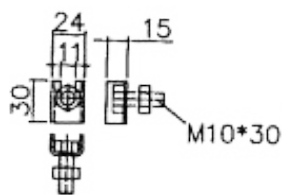
J-BOLT : M24X900



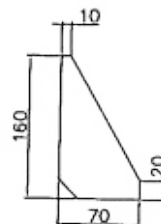
ARM BRACKET



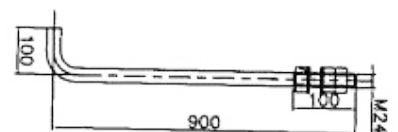
BASE PLATE



EARTHING LUG
& BOLT



STIFFENER



ANCHOR BOLT

FT-12

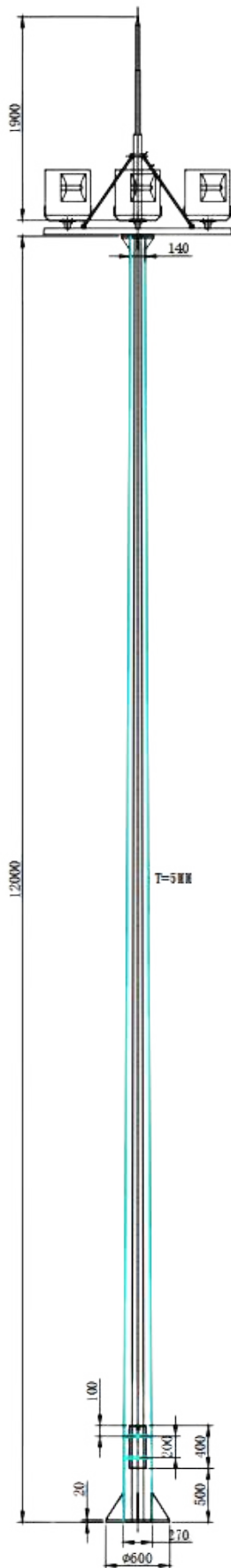


HIGH MAST LIGHTING POLES



12M HIGH MAST LIGHTING POLE (6 LAMPS)

HM -01



MAIN POLE

HEIGHT : 12M(MAIN POLE) + 1.9M (LIGHTNING ARRESTER)

NUMBER OF SECTIONS : 1

STEEL GRADE : Q235A

POLE SHAFT : OCTAGONAL

INSTALLATION TYPE : FLANGE CONNECTION

LIGHTING CONFIGURATION : 6 LAMPS (FRONT FACING)

POLE THICKNESS : 5MM

TOP DIAMETER : $\varnothing 140$

BOTTOM DIAMETER : $\varnothing 270$

WELDING STANDARD : AWS D1.1

GLAVANIZATION STANDARD : ASTM A123 / EN ISO 1461

ANCHOR BOLTS & ACCESSORIES

BOTTOM BASEPLATE : $\varnothing 140 \times 20\text{MM}$

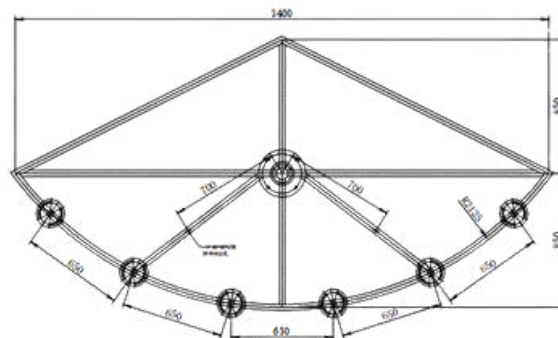
STIFFENER : 120X70X6MM

J-BOLT : M24X1200

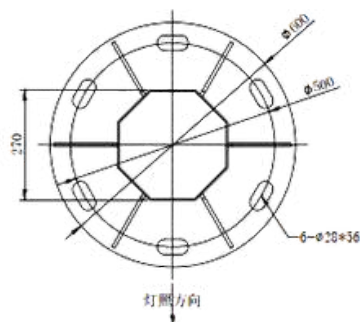
TOP FLANGE : $\varnothing 300 \times 16\text{MM}$

LIGHTNING ARRESTER LENGTH : 1900MM

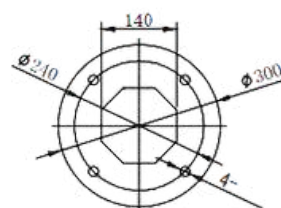
LIGHTNING ARRESTER FLANGE : $\varnothing 150 \times 10\text{MM}$



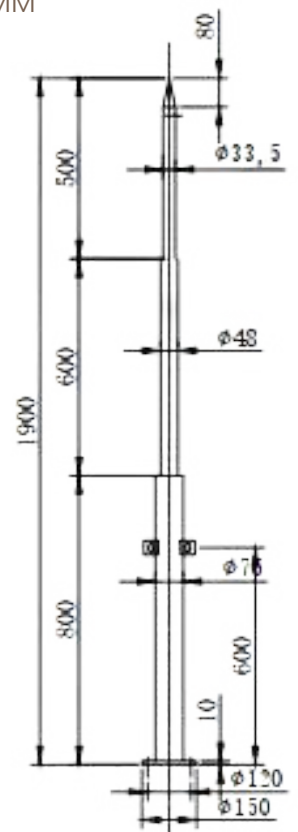
6 LAMP
BRACKET



BOTTOM FLANGE



TOP FLANGE



LIGHTNING
ARRESTER

16M HIGH MAST LIGHTING POLE (8 LAMPS)

HM -02

MAIN POLE

HEIGHT : 16M (MAIN POLE)

NUMBER OF SECTIONS : 2 (8280MM EACH SECTION)

STEEL GRADE : Q355B

POLE SHAFT : DODECAGONAL (12 SIDED)

INSTALLATION TYPE : FLANGE CONNECTION

LIGHTING CONFIGURATION : 8 LAMPS (CIRCULAR)

POLE THICKNESS : 5MM & 6MM

TOP DIAMETER : Ø 220

BOTTOM DIAMETER : Ø 500

WELDING STANDARD : AWS D1.1

GLAVANIZATION STANDARD : ASTM A123 / EN ISO 1461

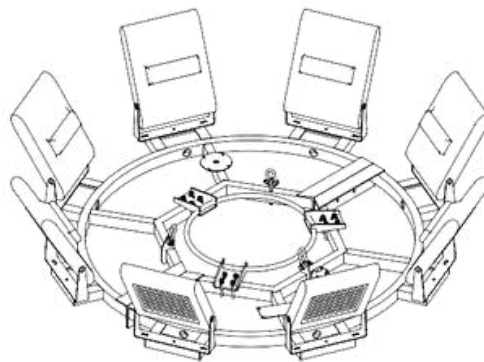
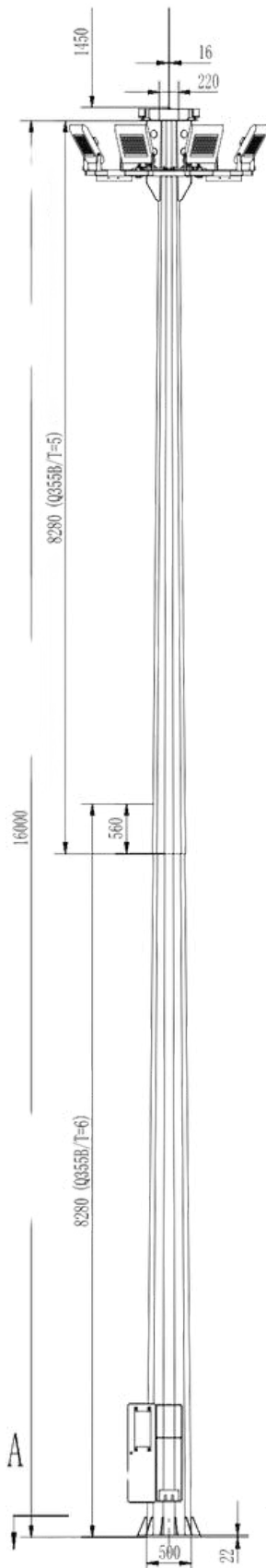
ANCHOR BOLTS & ACCESSORIES

BOTTOM BASEPLATE : Ø 720 x 20MM

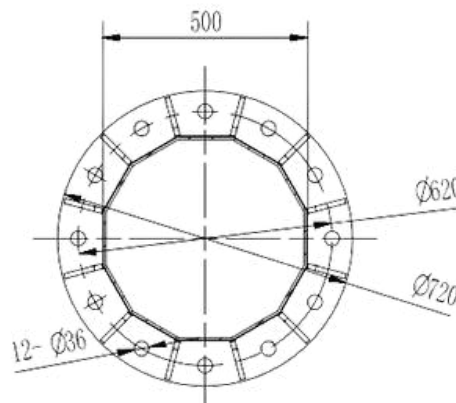
STIFFENER : 120X70X6MM

J-BOLT : M24X1200

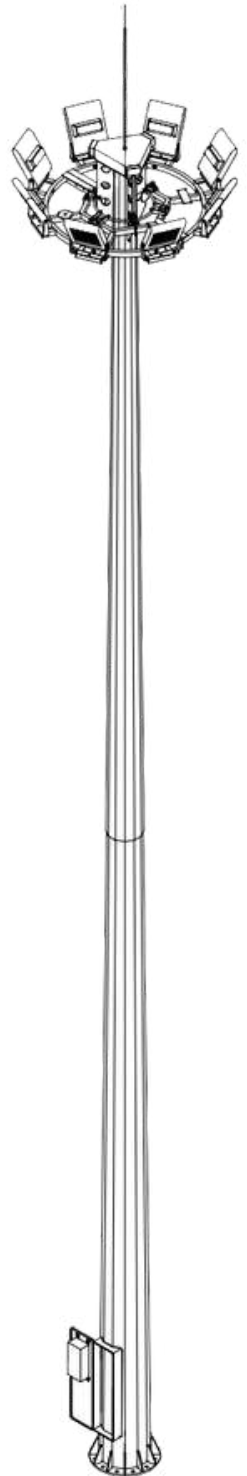
LIGHTNING ARRESTER LENGTH : 1450MM X 16MM



**8 LAMP
BRACKET**



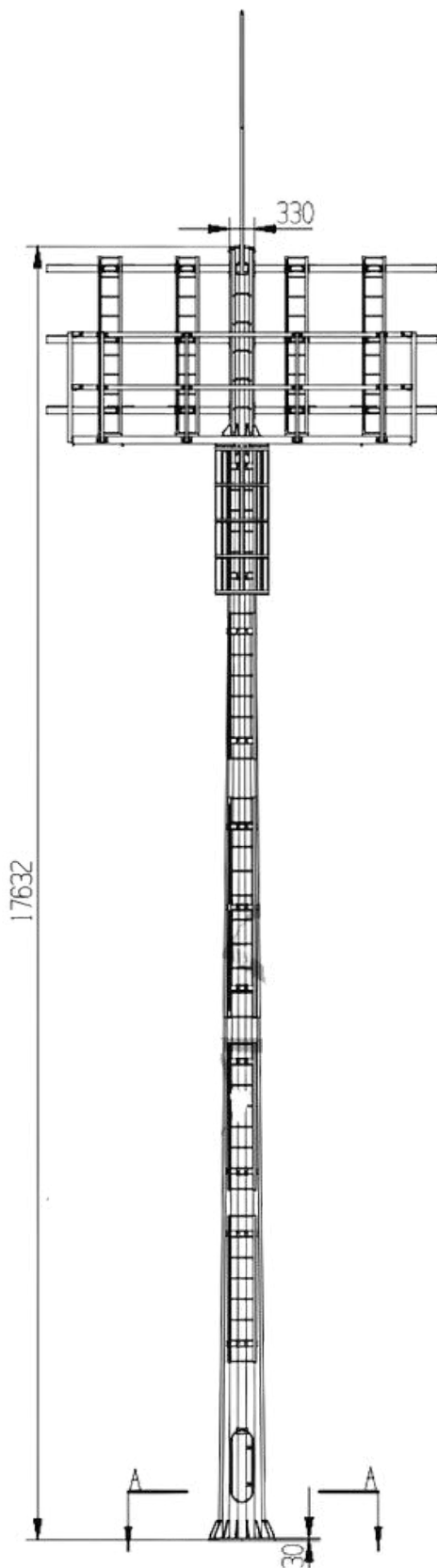
BOTTOM FLANGE



SIDE VIEW

18M HIGH MAST LIGHTING POLE (20 LAMPS)

HM -03



FRONT VIEW

MAIN POLE

HEIGHT : 17.63M(MAIN POLE) + 0.37M (LIGHTNING ARRESTER)

NUMBER OF SECTIONS : 2

STEEL GRADE : Q235B

POLE SHAFT : DODECAGONAL

INSTALLATION TYPE : FLANGE CONNECTION

LIGHTING CONFIGURATION : 20 LAMPS (FORWARD FACING)

TOP DIAMETER : Ø 330

BOTTOM DIAMETER : Ø 630

WELDING STANDARD : AWS D1.1

GLAVANIZATION STANDARD : ASTM A123 / EN ISO 1461

DESIGN STANDARD : AASHTO 2009

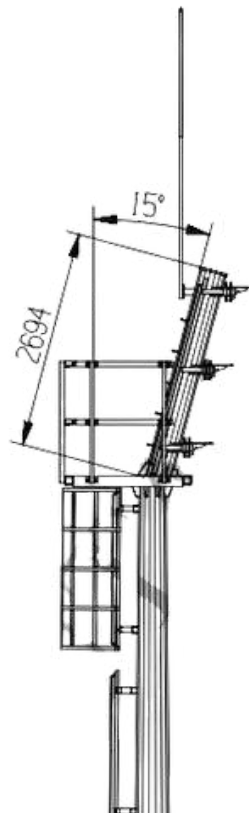
WIND RESISTANCE : 30M/S

AXIAL LOAD : 36kN

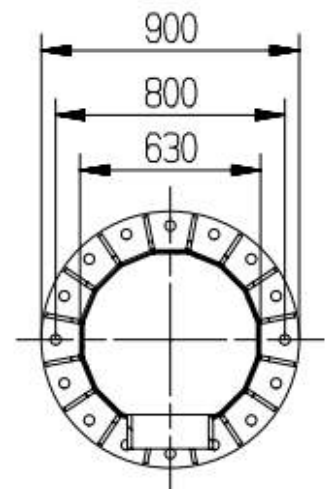
ANCHOR BOLTS & ACCESSORIES

BOTTOM BASEPLATE : Ø 900 x 30MM

J-BOLT : M30X1500 (355Mpa)



SIDE
VIEW



BOTTOM
FLANGE

20M HIGH MAST LIGHTING POLE (11 LAMPS WITH AUTO-LIFTING SYSTEM)

HM -04

MAIN POLE

HEIGHT : 20M (MAIN POLE)

NUMBER OF SECTIONS : 2

STEEL GRADE : Q235B

POLE SHAFT : DODECAGONAL

INSTALLATION TYPE : FLANGE CONNECTION

LIGHTING CONFIGURATION : 11 LAMPS (CIRCULAR)

TOP DIAMETER : Ø 200

BOTTOM DIAMETER : Ø 520

WELDING STANDARD : AWS D1.1

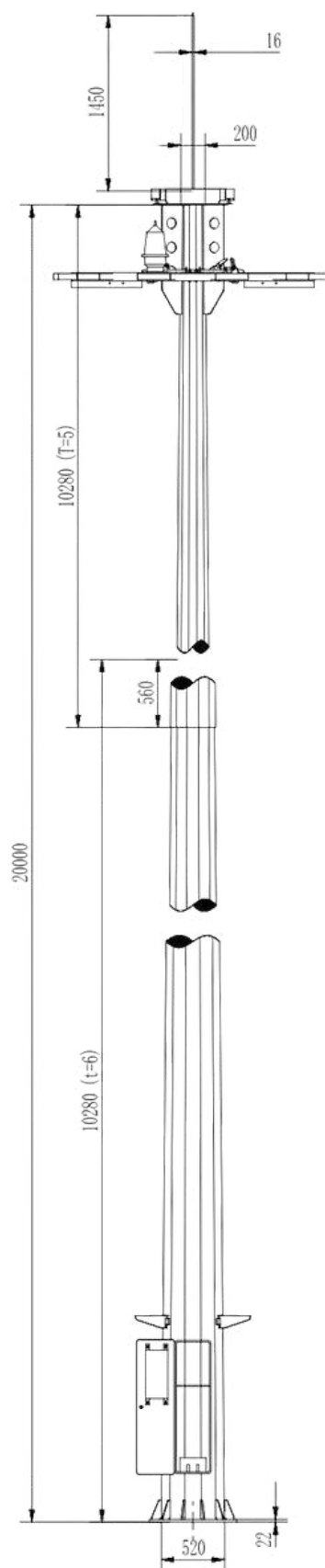
GLAVANIZATION STANDARD : ASTM A123 / EN ISO 1461

WIND RESISTANCE : 35M/S

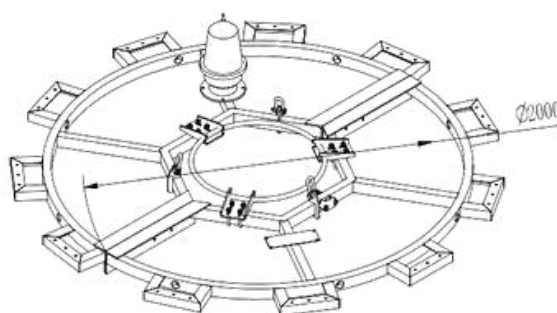
ANCHOR BOLTS & ACCESSORIES

LIGHTNING ARRESTER HEIGHT : 1450MM

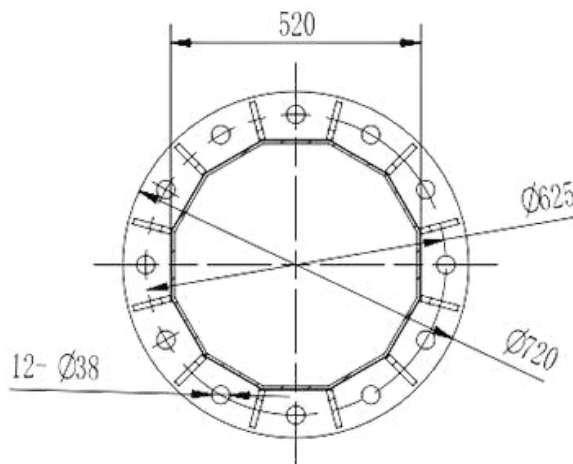
LIGHTNING ARRESTER THICKNESS : 16MM



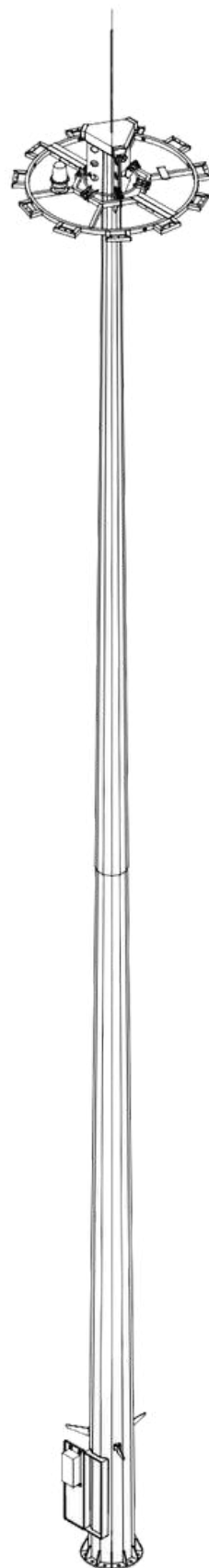
FRONT VIEW



11 LAMP BRACKET



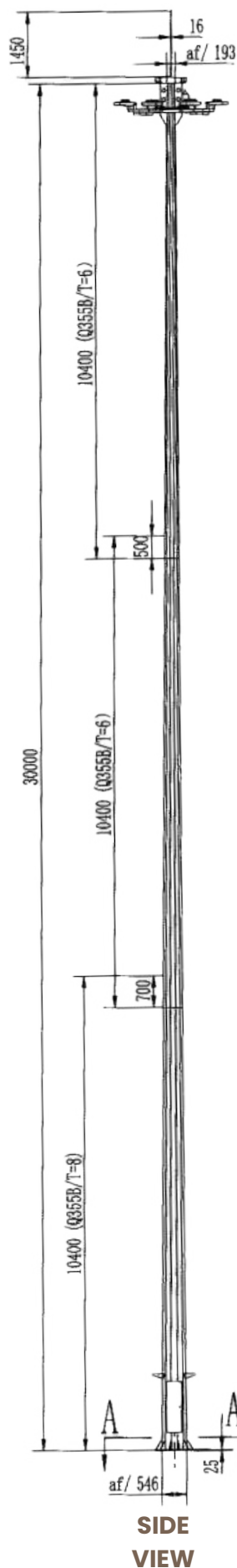
BOTTOM FLANGE



SIDE VIEW

30M HIGH MAST LIGHTING POLE

HM -05



MAIN POLE

HEIGHT : 30M

NUMBER OF SECTIONS : 3 (10.4M EACH SECTION)

STEEL GRADE : Q355B

POLE SHAFT : DODECAGONAL

INSTALLATION TYPE : FLANGE CONNECTION

LIGHTING CONFIGURATION : 8 LAMPS (CIRCULAR)

TOP DIAMETER : $\varnothing 193$

BOTTOM DIAMETER : $\varnothing 546$

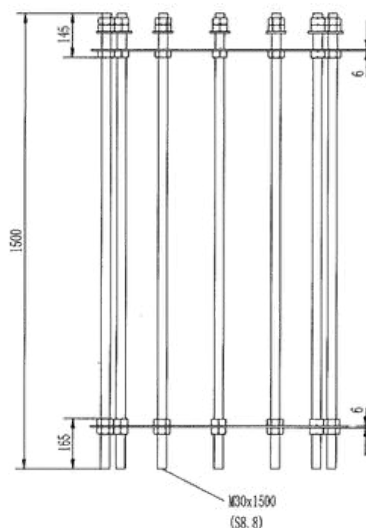
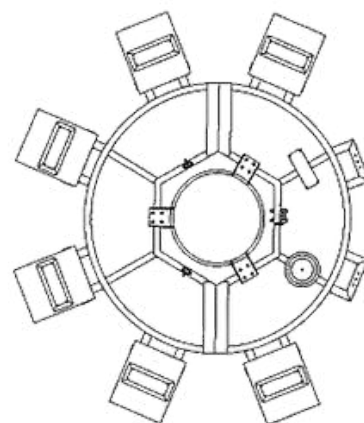
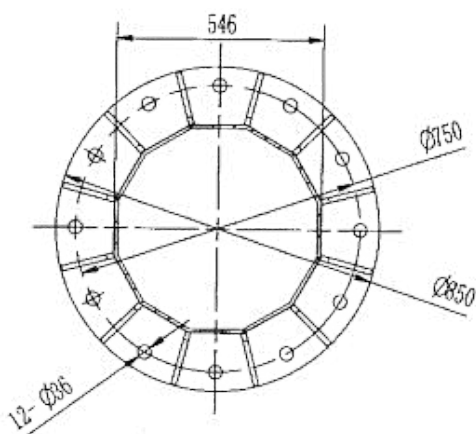
WELDING STANDARD : AWS D1.1

GLAVANIZATION STANDARD : ASTM A123 / EN ISO 1461

ANCHOR BOLTS & ACCESSORIES

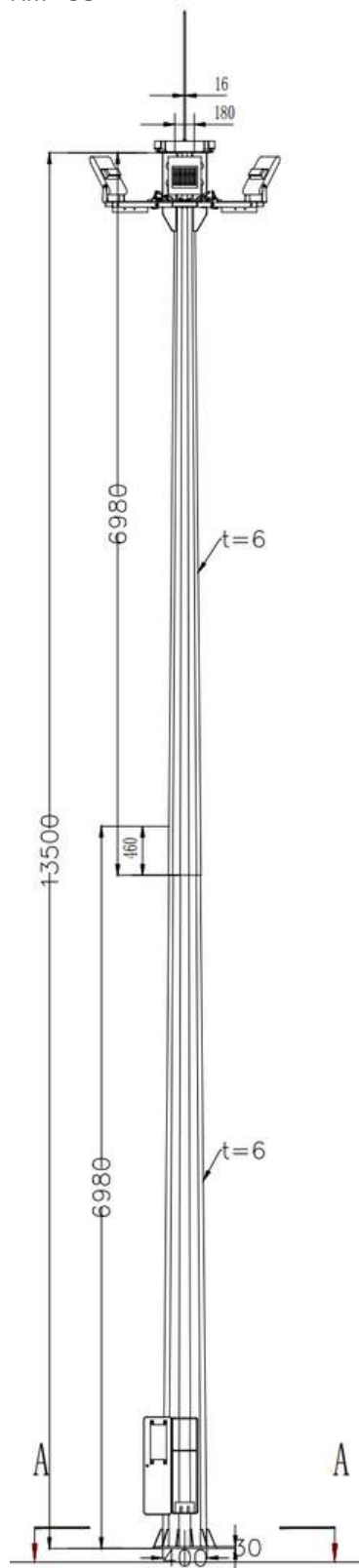
BOTTOM BASEPLATE : $\varnothing 850 \times 30\text{MM}$

J-BOLT : M30X1500 (GRADE 8.8)



13.5M HIGH MAST LIGHTING POLE (3 LAMPS WITH AUTO-LIFTING SYSTEM)

HM -06



MAIN POLE

HEIGHT : 13.5M

NUMBER OF SECTIONS : 2 (6980MM EACH SECTION)

STEEL GRADE : Q235B

POLE SHAFT : DODECAGONAL

INSTALLATION TYPE : FLANGE CONNECTION

LIGHTING CONFIGURATION : 3 LAMPS (CIRCULAR)

TOP DIAMETER : Ø 180

BOTTOM DIAMETER : Ø 400

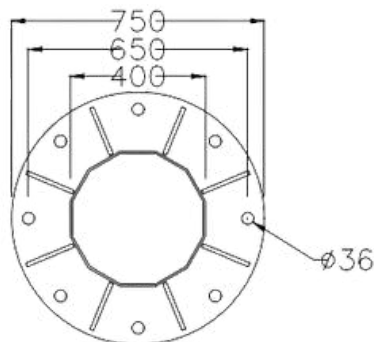
WELDING STANDARD : AWS D1.1

GLAVANIZATION STANDARD : ASTM A123 / EN ISO 1461

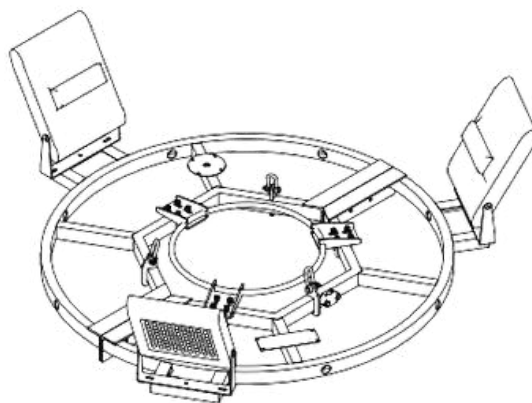
ANCHOR BOLTS & ACCESSORIES

BOTTOM BASEPLATE : Ø 750 x 25MM

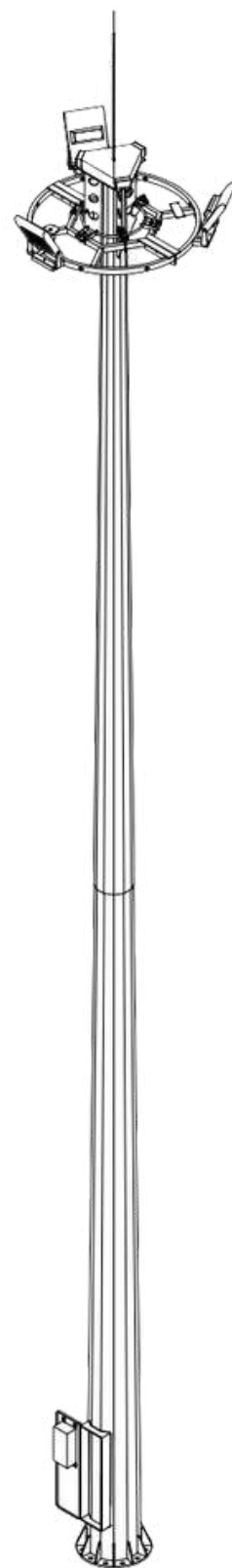
J-BOLT : M30X1500 (GRADE 8.8)



BOTTOM FLANGE



3 LAMP BRACKET WITH LIFTING MECHANISM



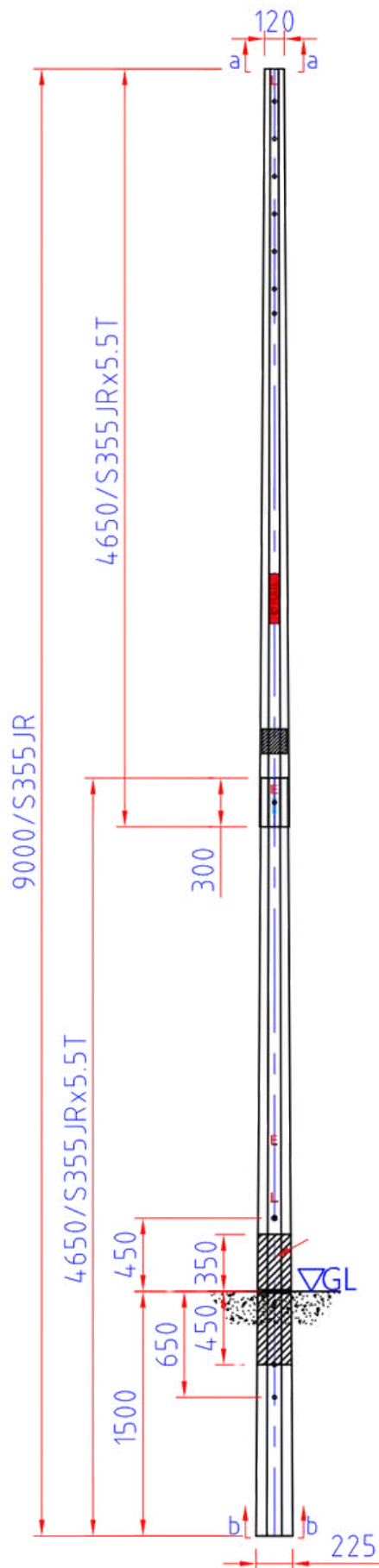
SIDE VIEW

UTILITY POLES



9M OCTAGONAL POWER POLE

EP -01



MAIN POLE

HEIGHT : 9M

NUMBER OF SECTIONS : 2

- SECTION 1 : 4650MM X 3.8MM
- SECTION 2 : 4650MM X 3.8MM

STEEL GRADE : S355JR

MAXIMUM LOAD : 1000KG

POLE SHAFT : DODECAGONAL

INSTALLATION METHOD : DIRECT EMBEDMENT

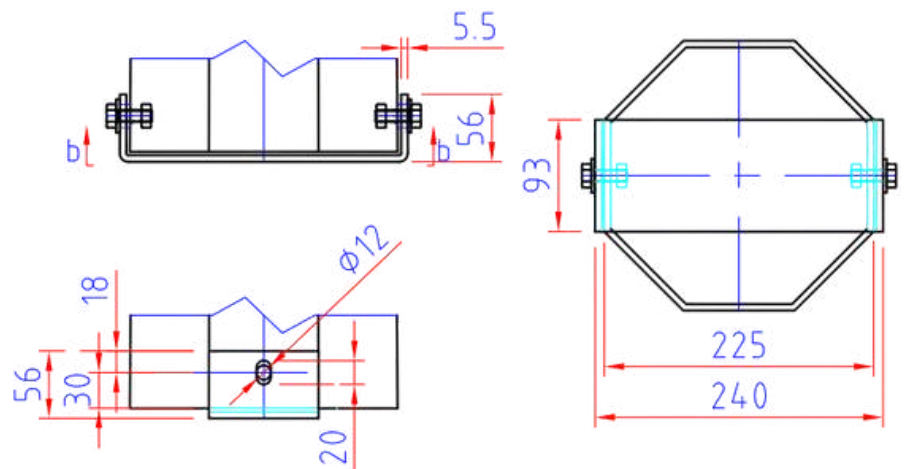
EMBEDMENT DEPTH : 1500MM

TOP DIAMETER : Ø 120MM

BOTTOM DIAMETER : Ø 225MM

WELDING STANDARD : AWS D1.1

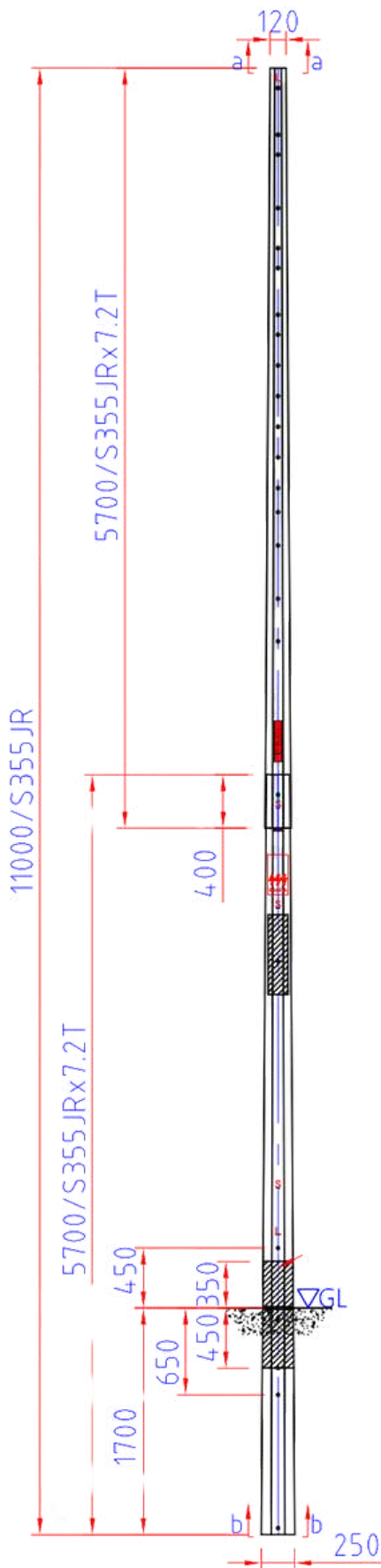
GLAVANIZATION STANDARD : ASTM A123 / EN ISO 1461



DETACHABLE BASE DETAIL

11M OCTAGONAL POWER POLE

EP -02



MAIN POLE

HEIGHT : 11M

NUMBER OF SECTIONS : 2

- SECTION 1 : 5700MM X 3.8MM
- SECTION 2 : 5700MM X 3.8MM

STEEL GRADE : S355JR

MAXIMUM LOAD : 1100KG

POLE SHAFT : DODECAGONAL

INSTALLATION METHOD : DIRECT EMBEDMENT

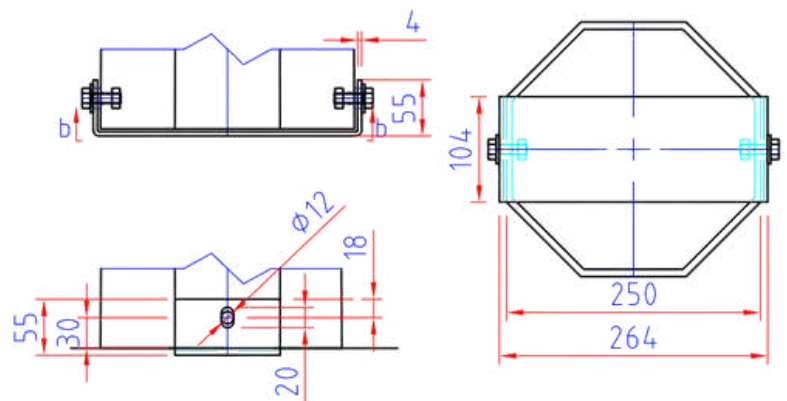
EMBEDMENT DEPTH : 1700MM

TOP DIAMETER : Ø 120MM

BOTTOM DIAMETER : Ø 250MM

WELDING STANDARD : AWS D1.1

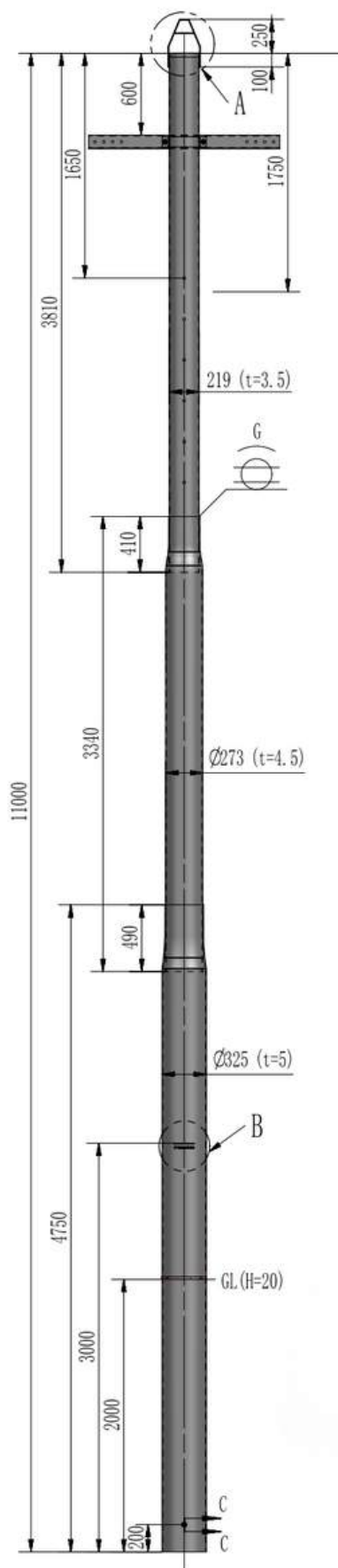
GLAVANIZATION STANDARD : ASTM A123 / EN ISO 1461



DETACHABLE BASE DETAIL

11M SWAGED POWER POLE

EP -03



MAIN POLE

HEIGHT : 11M

NUMBER OF SECTIONS : 3

- SECTION 1 : 3810MM X 3.5MM
- SECTION 2 : 3340MM X 4.5MM
- SECTION 3 : 4750MM X 5

STEEL GRADE : ST-52 DIN

POLE SHAFT : CONICAL (SWAGED)

INSTALLATION METHOD : DIRECT EMBEDMENT

EMBEDMENT DEPTH : 2000MM

TOP DIAMETER : Ø 237MM

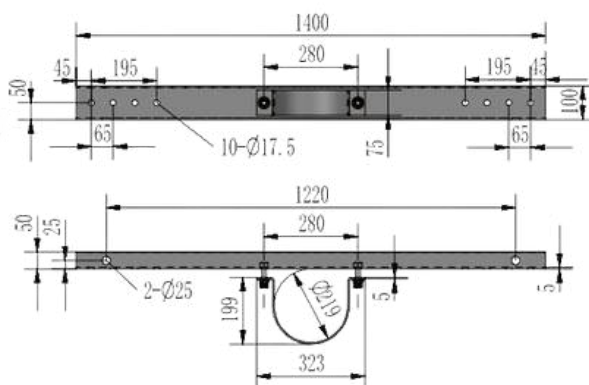
BOTTOM DIAMETER : Ø 325MM

WELDING STANDARD : AWS D1.1

GLAVANIZATION STANDARD : ASTM A123 / EN ISO 1461



CROSSARM

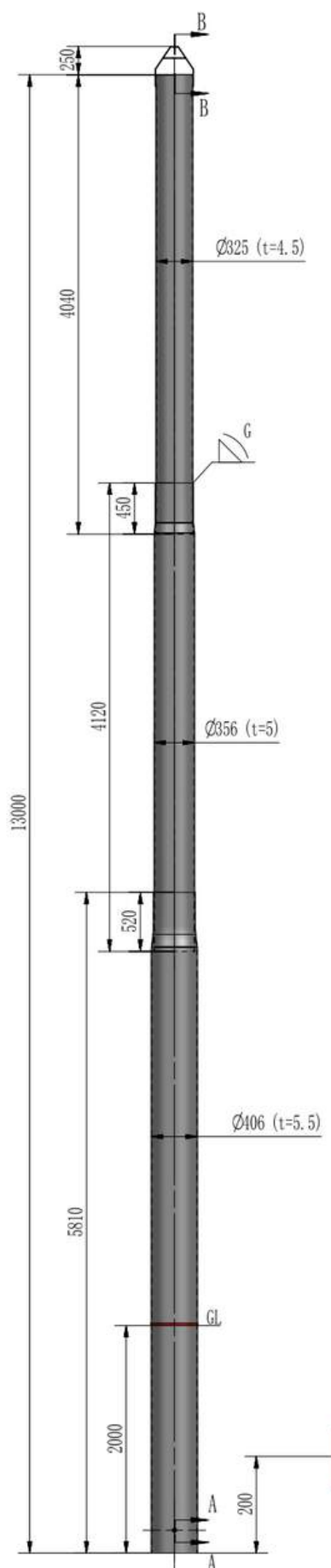


CROSSARM DETAILS



13M OCTAGONAL POWER POLE

EP -04



MAIN POLE

HEIGHT : 13M

NUMBER OF SECTIONS : 3

- SECTION 1 : 4040MM X 4.5MM
- SECTION 2 : 4120MM X 5MM
- SECTION 3 : 5810MM X 5.5MM

STEEL GRADE : ST-37-2

POLE SHAFT : CONICAL (SWAGED)

INSTALLATION METHOD : DIRECT EMBEDMENT

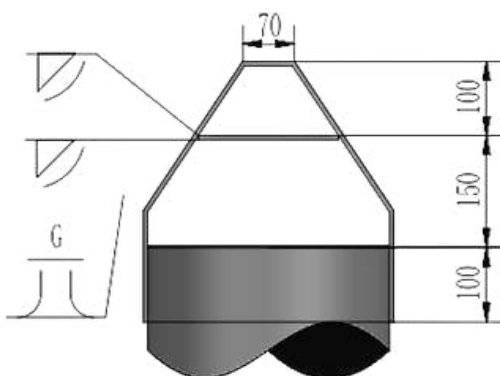
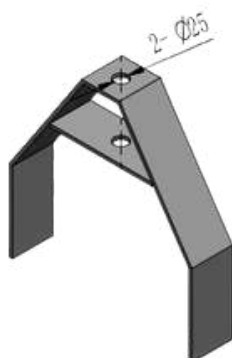
EMBEDMENT DEPTH : 2000MM

TOP DIAMETER : $\varnothing 325$ MM

BOTTOM DIAMETER : $\varnothing 406$ MM

WELDING STANDARD : AWS D1.1

GLAVANIZATION STANDARD : ASTM A123 / EN ISO 1461



TOP CAP DETAILS





FUTAO METAL

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