

CROSSARMS

1-1

DESCRIPTION: STEEL CHANNEL CROSSARM
D-DT #: 3000



NOTES:

STEEL CHANNEL CROSSARM; H-POLE
 MOUNTED FOR CUT OUT BRACKET

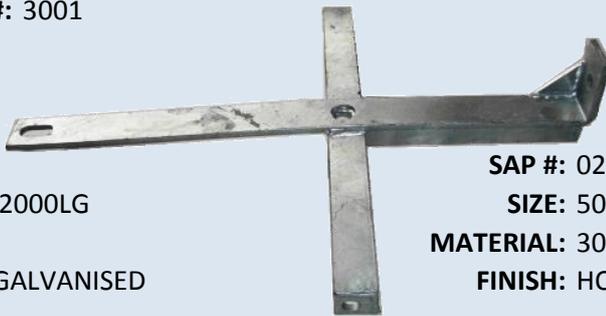
SAP #: 0189877

SIZE: 100 x 50 x 10.73kg/m, 2.4m LONG

MATERIAL: STEEL PARALLEL FLANGE CHANNEL S355JR

FINISH: HOT DIP GALVANISED

DESCRIPTION: INTERMEDIATE "T" CROSSARM ASSEMBLY
D-DT #: 3001



SAP #: 0168689

SIZE: 90x65x8x2000LG

MATERIAL: 300WA

FINISH: HOT DIP GALVANISED

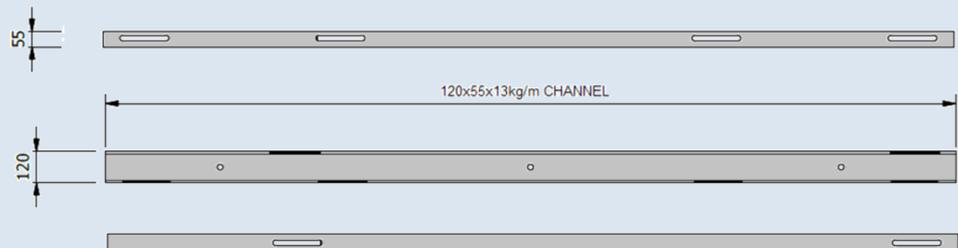
SAP #: 0206691

SIZE: 50x50x6x600LG

MATERIAL: 300WA

FINISH: HOT DIP GALVANISED

DESCRIPTION: H-POLE MOUNTED VOLTAGE REGULATOR PLATFORM
D-DT #: 3016



SAP #: 0189726

SIZE: 120x55x13x2600 LONG CHANNEL

MATERIAL: S355JR / 350WA

FINISH: HOT DIP GALVANISED

SAP #: 0189727

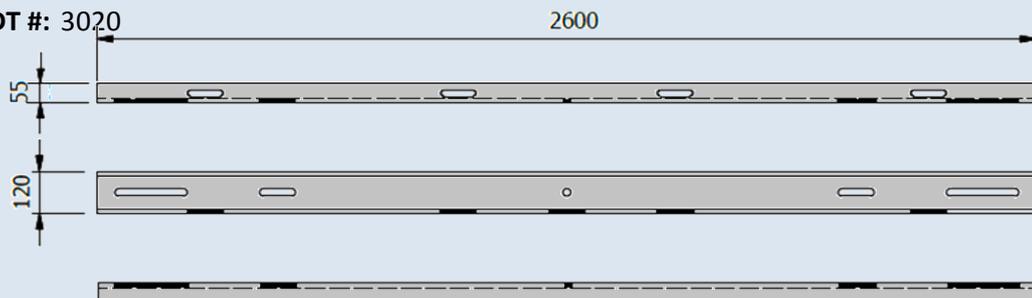
SIZE: 120x55x13x3000 LONG CHANNEL

MATERIAL: S355JR / 350WA

FINISH: HOT DIP GALVANISED

DESCRIPTION: H-POLE MOUNTED EQUIPMENT PLATFORM

D-DT #: 3020



SAP #: 0175465

SIZE: 120x55x13x2600 LONG CHANNEL

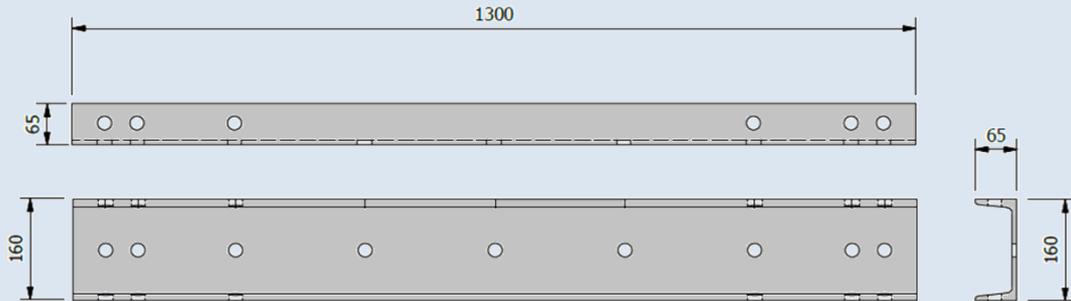
MATERIAL: S355JR / 350WA

FINISH: HOT DIP GALVANISED

CROSSARMS

1-2

DESCRIPTION: STEEL CHANNEL, FOX/MINK
D-DT #: 3027



NOTES:
 FOR USE ON A FOX/MINK CONDUCTOR

SAP #: 0168562
SIZE: 160x65x19.1 kg/m, 1.3m LG
MATERIAL: S355JR/350WA STEEL TAPER FLANGED CHANNEL
FINISH: HOT DIP GALVANISED

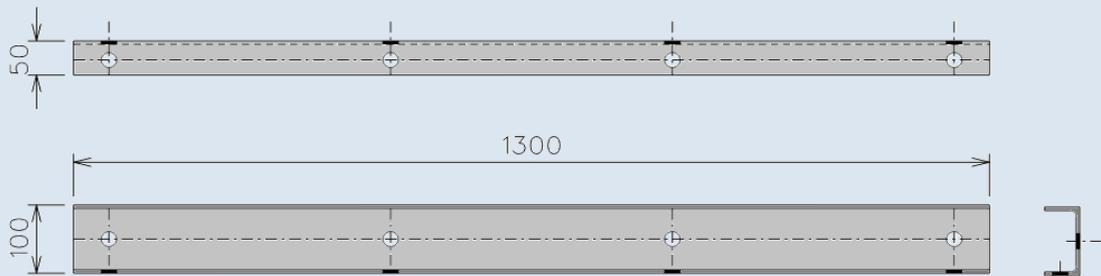
DESCRIPTION: STEEL CROSSARM WITH STEEL PLATE, HARE
D-DT #: 3027



NOTES:
 FOR USE ON A HARE CONDUCTOR

SAP #: 0168588
SIZE: 200x75x25 kg/m, 1.3m LG
MATERIAL: S355JR/350WA STEEL TAPER FLANGED CHANNEL
FINISH: HOT DIP GALVANISED

DESCRIPTION: STEEL CROSSARM, COMBI UNIT
D-DT #: 3027



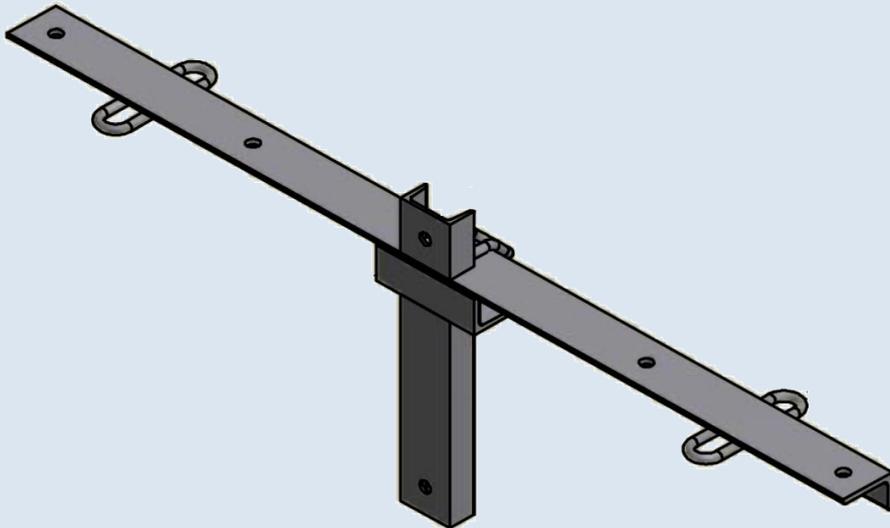
NOTES:
 UTILISED AS A MOUNTING CHANNEL FOR A
 COMBI UNIT

SAP #: 0251973
SIZE: 100x50x10.1 kg/m, 1.3m LG
MATERIAL: S355JR/350WA STEEL PARALLEL FLANGED CHANNEL
FINISH: HOT DIP GALVANISED

CROSSARMS

1-3

DESCRIPTION: MV STRAIN CROSSARM



DESCRIPTION: MV STRAIN CROSSARM, FOX

D-DT #: 3071

SAP #: 0179726

SIZE: 100 x 65 x 10 x 1700mm LONG

MATERIAL: 300WA

FINISH: HOT DIP GALVANISED

NOTES:

USED FOR FOX CONDUCTOR

DESCRIPTION: MV STRAIN CROSSARM, MINK+HARE

D-DT #: 3072

SAP #: 0179727

SIZE: 125 x 75 x 12 x 1700mm LONG

MATERIAL: 300WA

FINISH: HOT DIP GALVANISED

NOTES:

STRENGTH SUITABLE FOR MINK AND HARE CONDUCTOR

DESCRIPTION: MV STRAIN CROSSARM, CHICADEE - KINGBIRD

D-DT #: 3072

SAP #: 0224546

SIZE: 150 x 75 x 12 x 1700mm LONG

MATERIAL: 300WA

FINISH: HOT DIP GALVANISED

NOTES:

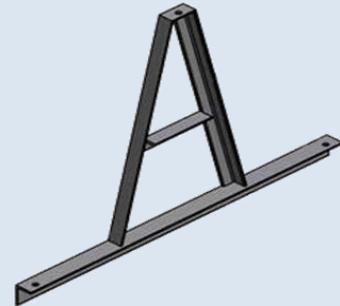
STRENGTH SUITABLE FOR CHICADEE TO KINGBIRD CONDUCTOR

CROSSARMS

1-4

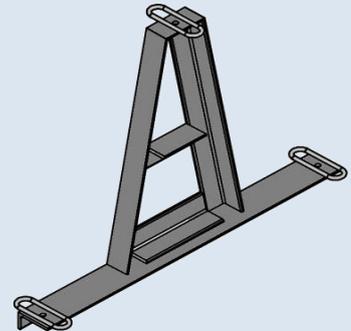
DESCRIPTION: MV A-FRAME SUSPENSION CROSSARM ASSEMBLY
D-DT #: 3154

SAP #: 0214878
SIZE: 1500 LONG
MATERIAL: S355JR/350WA STEEL
FINISH: HOT DIP GALVANISING

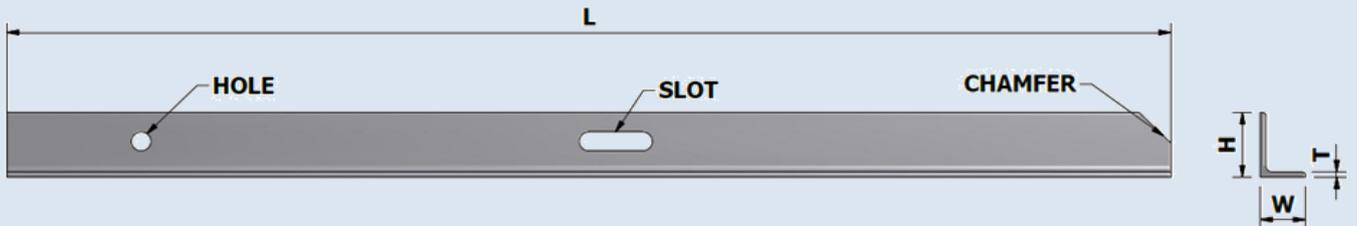


DESCRIPTION: MV A-FRAME STRAIN CROSSARM ASSEMBLY
D-DT #: 3155

SAP #: 0214879
SIZE: 1500 LONG
MATERIAL: S355JR/350WA STEEL
FINISH: HOT DIP GALVANISING

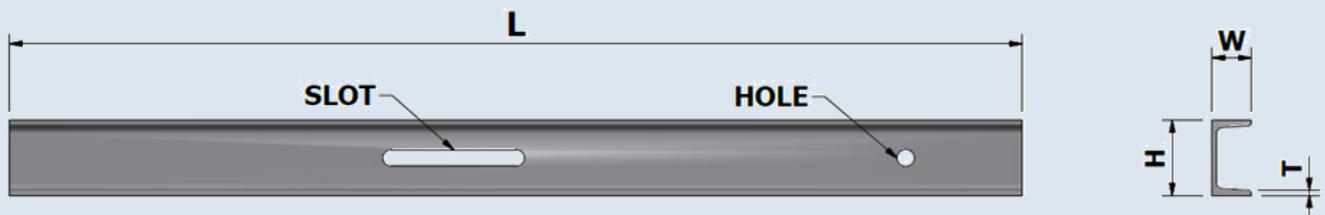


DESCRIPTION: ANGLE IRON CROSSARMS



SIZE: VARIABLE - MANUFACTURED AS PER CUSTOMER REQUIREMENTS

DESCRIPTION: CHANNEL IRON CROSSARMS



SIZE: VARIABLE - MANUFACTURED AS PER CUSTOMER REQUIREMENTS

STAY ASSEMBLIES

1-5



DESCRIPTION: THIMBLE, WIRE
MATERIAL: MILD STEEL
SIZE: 70mm x 20mm x \varnothing 40mm
FINISH: HOT DIP GALVANISED

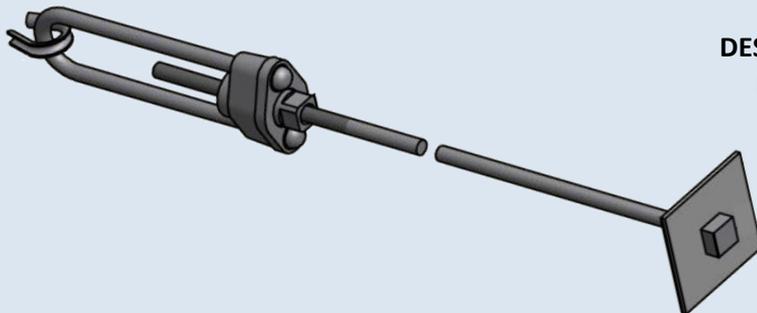


DESCRIPTION: STAY BASE PLATE
MATERIAL: MILD STEEL
SIZE: VARIABLE
FINISH: HOT DIP GALVANISED

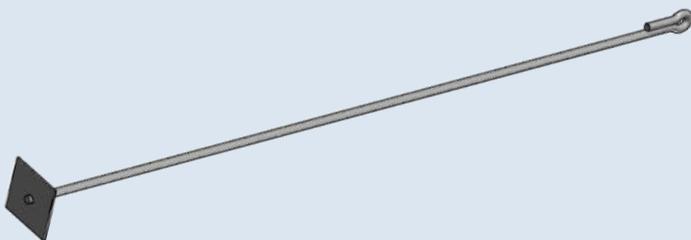
NOTES:

Stay base plates are used in conjunction with stay rods. The size and thickness varies, depending on soil conditions, and load being supported by the stay rods. Various shapes are also produced with the most common being square, octagonal and round.

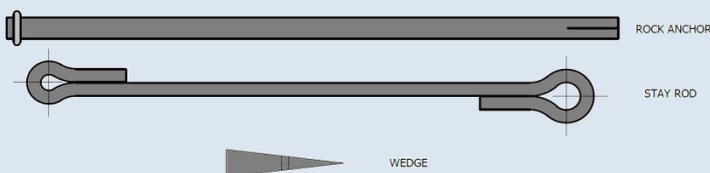
Stay rods are used in the staying of electrification, telecommunication and railway electrification poles. Non-adjustable stay rods are mostly used in conjunction with preformed wire products while adjustable stay rods allows for easy re-tensioning during the course of ongoing maintenance.



DESCRIPTION: ADJUSTABLE STAY ROD
MATERIAL: MILD STEEL
SIZE: M16, M20, M24
LENGTH: VARIABLE
FINISH: HOT DIP GALVANISED



DESCRIPTION: NON ADJUSTABLE STAY ROD
MATERIAL: MILD STEEL
SIZE: M12, M16, M20, M24
LENGTH: VARIABLE
FINISH: HOT DIP GALVANISED



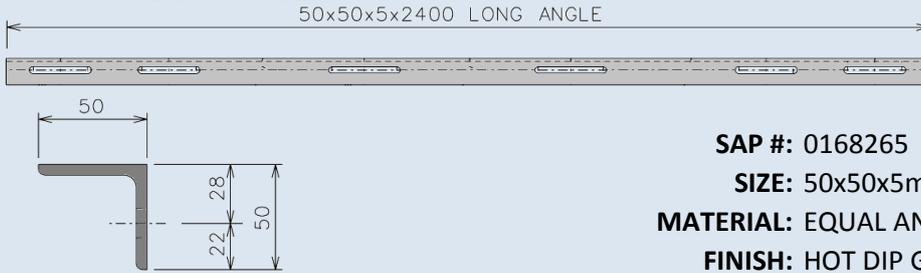
DESCRIPTION: ROCK ANCHOR
MATERIAL: MILD STEEL
SIZE: 96kN & 114kN
FINISH: HOT DIP GALVANISED

BRACKETS AND STRAPS

1-6

DESCRIPTION: BRACKET,TYPE F METER BOX

D-DT #: 3022



SAP #: 0168265

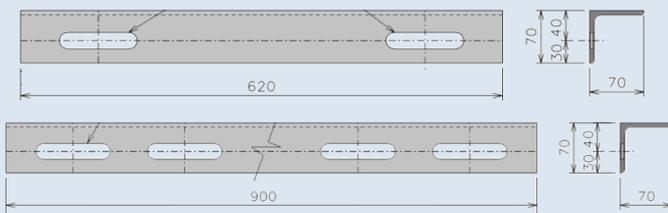
SIZE: 50x50x5mm 2400mm LONG

MATERIAL: EQUAL ANGLE IRON 250MPa STEEL

FINISH: HOT DIP GALVANISED

DESCRIPTION: TRANSFORMER PLATFORM ANGLE BRACKET

D-DT #: 3023



SAP #: 0175466

SIZE: 70x70x6x6.38kg/mx620mm LONG

SAP #: 0184235

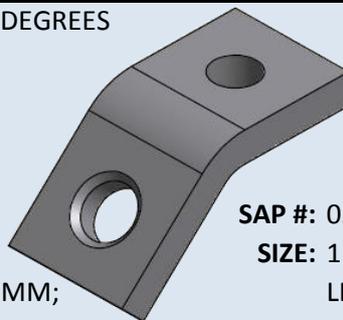
SIZE: 70x70x6x6.38kg/mx900mm LONG

MATERIAL: EQUAL ANGLE IRON S355JR/350WA

FINISH: HOT DIP GALVANISED

DESCRIPTION: STAY BRACKET; 45 DEGREES

D-DT #: 3032



SAP #: 0163398

SIZE: 96kN

LENGTH: 121 MM; **WIDTH:** 60 MM;

THICKNESS: 16MM

MATERIAL: STEEL GRADE: S355JR

FINISH: HOT DIP GALVANISED

SAP #: 0565723

SIZE: 112kN

LENGTH: 131 MM; **WIDTH:** 70 MM;

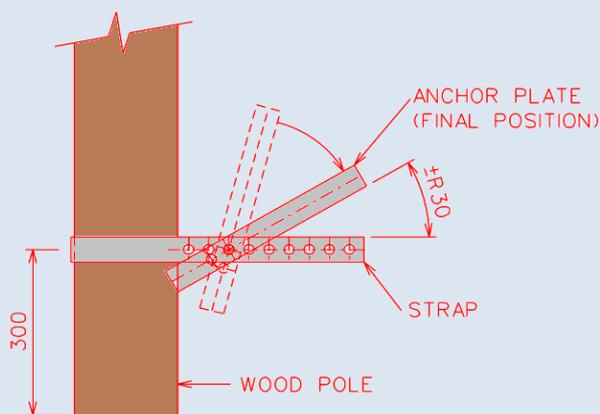
THICKNESS: 16MM

MATERIAL: STEEL GRADE: S355JR

FINISH: HOT DIP GALVANISED

DESCRIPTION: SOIL ANCHOR ASSEMBLY (KICK PLATE)

D-DT #: 3035



SAP #: 0164313

SIZE: 380x220x70

MATERIAL: GRADE S355JR/350WA STEEL

FINISH: HOT DIP GALVANISED

ANCHOR PLATE ASSEMBLED

BRACKETS AND STRAPS

DESCRIPTION: POLE TOP (ALSO KNOWN AS L-TYPE) BRACKET

D-DT #: 3046



SAP #: 0168552

SIZE: 402x60x110 ARM

MATERIAL: GRADE 300W STEEL

FINISH: HOT DIP GALVANISED

DESCRIPTION: D-BRACKET FOR SHACKLE INSULATOR

D-DT #: 3096



NOTE: Suitable for S.1 and S.05 size LV shackle insulators

SAP #: 0168895

SIZE: 135x50x102 17.5mm

MATERIAL: S355JR/350WA STEEL

FINISH: HOT DIPPED GALVANISED

SAP #: 0168776

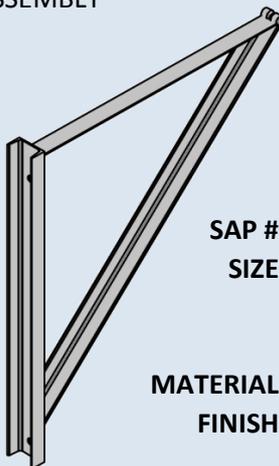
SIZE: 120x50x91 17.5mm

MATERIAL: S355JR/350WA STEEL

FINISH: HOT DIPPED GALVANISED

DESCRIPTION: HIP STAY BRACKET ASSEMBLY

D-DT #: 3106



SAP #: 0219922

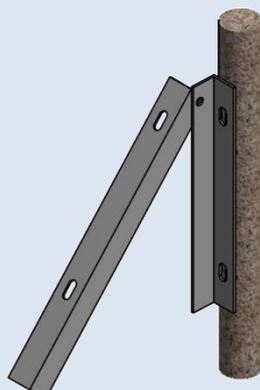
SIZE: 1100 LONG CHANNEL, 950 LONG ANGLE, 1352 LONG ANGLE, Ø30 x 60 LONG SOLID ROUND STEEL BAR ROLLER

MATERIAL: GRADE S355JR/350WA STEEL

FINISH: HOT DIPPED GALVANISED

DESCRIPTION: SWIVEL STRUT BRACKET (CONCRETE POLE)

D-DT #: 3150



SAP #: 0164291

SIZE: 70 x 70 x 6 x 800mm LONG ANGLE IRON &

70 x 70 x 6 x 650mm LONG ANGLE IRON

MATERIAL: GRADE S355JR/350WA STEEL

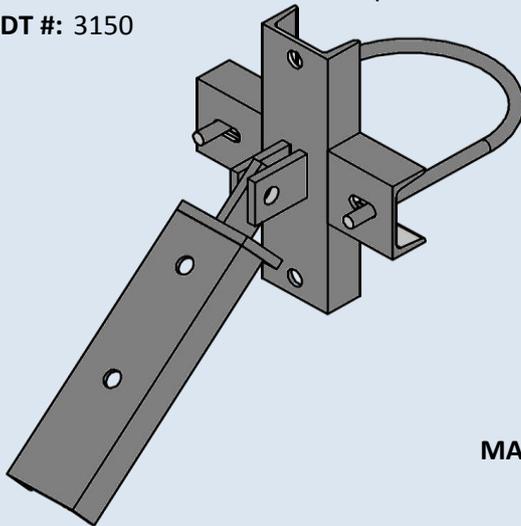
FINISH: HOT DIPPED GALVANISED

BRACKETS AND STRAPS

1-8

DESCRIPTION: SWIVEL STRUT BRACKET (WOOD POLE)

D-DT #: 3150



SAP #: 0164307

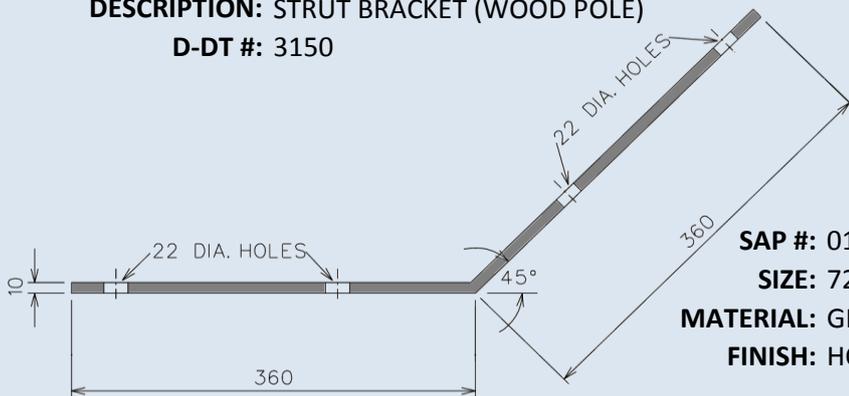
SIZE: 60 x 80 x 12mm THICK FLAT STEEL ,
100 x 80 x 12mm THICK FLAT STEEL,
100 x 50 x 11 x 350mm CHANNEL IRON,
100 x 50 x 11 x 100mm CHANNEL IRON,
100 x 50 x 11 x 350mm CHANNEL IRON, &
60 x 80 x 12mm THICK FLAT STEEL

MATERIAL: GRADE 300W STEEL

FINISH: HOT DIP GALVANISED

DESCRIPTION: STRUT BRACKET (WOOD POLE)

D-DT #: 3150



SAP #: 0168525

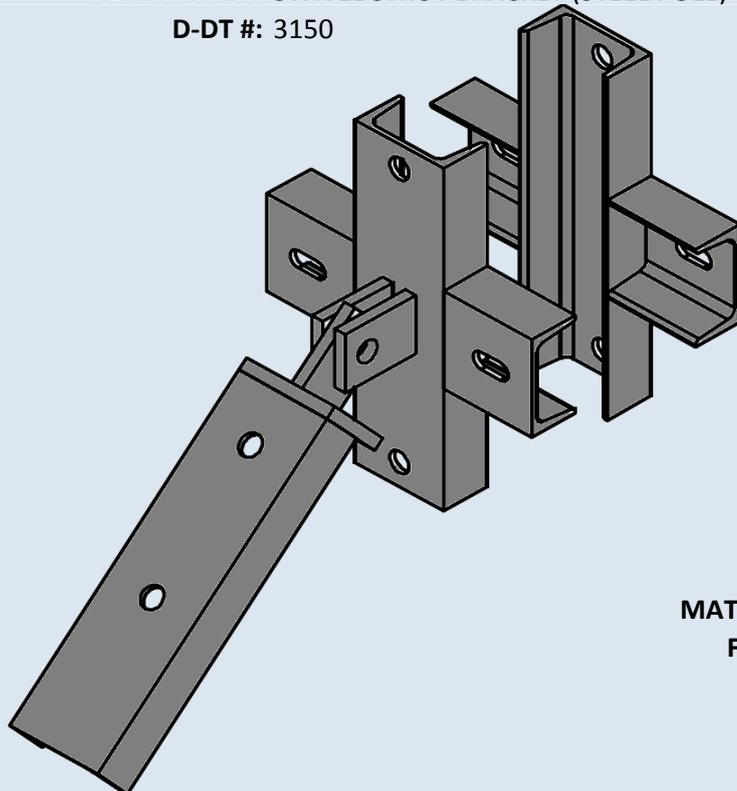
SIZE: 720mm x 60mm WIDE x 10mm FLAT STEEL

MATERIAL: GRADE 300W STEEL

FINISH: HOT DIP GALVANISED

DESCRIPTION: SWIVEL STRUT BRACKET (STEEL POLE)

D-DT #: 3150



SAP #: 0225330

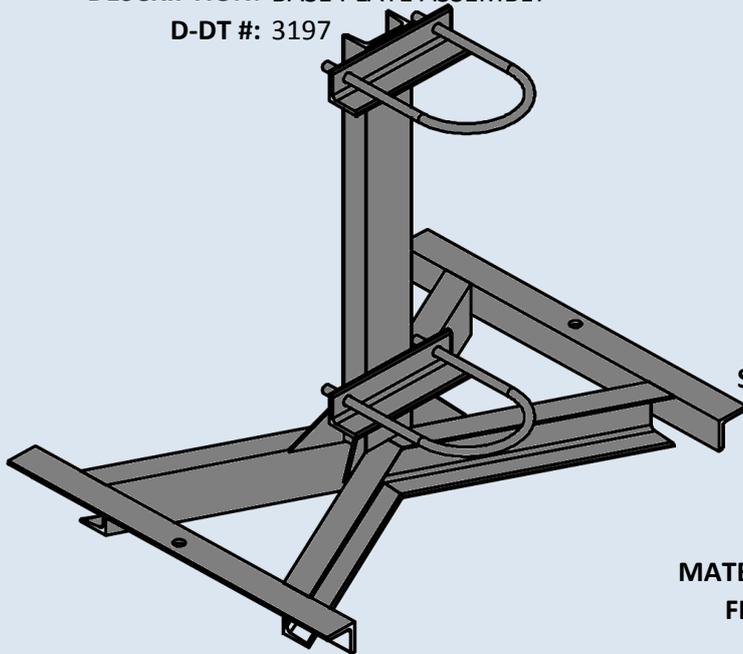
SIZE: 60 x 80 x 12mm THICK FLAT STEEL,
100 x 80 x 12mm THICK FLAT STEEL,
100 x 50 x 11 x 350mm CHANNEL IRON,
100 x 50 x 11 x 100mm CHANNEL IRON,
100 x 50 x 11 x 350mm CHANNEL IRON,
60 x 80 x 12mm THICK FLAT STEEL

MATERIAL: GRADE S355JR/350W STEEL

FINISH: HOT DIPPED GALVANISED

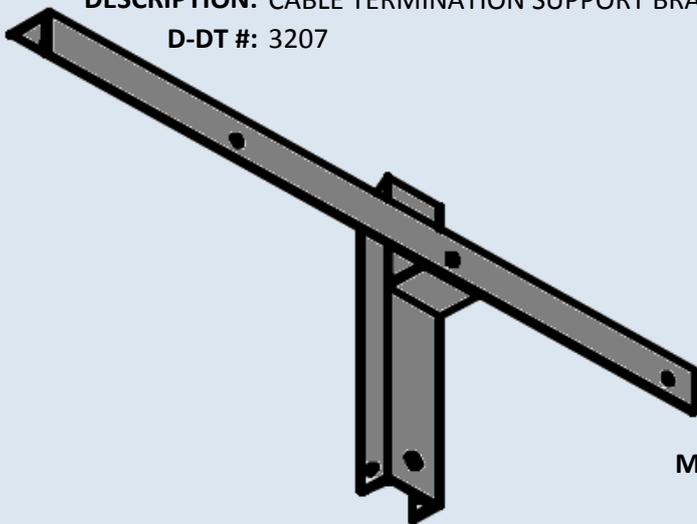
BRACKETS AND STRAPS

DESCRIPTION: BASE PLATE ASSEMBLY
D-DT #: 3197



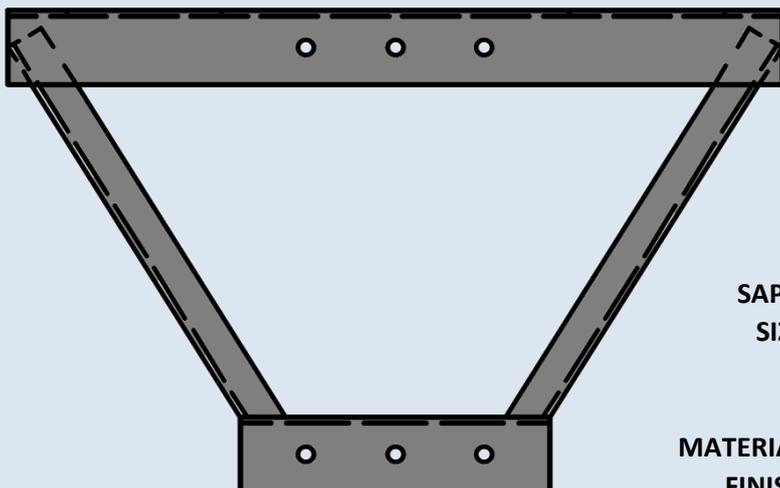
SAP #: 0163427
SIZE: 100x50x10x890 LONG PF CHANNEL,
 60x60x700 LONG ANGLE,
 100x50x10x800 LONG PF CHANNEL,
 100x100x6 THICK FLAT BAR,
MATERIAL: GRADE 300W STEEL
FINISH: HOT DIP GALVANISED

DESCRIPTION: CABLE TERMINATION SUPPORT BRACKET
D-DT #: 3207



SAP #: 0175536
SIZE: 70x70x6x1200 LONG ANGLE,
 70x70x6x100 LONG ANGLE , AND
 100x50x11x500 LONG CHANNEL
MATERIAL: GRADE 300W STEEL
FINISH: HOT DIP GALVANISED

DESCRIPTION: SINGLE POLE MOUNTED PLATFORM SUPPORT CRADLE
D-DT #: 3220



SAP #: 0184236
SIZE: 100 x 75 x 8 x 1000 UNEQUAL ANGLE
 100 x 75 x 8 x 400 UNEQUAL ANGLE, AND
 50 x 50 x 8 x 620 ANGLE
MATERIAL: GRADE 300W STEEL
FINISH: HOT DIP GALVANISED

BRACKETS AND STRAPS

1-10

DESCRIPTION: DOUBLE MOUNTED SURGE ARRESTER BRACKET

D-DT #: 3227



SAP #: 0185978

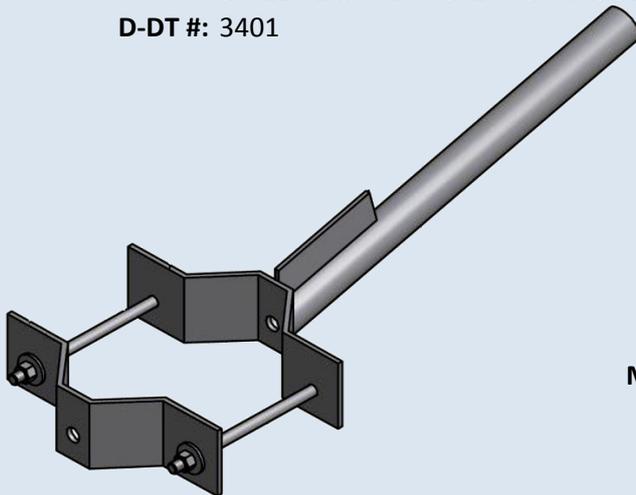
SIZE: 40 x 5 x 220mm LONG FLAT STEEL

MATERIAL: 250MPa STEEL

FINISH: HOT DIPPED GALVANISED

DESCRIPTION: STREET LIGHT BRACKET FOR WOOD POLES

D-DT #: 3401



SAP #: 0164670

SIZE: 80 x 6 x 340 LONG FLAT STEEL

40 x 5 x 140 LONG FLAT STEEL

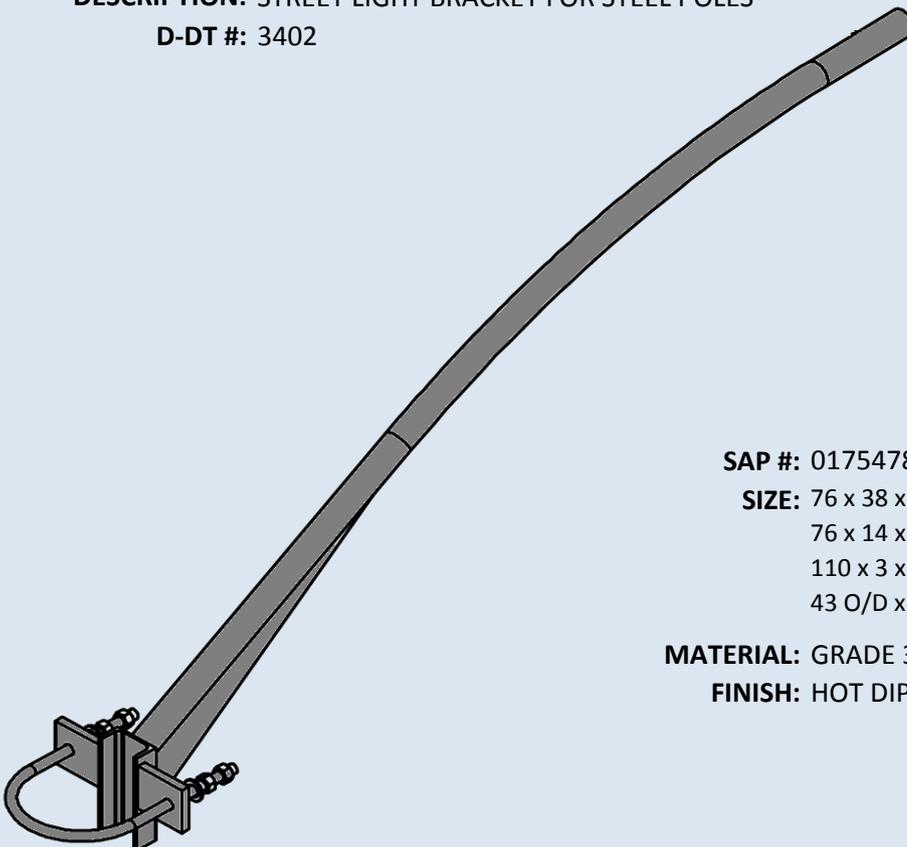
42 O/D x 3.0 x 500 CIRCULAR HOLLOW

MATERIAL: GRADE 300W STEEL

FINISH: HOT DIP GALVANISED

DESCRIPTION: STREET LIGHT BRACKET FOR STEEL POLES

D-DT #: 3402



SAP #: 0175478

SIZE: 76 x 38 x 7 x 165 CHANNEL,

76 x 14 x 87 FLAT STEEL,

110 x 3 x 684 FLAT STEEL

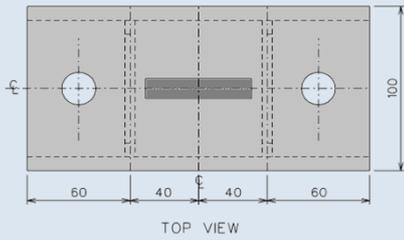
43 O/D x 3.0 x 1524 CIRCULAR HOLLOW SECTION

MATERIAL: GRADE 300W STEEL

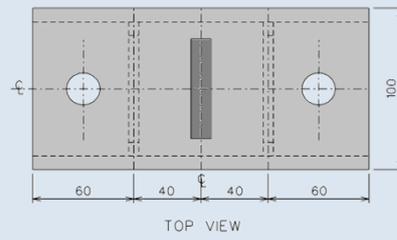
FINISH: HOT DIP GALVANISED

BRACKETS AND STRAPS

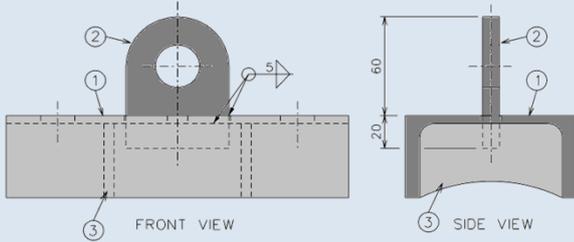
DESCRIPTION: STRAIN BRACKET FOR LARGE CONDUCTORS WITH UTS 120kN
D-DT #: 7039



TOP VIEW



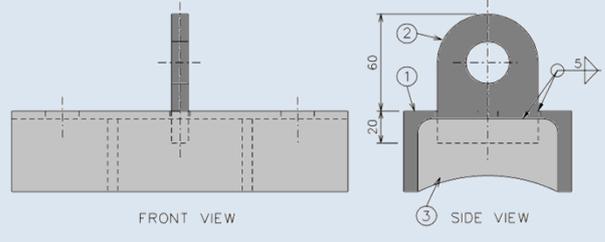
TOP VIEW



FRONT VIEW

SIDE VIEW

OPTION 1



FRONT VIEW

SIDE VIEW

OPTION 2

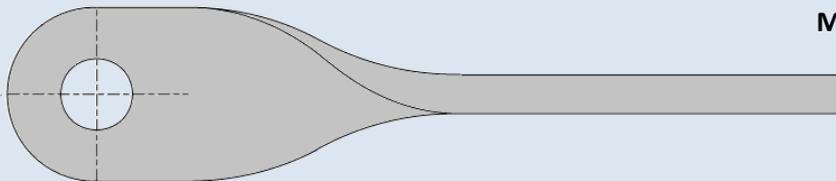
SAP #: 0175538

0210592

SIZE: 100x50x10 x 200mm PF CHANNEL, 60x10x80mm FLT BAR & 45x6x83 FLT BAR (GUSSETS)

MATERIAL: GRADE 300W STEEL

FINISH: HOT DIP GALVANISED



DESCRIPTION: TWISTED CROSS-ARM LINK

MATERIAL: MILD STEEL

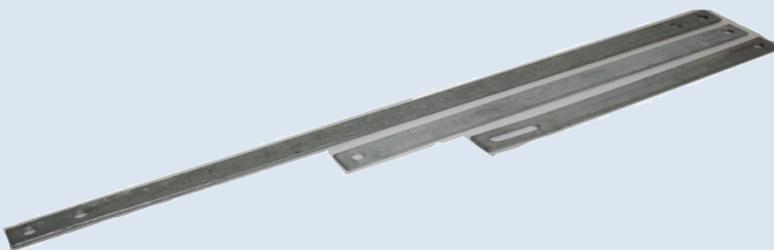
GRADE: 250MPa

SIZE: 50 X 5MM THICK

LENGTH: 220mm

FINISH: HOT DIP GALVANISED

SAP#: 0168540



DESCRIPTION: TIE (DIAGONAL) STRAP

MATERIAL: MILD STEEL

GRADE: 250MPa

FINISH: HOT DIP GALVANISED

SAP#: **DIMENSIONS:**

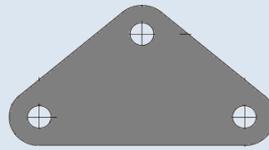
0168553 910x50x6

0168775 701x50x6

0179728 1410x50x6

PROFILING

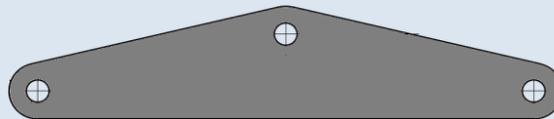
DESCRIPTION: TRIANGULAR YOKE PLATE 120kN
D-DT #: 7015
MATERIAL: GRADE S355JR/350WA STEEL
FINISH: HOT DIPPED GALVANISED
SIZE: 16mm PLATE



SAP #: 0010842

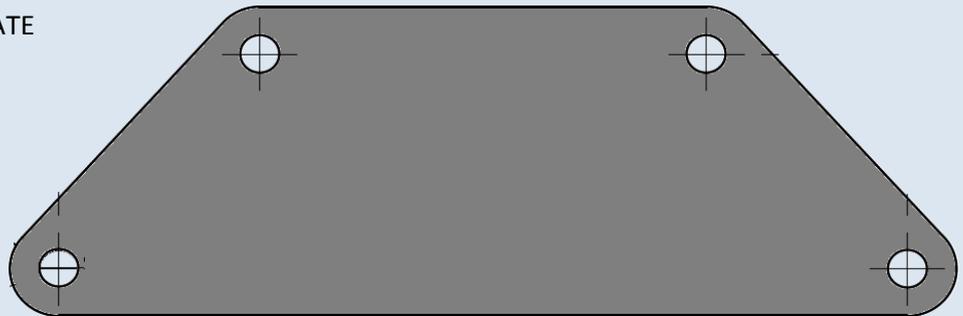


SAP #: 0168861

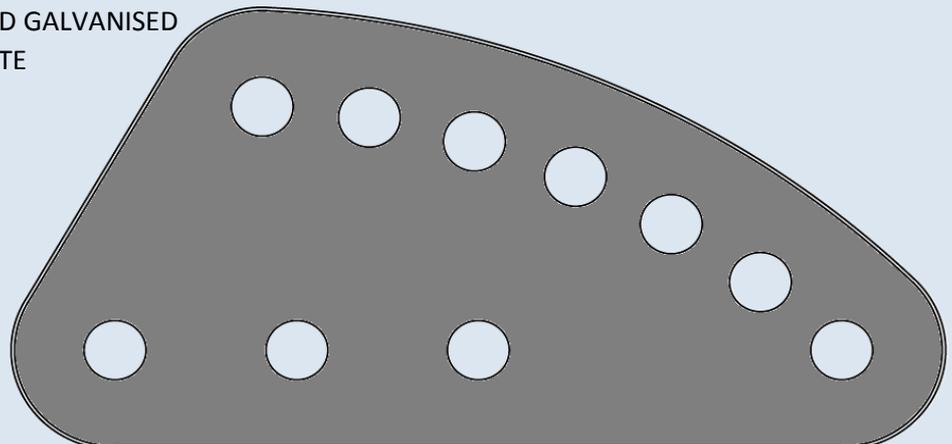


SAP #: 0168961

DESCRIPTION: TRAPEZOIDAL YOKE PLATE 120kN
D-DT #: 7016
MATERIAL: GRADE S355JR/350WA STEEL
FINISH: HOT DIPPED GALVANISED
SIZE: 16mm PLATE
SAP #: 0168862



DESCRIPTION: SAG ADJUSTOR 120kN
D-DT #: 7042
MATERIAL: GRADE S355JR/350WA STEEL
FINISH: HOT DIPPED GALVANISED
SIZE: 16mm PLATE
SAP #: 0175857



STUBBIES

1-13

WHAT IS THE NUMILL POLE STUB SYSTEM?

The Numill Pole Stub System is a patented, tested and approved stubbing solution. It is a preventative and corrective system used as an alternative for full pole replacement. The Numill system is a complete pole maintenance package and includes:-

Onsite proof load Testing / Reporting, & Pole stubbing.

WHAT ARE THE PRO'S, CONS & CORRECTIVE MEASURES TAKEN FOR THE NUMILL POLE STUB SYSTEM?

PRO'S:

- * Stubbing is +- 55% more cost effective than pole replacement.
- * Time of installations: +-300% faster.
- * Product is installed under live line conditions.
- * Pole life is extended.
- * Stub system retains value at end of life / Stubs are re-usable.
- * Very quick installation (+- 2 hours per pole)

CONS:

- * Threat of theft.
- * Inaccurate installation may cause failure.
- * Installation may be problematic in built up-environments.
- * Rejected poles (Class 5) generally not suitable to stub.

CORRECTIVE MEASURES:

- * Thread portion above nut is welded.
 - a) Lock Nuts
 - b) Crimp threads / weld
- * Trained installers have correct installation procedures in site file. No alternatives allowed.
- * If the pole is next to built up wall. If it is not possible to stub, Pole replacement will be done.
- * Pole deterioration, For example by termites: Pole replacement will take place.

APPLICATIONS:

- * LV distribution poles.
- * MV distribution poles.
- * 66kV wood pole transmission lines.
- * 132kV wood pole transmission lines.

CONSTRUCTION:

- * Various designs to accommodate required applications.
- * Steel construction made from 2 x L-shaped stub brackets.
- * Grouted ground anchors to secure brackets in soil.
- * Threaded-rod ties are used to secure pole between stub brackets.
- * All loose components welded together.

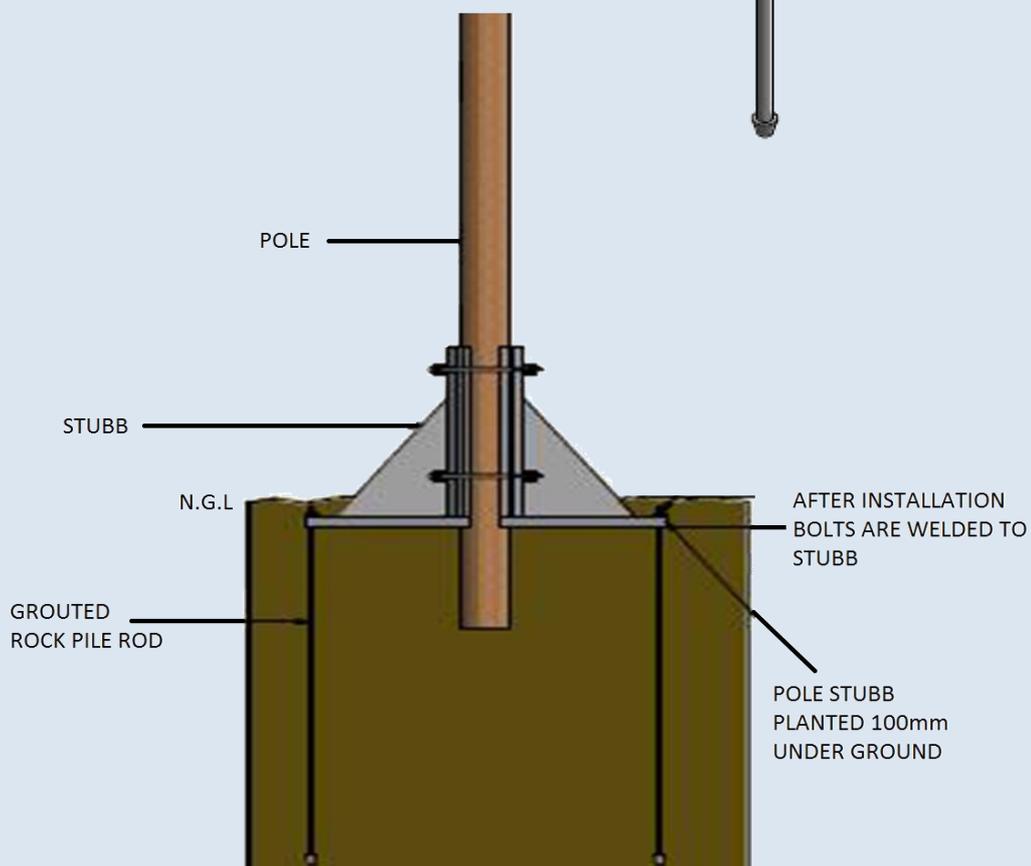
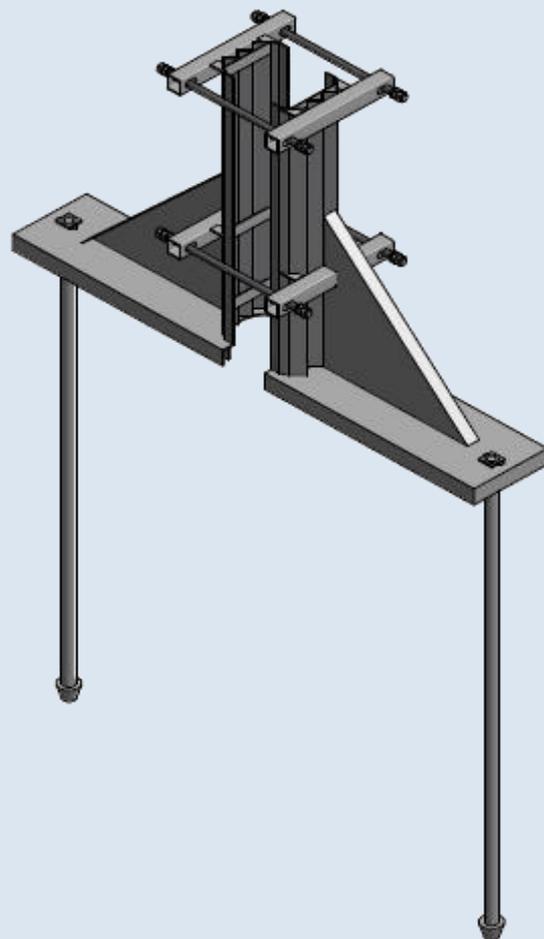
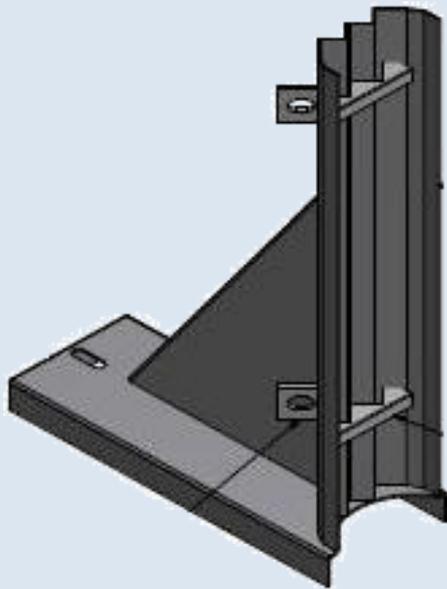
HOW DOES IT FUNCTION?

- * A degraded wooden pole is identified by means of NDT testing.
- * Depending on the classification and pole size a suitable stub size is selected.
- * The stub is placed 90 degrees to the line direction and anchored by means of grouted ground anchors. Once the anchors have been tested to a Proof load (80kN) the stub brackets are mounted and then

STUBBIES

1-14

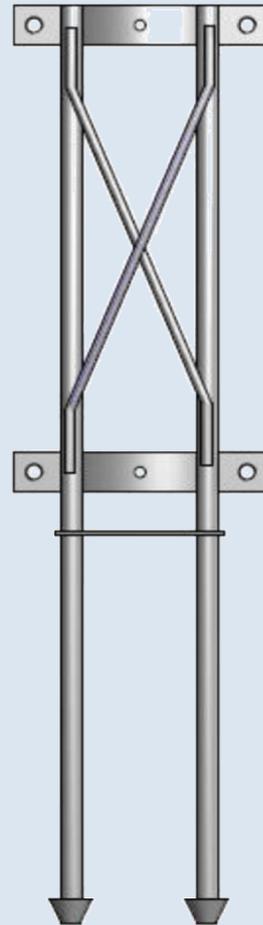
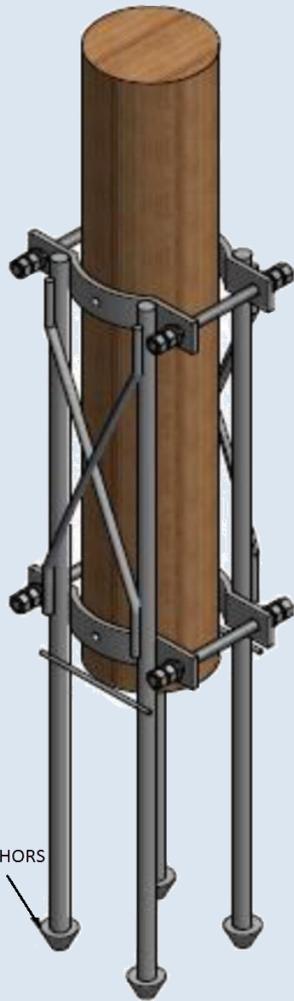
DESCRIPTION: LV/MV STUBB



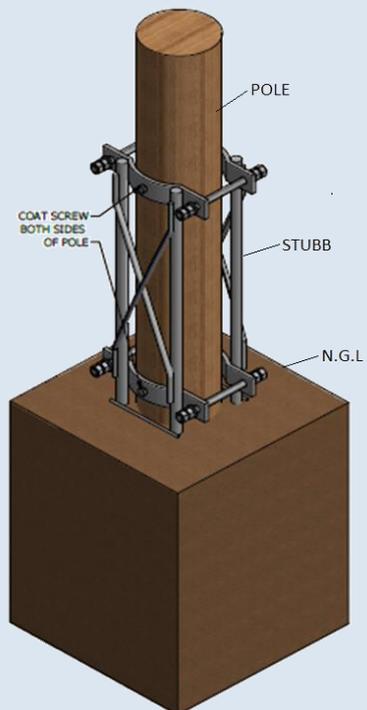
STUBBIES

1-15

DESCRIPTION: STUBB FOR ROCKY AREAS



BSS ANCHORS



POLE

COAT SCREW
BOTH SIDES
OF POLE

STUBB

N.G.L