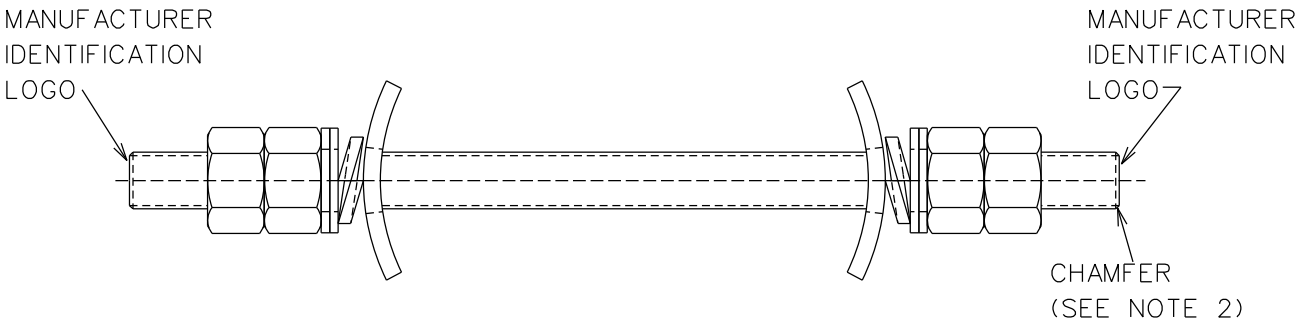


NOTE :

1. SKETCH NOT FOR MANUFACTURING PURPOSES.
2. THREAD TO BE CHAMFERED BOTH ENDS SEE SAP TECHNICAL DESCRIPTION FOR CHAMFER AMOUNT AND TO BE CUT AT RIGHT ANGLES.
3. FOR ACTUAL ASSEMBLY REFER TO ASSEMGLY DRAWINGS.
4. FOR ACTUAL ITEM REQUIREMENTS REFER TO D-DT-3015 SAP. No.

SAP MATERIAL No.:	0163868
SHORT DESCRIPTION:	ROD THRDD:M6-1.0-6g; LG 500 MM D3015

TECH. DESCRIPTION:

ROD, THREADED: DIAMETER: M6-1.0-6g; LG 500 MM;
THREAD: M6-1.0-6G; LENGTH: 500 MM;
MATERIAL: STL; ELECTROPLATING (EP): MINIMUM PLATING THICKNESS 12 MICRO METER;
GRADE: SAE 1008, 070M20; NO CHAMFER REQUIRED IF < ≤ 6 MM,
COMPLETE WITH TWO M6 FLAT SQUARE WASHERS (D-DT-3014) AND M6 FOUR HEX NUTS (D-DT-3173),
PACKAGING: M6X500 RUNNING STUDS SUPPLIED UNASSEMBLED;
49 RODS TO BE WRAPPED TOGETHER,
ONE ROD TO BE RUN THROUGH 50MM SQ WASHERS WITH
ONE NUT EACH END TO SECURE WASHERS TO ROD,
ONE PACKET WITH 198 NUTS SEALED, ALL TO BE BUNDLED TOGETHER, SECURED,
THEN ALL PACKED IN A PLASTIC PACKAGING AND CLOSED ;
ESKOM DRAWING No. D-DT-3015 *

ITEM	:-	ROD THREADED
MATERIAL SPECIFICATION	:-	GRADE SAE 1008 STEEL, GRADE 070M20 STEEL BS970
CORROSION SPECIFICATION	:-	SANS 2081
STANDARD SPECIFICATION	:-	SANS 1700
ESKOM SPECIFICATION	:-	
TEST & CERTIFICATION REQUIREMENTS	:-	TYPE TEST ACCORDING TO SANS 1700-5-1, (THREAD PULL TEST ONLY) SANS 61284

INSPECTION	Yes	No	ESKOM RELEASE NOTE	Yes	No

IDENTIFICATION:- INDELIBLE MANUFACTURES TRADEMARK & PART No. ON ALL ITEMS

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	REF. DWGS
28	UPDATE TECH. DESCRIPTION AND SPECIFICATIONS.	J.S.	L. CHRISTIAANS	V. SINGH	30.08.2023	
27	SANS 2081 METALLIC COATINGS FOR 0163868 M6 ROD ONLY	P.A.T.	J. BLAAUW	B. MCLAREN	14.12.2018	
26	0163868 PACKAGING FOR M6x500 THREADED ROD CHANGED AND 0163789, 0163782, 0163864 SHORT AND TECHNICAL DESCRIPTIONS CHANGED FROM STUD TO ROD	P.A.T.	B. HILL	B. HILL	27.11.2015	

AUTH:	S.A.CILLIERS	DATE:	MARCH 93	SCALE NTS	Eskom	SAP No: 0163868	
CHKD:		DATE:		CAD REF: SERIES 3000		SET	SHEET / REV
DRAWN:	R.V.R.	DATE:	14-09-92	FILE No: 3015	D-DT-3015	6	1 / 28

Unique Identifier:204-48887441 Revision 1

SPEC SHEET

SAP MATERIAL No.:	0163869
SHORT DESCRIPTION:	ROD THRDD:M12-1.75-6g; LG 350 MM D3015

TECH. DESCRIPTION:

ROD, THREADED: DIAMETER: M12-1.75-6g; LG 350 MM;
THREAD: M12-1.75-6G; LENGTH: 350 MM;
MATERIAL: STL HOT DIPPED GALVANISED; GRADE: SAE1008, 070M20;
CHAMPER 1.75 X 45 DEG; COMPLETE WITH TWO M12 FLAT SQUARE WASHERS (D-DT-3014)
AND M12 FOUR HEXAGON NUTS (D-DT-3173),
PACKAGING: NUTS AND WASHERS TO BE RUN ONTO 25 PCT EACH END;
ESKOM DRAWING No. D-DT-3015 *

ITEM	:-	ROD THREADED
MATERIAL SPECIFICATION	:-	GRADE SAE 1008 STEEL, GRADE 070M20 STEEL BS970
CORROSION SPECIFICATION	:-	SANS 121
STANDARD SPECIFICATION	:-	SANS 1700
ESKOM SPECIFICATION	:-	
TEST & CERTIFICATION REQUIREMENTS	:-	TYPE TEST ACCORDING TO SANS 1700-5-1, (THREAD PULL TEST ONLY) SANS 61284, 240-60777474

INSPECTION	Yes	No	ESKOM RELEASE NOTE	Yes	No

IDENTIFICATION:- INDELIBLE MANUFACTURES TRADEMARK & PART No. ON ALL ITEMS

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	REF. DWGS
28	UPDATE TECH. DESCRIPTION AND SPECIFICATIONS.	J.S.	L. CHRISTIAANS	V. SINGH	30.08.2023	
27	SANS 2081 METALLIC COATINGS FOR 0163868 M6 ROD ONLY	P.A.T.	J. BLAAUW	B. MCLAREN	14.12.2018	
26	0163868 PACKAGING FOR M6x500 THREADED ROD CHANGED AND 0163789, 0163782, 0163864 SHORT AND TECHNICAL DESCRIPTIONS CHANGED FROM STUD TO ROD	P.A.T.	B. HILL	B. HILL	27.11.2015	

AUTH:	S.A.CILLIERS	DATE:	MARCH 93	SCALE NTS	Eskom	SAP No: 0163869	
CHKD:		DATE:		CAD REF: SERIES 3000	D-DT-3015	SET 6	SHEET 2 / REV 28
DRAWN:	R.V.R.	DATE:	14-09-92	FILE No: 3015			

SPEC SHEET

SAP MATERIAL No.:	0163789
SHORT DESCRIPTION:	ROD THRDD:M16-2.0-6g; LG 200MM D3015

TECH. DESCRIPTION:

ROD, THREADED: DIAMETER: M16-2.0-6g; LG 200MM;
THREAD: M16-2.0-6G; LENGTH: 200 MM;
MATERIAL: STL HOT DIPPED GALVANISED; GRADE: SAE 1008, 070M20;
CHAMFER 2 X 45 DEG; COMPLETE WITH TWO M16 FLAT SQUARE WASHER (D-DT-3014)
AND FOUR M16 HEX NUTS (D-DT-3173),
PACKING: NUTS AND WASHERS TO BE RUN ONTO ROD 25 PCT EACH END;
ESKOM DRAWING No. D-DT-3015 * (S) *

SAP MATERIAL No.:	0163782
SHORT DESCRIPTION:	ROD THRDD:M16-2.0-6g; LG 250MM D3015

TECH. DESCRIPTION:

ROD, THREADED: DIAMETER: M16-2.0-6g; LG 250MM;
THREAD: M16-2-6 G; LENGTH: 250 MM;
MATERIAL: STL HOT DIPPED GALVINISED; GRADE: SAE 1008, 070M20;
CHAMFER 2 X 45 DEG, COMPLETE WITH TWO FLAT M16 SQUARE WASHER,
TWO M16 SPRING WASHERS (D-DT-3014) AND TWO M16 HEX NUTS (D-DT-3173),
PACKAGING: NUTS AND WASHERS TO BE RUN ONTO ROD 25 PCT EACH END,
ESKOM DRAWING No. D-DT-3015 * (S)

SAP MATERIAL No.:	0163783
SHORT DESCRIPTION:	ROD THRDD:M16-2.0-6g; LG 350 MM D3015

TECH. DESCRIPTION:

ROD, THREADED: DIAMETER: M16-2.0-6g; LG 350 MM;
THREAD: M16-2-6G; LENGTH: 350 MM;
MATERIAL: STL HOT DIPPED GALVANISED; GRADE: SAE1008, 070M20;
CHAMPER 2 X 45 DEG, COMPLETE WITH TWO M16 FLAT SQUARE WASHER,
TWO M16 SPRING WASHERS (D-DT-3014) AND M16 TWO HEX NUTS (D-DT-3173),
PACKAGING: NUTS AND WASHERS TO BE RUN ONTO 25 PCT EACH END;
ESKOM DRAWING No. D-DT-3015 * (S)

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	REF. DWGS
28	UPDATE TECH. DESCRIPTION AND SPECIFICATIONS.	J.S.	L. CHRISTIAANS	V. SINGH	30.08.2023	
27	SANS 2081 METALLIC COATINGS FOR 0163868 M6 ROD ONLY	P.A.T.	J. BLAAUW	B. MCLAREN	14.12.2018	
26	0163868 PACKAGING FOR M6x500 THREADED ROD CHANGED AND 0163789, 0163782, 0163864 SHORT AND TECHNICAL DESCRIPTIONS CHANGED FROM STUD TO ROD	P.A.T.	B. HILL	B. HILL	27.11.2015	

AUTH:	S.A.CILLIERS	DATE:	MARCH 93	SCALE NTS	Eskom	SAP No: 0163789 0163782	0163783
CHKD:		DATE:		CAD REF: SERIES 3000	D-DT-3015	SET 6	SHEET 3 / REV 28
DRAWN:	R.V.R.	DATE:	14-09-92	FILE No: 3015			

SPEC SHEET

SAP MATERIAL No.:	0163864
SHORT DESCRIPTION:	ROD THRDD:M20-2.5-6g; LG 250 MM D3015

TECH. DESCRIPTION:

ROD, THREADED: DIAMETER: M20-2.5-6g; LG 250 MM;
THREAD: M20-2.5-6G; LENGTH: 250 MM;
MATERIAL: STL HOT DIPPED GALVANISED; GRADE: SAE 1008, 070M20;
CHAMPHER 2.5 X 45 DEG, COMPLETE WITH TWO M20 CURVED WASHERS,
FOUR M20 ROUND FLAT WASHERS, THREE M20 SPRING WASHERS (D-DT-3014),
FOUR M20 HEX NUTS (D-DT-3173) AND ONE BONDING CLIP (D-DT-3033);
PACKAGING: NUTS AND WASHERS TO BE RUN ONTO ROD 25 PCT EACH END;
ESKOM DRAWING No. D-DT-3015 *

SAP MATERIAL No.:	0163790
SHORT DESCRIPTION:	ROD THRDD:M20-2.5-6g; LG 350 MM D3015

TECH. DESCRIPTION:

ROD, THREADED: DIAMETER: M20-2.5-6g; LG 350 MM;
THREAD: M20-2.5-6G; LENGTH: 350 MM;
MATERIAL: STL HOT DIPPED GALVANISED;
GRADE: SAE 1008, 070M20;
CHAMPHER 2.5 X 45 DEG, COMPLETE WITH TWO M20 CURVED WASHERS,
FOUR M20 ROUND FLAT WASHERS, THREE M20 SPRING WASHERS (D-DT-3014),
FOUR M20 HEX NUTS (D-DT-3173) AND ONE BONDING CLIP (D-DT3033);
PACKAGING: NUTS AND WASHERS TO BE RUN ONTO 25 PCT EACH END;
ESKOM DRAWING No. D-DT-3015 * (S) *

SAP MATERIAL No.:	0163862
SHORT DESCRIPTION:	ROD THRDD:M20-2.5-6g;LG 450 MM D3015

TECH. DESCRIPTION:

ROD, THREADED: DIAMETER: M20-2.5-6g;LG 450 MM;
THREAD: M20-2.5-6G; LENGTH: 450 MM;
MATERIAL: STL HOT DIPPED GALVANISED;
GRADE: SAE 1008, 070M20; CHAMPER 2.5 X 45 DEG,
COMPLETE WITH TWO M20 CURVED WASHERS, FOUR M20 ROUND FLAT WASHERS,
THREE M20 SPRING WASHERS (D-DT-3014), FOUR M20 HEX NUTS (D-DT-3173) AND ONE BONDING
CLIP (D-DT-3033); PACKING: NUTS AND WASHERS TO BE RUN ONTO 25 PCT EACH END;
ESKOM DRAWING No. D-DT-3015 *

SAP MATERIAL No.:	0163865
SHORT DESCRIPTION:	ROD THRDD:M20-2.5-6g;LG 600 MM D3015

TECH. DESCRIPTION:

ROD, THREADED: DIAMETER: M20-2.5-6g;LG 600 MM;
THREAD: M20-2.5-6G; LENGTH: 600 MM;
MATERIAL: STL HOT DIPPED GALVANISED;
GRADE: SAE 1008, 070M20; CHAMPER 2.5 X 45 DEG,
COMPLETE WITH FOUR M20 CURVED WASHERS, SIX M20 ROUND FLAT WASHERS,
FIVE M20 SPRING WASHERS (D-DT-3014), SEVEN M20 HEX NUTS (D-DT-3173) AND ONE BONDING
CLIP (D-DT-3033); PACKAGING: NUTS AND WASHERS TO BE RUN ONTO 25 PCT EACH END;
ESKOM DRAWING No. D-DT-3015 *

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	REF. DWGS
28	UPDATE TECH. DESCRIPTION AND SPECIFICATIONS.	J.S.	L. CHRISTIAANS	V. SINGH	30.08.2023	
27	SANS 2081 METALLIC COATINGS FOR 0163868 M6 ROD ONLY	P.A.T.	J. BLAAUW	B. MCLAREN	14.12.2018	
26	0163868 PACKAGING FOR M6x500 THREADED ROD CHANGED AND 0163789, 0163782, 0163864 SHORT AND TECHNICAL DESCRIPTIONS CHANGED FROM STUD TO ROD	P.A.T.	B. HILL	B. HILL	27.11.2015	

AUTH:	S.A.CILLIERS	DATE:	MARCH 93	SCALE NTS	Eskom	SAP No: 0163864 0163790	0163862 0163865
CHKD:		DATE:		CAD REF: SERIES 3000	D-DT-3015	SET 6	SHEET 4 / REV 28
DRAWN:	R.V.R.	DATE:	14-09-92	FILE No: 3015			

Unique Identifier:204-48887441 Revision 1

SPEC SHEET

SAP MATERIAL No.:	0182711
SHORT DESCRIPTION:	ROD THRDD:M20-2.5-6g; LG 750 MM D3015

TECH. DESCRIPTION:

ROD, THREADED: DIAMETER: M20-2.5-6g; LG 750 MM D3015;
THREAD: M20-2.5-6G; LENGTH: 750 MM;
MATERIAL: STL HOT DIPPED GALVANISED; GRADE: SAE1008, 070M20;
CHAMPER 2.5 X 45 DEG, COMPLETE WITH FOUR M20 CURVED WASHERS,
SIX M20 ROUND FLAT WASHERS, FIVE M20 SPRING WASHERS (D-DT-3014),
SEVEN M20 HEX NUTS (D-DT-3173) AND ONE BONDING CLIP (D-DT-3033);
PACKAGING: NUTS AND WASHERS TO BE RUN ONTO 25 PCT EACH END;
ESKOM DRAWING No. D-DT-3015 *

SAP MATERIAL No.:	0220714
SHORT DESCRIPTION:	ROD THRDD:M20-2.5-6g; LG 1 M D3015

TECH. DESCRIPTION:

ROD, THREADED: DIAMETER: M20-2.5-6g; LG 1 M D3015;
THREAD: M20-2.5-6G; LENGTH: 1.0 M;
MATERIAL: STL HOT DIPPED GALVANISED; GRADE: SAE 1008, 070M20;
CHAMPER 2.5 X 45 DEG, COMPLETE WITH M20 FOUR CURVED WASHERS,
SIX M20 ROUND FLAT WASHERS, FIVE M20 SPRING WASHERS (D-DT-3014),
SEVEN M20 HEXAGON NUTS (D-DT-3173) AND ONE BONDING CLIP (D-DT-3033);
PACKAGING: NUTS AND WASHERS TO BE RUN ONTO 25 PCT EACH END;
ESKOM DRAWING No. D-DT-3015 *

SAP MATERIAL No.:	0185178
SHORT DESCRIPTION:	ROD THRDD:M24-3-6g; LG 350 MM D3015

TECH. DESCRIPTION:

ROD, THREADED: DIAMETER: M24-3-6g; LG 350 MM D3015;
THREAD: M24-3-6G; LENGTH: 350 MM;
MATERIAL: STL HOT DIPPED GALVANISED; GRADE: SAE 1008, 070M20;
CHAMPER 3 X 45 DEG, COMPLETE WITH M24 FOUR FLAT ROUND WASHERS (D-DT-3014)
AND FOUR M24 HEXAGON NUTS (D-DT-3173),
PACKAGING: NUTS AND WASHERS TO BE RUN ONTO 25 PCT EACH END;
ESKOM DRAWING No. D-DT-3015 *

SAP MATERIAL No.:	0185179
SHORT DESCRIPTION:	ROD THRDD:M24-3-6g; LG 500 MM D3015

TECH. DESCRIPTION:

ROD, THREADED: DIAMETER: M24-3-6g; LG 500 MM;
THREAD: M24-3-6G; LENGTH: 500 MM;
MATERIAL: STL HOT DIPPED GALVANISED; GRADE: SAE 1008, 070M20;
CHAMPER 3 X 45 DEG, COMPLETE WITH FOUR M24 FLAT ROUND WASHERS (D-DT-3014)
AND FOUR M24 HEX NUTS (D-DT-3173),
PACKAGING: NUTS AND WASHERS TO BE RUN ONTO 25 PCT EACH END;
ESKOM DRAWING No. D-DT-3015 *(S) *

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	REF. DWGS
28	UPDATE TECH. DESCRIPTION AND SPECIFICATIONS.	J.S.	L. CHRISTIAANS	V. SINGH	30.08.2023	
27	SANS 2081 METALLIC COATINGS FOR 0163868 M6 ROD ONLY	P.A.T.	J. BLAAUW	B. MCLAREN	14.12.2018	
26	0163868 PACKAGING FOR M6x500 THREADED ROD CHANGED AND 0163789, 0163782, 0163864 SHORT AND TECHNICAL DESCRIPTIONS CHANGED FROM STUD TO ROD	P.A.T.	B. HILL	B. HILL	27.11.2015	

AUTH:	S.A.CILLIERS	DATE:	MARCH 93	SCALE NTS	Eskom	SAP No: 0182711 0220714	0185178 0185179
CHKD:		DATE:		CAD REF: SERIES 3000	D-DT-3015	SET 6	SHEET 5 / REV 28
DRAWN:	R.V.R.	DATE:	14-09-92	FILE No: 3015			

SPEC SHEET

SAP MATERIAL No.:	0216928
SHORT DESCRIPTION:	ROD THRDD:M24-3-6g; LG 650 MM D3015

TECH. DESCRIPTION:

ROD, THREADED: DIAMETER: M24-3-6g; LG 650 MM;
THREAD: M24-3-6G; LENGTH: 650 MM;
MATERIAL: STL HOT DIPPED GALVANISED; GRADE: SAE 1008, 070M20;
CHAMPER 3 X 45 DEG, COMPLETE WITH FOUR M24 FLAT ROUND WASHERS (D-DT-3014)
AND FOUR M24 HEXAGON NUTS (D-DT-3173),
PACKAGING: NUTS AND WASHERS TO BE RUN ONTO 25 PCT EACH END;
ESKOM DRAWING No. D-DT-3015 * (S)

SAP MATERIAL No.:	0216929
SHORT DESCRIPTION:	ROD THRDD:M24-3-6g; LG 1.0 M D3015

TECH. DESCRIPTION:

ROD, THREADED: DIAMETER: M24-3-6g; LG 1.0 M;
THREAD: M24-3-6G; LENGTH: 1.0 M;
MATERIAL: STL HOT DIPPED GALVANISED; GRADE: SAE 1008, 070M20;
CHAMPER 3 X 45 DEG, COMPLETE WITH FOUR M24 FLAT ROUND WASHERS (D-DT-3014)
AND FOUR M24 HEX NUTS (D-DT-3173),
PACKAGING: NUTS AND WASHERS TO BE RUN ONTO 25 PCT EACH END;
ESKOM DRAWING No. D-DT-3015 * (S)*

SAP MATERIAL No.:	0214091
SHORT DESCRIPTION:	ROD THRDD:M24-3-6g; LG 1.2 M D3015

TECH. DESCRIPTION:

ROD, THREADED: DIAMETER: M24-3-6g; LG 1.2 M; THREAD: M24-3-6G; LENGTH: 1.2 M;
MATERIAL: STL HOT DIPPED GALVANISED;
GRADE: SAE 1008, 070M20; CHAMPER 3 X 45 DEG,
COMPLETE WITH FOUR M24 FLAT ROUND WASHERS (D-DT-3014) AND
FOUR M24 HEX NUTS (D-DT-3173),
PACKAGING: NUTS AND WASHERS TO BE RUN ONTO 25 PCT EACH END;
ESKOM DRAWING No. D-DT-3015 * (S)*

SAP MATERIAL No.:	0219213
SHORT DESCRIPTION:	ROD THRDD:M24-3-6g; LG 1.3 M D3015

TECH. DESCRIPTION:

ROD, THREADED: DIAMETER: M24-3-6g; LG 1.3 M;
THREAD: M24-3-6G; LENGTH: 1.3 M;
MATERIAL: STL HOT DIPPED GALVANISED; GRADE: SAE 1008, 070M20;
CHAMPER 3 X 45 DEG, COMPLETE WITH FOUR M24 FLAT ROUND WASHERS (D-DT-3014)
AND FOUR M24 HEX NUTS (D-DT-3173),
PACKAGING: NUTS AND WASHERS TO BE RUN ONTO 25 PCT EACH END;
ESKOM DRAWING No. D-DT-3015 * (S)

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	REF. DWGS
28	UPDATE TECH. DESCRIPTION AND SPECIFICATIONS.	J.S.	L. CHRISTIAANS	V. SINGH	30.08.2023	
27	SANS 2081 METALLIC COATINGS FOR 0163868 M6 ROD ONLY	P.A.T.	J. BLAAUW	B. MCLAREN	14.12.2018	
26	0163868 PACKAGING FOR M6x500 THREADED ROD CHANGED AND 0163789, 0163782, 0163864 SHORT AND TECHNICAL DESCRIPTIONS CHANGED FROM STUD TO ROD	P.A.T.	B. HILL	B. HILL	27.11.2015	

AUTH:	S.A.CILLIERS	DATE:	MARCH 93	SCALE NTS	Eskom	SAP No: 0216928 0216929 0214091 0219213
CHKD:		DATE:		CAD REF: SERIES 3000	D-DT-3015	SET 6 / SHEET 6 / REV 28
DRAWN:	R.V.R.	DATE:	14-09-92	FILE No: 3015		