

CHANGE CONTROL SHEET

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REL CLASS	DISTR CODE	REVISIONS			
PROD	-	CHANGE	DESCRIPTION	DATE (YYYY-MM-DD)	APPROVED
		-	INITIAL RELEASE	2019-03-01	R.B.
		A	SEE DCN	2019-05-31	R.B.
		B	SEE DCN	2019-11-20	R.B.
		C	SEE DCN	2019-12-16	R.B.
		D	SEE DCN	2020-06-05	R.B.
		E	SEE DCN	2020-07-31	J.P.
		F	SEE DCN	<u>2020-12-01</u>	<u>JP</u>

MATERIAL			DATE (YYYY-MM-DD)
-		DRAWN	J.YORBA 2019-02-14
HEAT TREAT		CHECKED	<i>R. Cannon</i> 2019-02-28
		OTHER	
FINISH		PROJ APPVL	<i>James Jordan</i> 2019-02-28
		PROJ SUPER.	
-	-	APPROVAL	<i>Adm</i> 2019-02-28
NEXT ASSY	USED ON	MFG ENG.	<i>BLP/Hgg</i> 2019-02-28
FIRST APPLICATION		QA APPVL	<i>ADP</i> Feb 28 2019

MEGGITT

Meggitt (North Hollywood), Inc.
 12838 Saticoy Street North Hollywood, California 91605

TITLE:

STANDARD SUBSTITUTION SPECIFICATION

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STANDARD SUBSTITUTION SPECIFICATION

1. SCOPE

1.1 Scope. This specification authorizes the substitution of process and standard specifications listed herein for all production programs, unless otherwise specified on the drawing or by contract.

1.2 Acceptable Substitutions. Items noted as acceptable substitutions are either superseding specifications or approved alternatives. The original specification identified on the drawing is always the preferred option.

2. MATERIAL SUBSTITUTION AUTHORIZATION

Table 1 – Material Substitution Table

SPECIFICATION	STATUS	DESCRIPTION	ACCEPTABLE SUBSTITUTIONS	NOTES
AN960	Superseded	Washer, Flat	NAS1149	
DC1292	Discontinued	Lubricating Grease	Molykote 3451	
Dow Corning 1292	Discontinued	Lubricating Grease	Molykote 3451	
JIS G 4314	Active	Stainless Steel Wires for Springs	AMS 5678	
MIL-A-21180	Cancelled	Aluminum-Alloy Castings, High Strength	AMS-A-21180	
MIL-R-25988	Superseded	Rubber, Fluorosilicone Elastomer, Oil, Fuel	MIL-DTL-25988	
MIL-P-46174	Cancelled	Plastic Molding Material, Polyphylene Sulfide, Glass Fiber Reinforced	ASTM D4067	See ASTM D4067 Appendix for Cross Reference from MIL-P- 46174 to ASTM Classification System D4067
MIL-P-997	Cancelled	Plastic Material, Laminated, Thermosetting, Electrical Insulation: Sheets, Glass Cloth, Silicone Resin	MIL-I-24768/17	
MIL-M-14	Cancelled	Mold Compounds, Thermosetting	ASTM D5948	
MIL-S-18729	Superseded	Steel Plate, Sheet, and Strip, Alloy 4130, Aircraft Quality	AMS 6350	Substitution applies to Condition "A"
MIL-S-18729	Superseded	Steel Plate, Sheet, and Strip, Alloy 4130, Aircraft Quality	AMS 6351	Substitution applies to Condition "MA"

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SPECIFICATION	STATUS	DESCRIPTION	ACCEPTABLE SUBSTITUTIONS	NOTES
MIL-S-18729	Superseded	Steel Plate, Sheet, and Strip, Alloy 4130, Aircraft Quality	AMS 6345	Substitution applies to Condition "N"
MIL-S-5059 For CRES 301	Cancelled	Steel, Corrosion Resistant (18-8) Plate, Sheet and Strip	Annealed: AMS 5901 1/4 Hard: AMS 5517 1/2 Hard: AMS 5518 3/4 Hard: AMS 5902 Full Hard: AMS 5519	
MIL-S-5059 For CRES 302	Cancelled	Steel, Corrosion Resistant (18-8) Plate, Sheet and Strip	Annealed: AMS 5516 1/4 Hard: AMS 5903 1/2 Hard: AMS 5904 3/4 Hard: AMS 5905 Full Hard: AMS 5906	
MIL-S-5059 For CRES 304	Cancelled	Steel, Corrosion Resistant (18-8) Plate, Sheet and Strip	Annealed: AMS 5513 1/4 Hard: AMS 5910 1/2 Hard: AMS 5911 3/4 Hard: AMS 5912 Full Hard: AMS 5913	
MIL-S-5059 For CRES 316	Cancelled	Steel, Corrosion Resistant (18-8) Plate, Sheet and Strip	Annealed: AMS 5524 1/4 Hard: AMS 5907	
MIL-S-7720 For CRES 303Se	Superseded	Steel, Corrosion-Resistant (18-8) Bars, Wire and Forging Stock	AMS 5640 Type 2	
Molykote 1292	Discontinued	Lubricating Grease	Molykote 3451	
QQ-A-250	Cancelled	General Specification for Aluminum and Aluminum Alloy Plate and Sheet	AMS-QQ-A-250	Specifications contain "slashes" from /1 to /30, which must be the same
QQ-B-613	Cancelled	Brass, Leaded and Nonleaded: Flat Products (Plate, Bar, Sheet, and Strip)	Comp 1: ASTM B36/B36M, Alloy C26800 Comp 2: ASTM B36/B36M, Alloy C26000	
QQ-B-626	Cancelled	Brass, Leaded and Nonleaded: Rod, Shapes, Forgings, and Flat Products with Finished Edges (Bar and Strip)	Comp 260: ASTM B36/B36M, Alloy C26000 Comp 268: ASTM B36/B36M, Alloy C26800 Comp 360: ASTM B16/B16M, Alloy C36000	
QQ-C-533	Cancelled	Copper-Beryllium Alloy Strip (Copper Alloy 170 and 172)	Alloy 170: ASTM B194, Alloy C17000 Alloy 172: ASTM B194, Alloy C17200	See QQ-C-533B Cancellation Notice for Alloy and Temper Supersession Table

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SPECIFICATION	STATUS	DESCRIPTION	ACCEPTABLE SUBSTITUTIONS	NOTES
QQ-S-766 For CRES 301	Superseded	Steel, Stainless and Heat Resisting, Alloys, Plate, Sheet and Strip	1/4 Hard: AMS 5517 1/2 Hard: AMS 5518 Full Hard: AMS 5519	
QQ-S-766 For CRES 301	Superseded	Steel, Stainless and Heat Resisting, Alloys, Plate, Sheet and Strip	ASTM A666	If specified, material shall match the temper (Annealed, 1/4, 1/2, 3/4, or Full Hard)
QQ-W-423 For CRES 302	Superseded	Wire, Steel, Corrosion-Resisting	Condition A – Annealed: ASTM A580 Condition B – Spring Temper: ASTM A313	

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3. PROCESS SUBSTITUTION AUTHORIZATION

Table 2 – Process Substitution Table

SPECIFICATION	STATUS	DESCRIPTION	ACCEPTABLE SUBSTITUTIONS	NOTES
AMS-H-6088	Cancelled	Heat Treatment of Aluminum Alloys	Parts: AMS 2770 Conversion of Raw Material Temper: AMS 2770 Castings: AMS 2771 Raw Materials: AMS 2772	
AMS-QQ-P-35 Method 1 or No Method Specified	Cancelled	Passivation of Corrosion Resistant Steels	AMS 2700, Method 1, Type and Class Optional	If Type and Class are specified, they shall be maintained
AMS-QQ-P-35 Method 2	Cancelled	Passivation of Corrosion Resistant Steels	AMS 2700, Method 2	
AMS-STD-2175	Cancelled	Classification and Inspection of Castings	AMS 2175	
EPRO116	Superseded	Electroless Nickel Plating Process of Ferrous Alloys and Copper Alloys	SPS757	
EPRO144	Superseded	Instruction for the Fitting of Wire Thread Inserts	SPS760	
EPRO206	Superseded	Lubrication of Threads and O-Ring Seals on Assembly	SPS769	
EPRO213	Superseded	Stress Relieving and De-embrittlement of Steels Subjected to Plating	SPS772	
EPRO227	Superseded	Passivation of Stainless Steels	SPS774	
EPRO235	Superseded	Pre Plate Machining, Chromium Plating and Final Grinding of Stainless Steel	SPS775	
EPRO238	Superseded	Degreasing and Ultrasonic Cleaning	SPS776	
EPRO276	Superseded	Hard Anodizing	SPS781	
EPRO295	Superseded	Alocrom 1200 and Alodine 1200 Treatment	SPS784	

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SPECIFICATION	STATUS	DESCRIPTION	ACCEPTABLE SUBSTITUTIONS	NOTES
EPRO1001	Superseded	Manual Tig Welding of Steel Blanking Plugs	SPS790	
EPRO1003	Superseded	Laser Marking	SPS792	
EPRO1006	Superseded	Retimet Cleanliness	SPS795	
EPRO1013	Superseded	Application of Anaerobic Adhesives	SPS800	
EPRO1025	Superseded	Fusion Welding	SPS805	
EPRO1028	Superseded	Format of Identification Markings	SPS808	
EPRO1038	Superseded	Sub-Assembly Instructions	SPS817	
MIL-C-13924	Cancelled	Coating, Oxide, Black, for Ferrous Metals	MIL-DTL-13924	
MIL-C-5541	Superseded	Chemical Conversion Coatings on Aluminum and Aluminum Alloys	MIL-DTL-5541	
MIL-C-6021	Cancelled	Classification and Inspection of Castings	AMS-STD-2175 or AMS 2175	
MIL-H-6088	Cancelled	Heat Treatment of Aluminum Alloys	AMS-H-6088 or Parts: AMS 2770 Conversion of Raw Material Temper: AMS 2770 Castings: AMS 2771 Raw Materials: AMS 2772	AMS-H-6088 is obsolete, but acceptable to use by substitution
MIL-H-6875	Cancelled	Heat Treatment of Steel Raw Materials	AMS-H-6875	
MIL-P-19834	Superseded	Adhesive Backed General Specification for Plates, Identification or Instruction, Metal Foil	MIL-DTL-19834	
MIL-STD-1949	Cancelled	Inspection, Magnetic Particle	ASTM E1444/E1444M	
QQ-P-35, Method 1 or No Method Specified	Cancelled	Passivation of Corrosion Resistant Steels	AMS-QQ-P-35, Method 1 or AMS 2700, Method 1	If Type and Class are specified, they shall be maintained. AMS-QQ-P-35 is obsolete, but acceptable to use by substitution
QQ-P-35, Method 2	Cancelled	Passivation of Corrosion Resistant Steels	AMS-QQ-P-35, Method 2 or AMS 2700, Method 2	AMS-QQ-P-35 is obsolete, but acceptable to use by substitution

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SPECIFICATION	STATUS	DESCRIPTION	ACCEPTABLE SUBSTITUTIONS	NOTES
QQ-P-416	Cancelled	Plating, Cadmium (Electrodeposited)	AMS-QQ-P-416	If Type is not specified, Type II shall be used. Older revisions of QQ-P-416 contain Classes A, B, and C. Current equivalents are Classes 1, 2, and 3, respectively.
EPRO1020	Superseded	Safety Cable	SPS802	
MIL-B-7883	Cancelled	Brazing	<p>For MIL-B 7883 Type I (Torch Brazing) use AWS C3.4</p> <p>For MIL-B 7883 Type II, Grade A (Furnace Brazing) use AWS C3.6, Class A or B</p> <p>For MIL-B 7883 Type II, Grade B (Furnace Brazing) use AWS C3.6, Class C</p> <p>For MIL-B 7883 Type III (Induction Brazing) use AWS C3.5</p> <p>For MIL-B 7883 Type V (Dip, Torch and Furnace Brazing of Aluminum Alloys) use AWS C3.7</p>	

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4. COVENTRY TRANSFER ASSEMBLY INSTRUCTIONS

4.1 This section defines acceptable substitute assembly instructions at Meggitt (North Hollywood) for products transferred from Meggitt (Coventry).

Table 3 – Meggitt Assembly Instructions

COVENTRY P/N	COVENTRY ASSEMBLY INSTRUCTIONS	NORTH HOLLYWOOD ASSEMBLY INSTRUCTIONS
A-1005-01	EDU196-042	SWI A-1005-01
A-1032-00	EDU1050-001	SWI A-1032-00
AA1024-01	EDU1059-007	SWI AA1024-01
AA1051-00	EDU1014-001	SWI AA1051-00
AA1052-00	EDU226-086	SWI AA1052-00
AA1060-00	EDU1014-007	SWI AA1060-00
AA1076-01	EDU1040-099	SWI AA1076-01
AA1077-02	EDU1039-008	SWI AA1077-02
AA1107-00	EDU1180-003	SWI AA1107-00
AA1111-00	EDU1251-149	SWI AA1111-00
AA1120-00	EDU1281-024	SWI AA1120-00
AC65146	ACM27794	SWI AC65146
AC69576	ACM30621	SWI AC69576
AC69588	ACO46561	SWI AC69588
AC69590	ACO46377	SWI AC69590
AC69674	ACM30811	SWI AC69674
EA100118G	EC101200	SWI EA100118G
EA100377B	ACM30674	SWI EA100377B
EA100433C	EDU1064-001	SWI EA100433C
EA100435D	EDU1293-008	SWI EA100435D
EA100716E	EDU084-31	SWI EA100716E
EA100716E	EDU084-31	SWI EA100716E
EA101780B	EDU180-40	SWI EA101780B
EA101881H	EDU182-587	SWI EA101881H
EB100045E	ED100394	SWI EB100045E
EB100060B	ED100091	SWI EB100060B
EB100256D	ED100282	SWI EB100256D
EB100258D	ED100282	SWI EB100258D
EB100420D	ED100282	SWI EB100420D
EB100906B	EDU098-1	SWI EB100906B
EB101586C	EDU154-042	SWI EB101586C
EB101729C	EDU130-474	SWI EB101729C
EB101857C	EDU184-02	SWI EB101857C

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COVENTRY P/N	COVENTRY ASSEMBLY INSTRUCTIONS	NORTH HOLLYWOOD ASSEMBLY INSTRUCTIONS
EB101936C	EDU177-033	SWI EB101936C
EB102003F	EDU183-093	SWI EB102003F
EB102732E	EDU220-042	SWI EB102732E
EB103025E	EDU247-033	SWI EB103025E
BB1003-01	EDU1065-012	SWI BB1003-01
EB102442C	EDU207-004	SWI EB102442C
B-1001-00	EDU1001-001	SWI B-1001-00
AC65154	ACO42073	SWI AC65154
AC65152	ACO42072	SWI AC65152
AC69838	ACM31054	SWI AC69838
AC69926	ACM31154	SWI AC69929
B-1002-00	B-000-004	SWI B-1002-00

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5. MATERIAL AND PROCESS INDEX

5.1 Introduction. This section is a categorized index of materials and process specifications contained within SPS 718.

5.2 Materials

Aluminum

MIL-A-21180

QQ-A-250

Beryllium Copper

QQ-C-533

Brass

QQ-B-613

QQ-B-626

Lubricant

DC1292

Dow Corning 1292

Molykote 1292

Plastic Materials

AMS 3660

MIL-M-14

MIL-P-46174

MIL-P-997

Rubber Materials

MIL-R-25988

Steel

JIS G 4314

MIL-S-18729

MIL-S-5059

MIL-S-7720

QQ-S-766

QQ-W-423

Washers

AN960

5.3 Processes

Anodizing

EPRO276

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Application of Adhesives

EPRO1013

Black Oxide Coating

MIL-C-13924

Cadmium Plating

QQ-P-416

Casting Inspection

AMS-STD-2175

MIL-C-6021

Chem Film

EPRO295

MIL-C-5541

Chrome Plating Preparation

EPRO235

Degreasing

EPRO238

Heat Treatment

AMS-H-6088

EPRO213

MIL-H-6088

MIL-H-6875

Helical Coil Insert Installation

EPRO144

Identification

EPRO1003

EPRO1028

MIL-P-19834

Lubrication of Threads and O-Ring Seals

EPRO206

Magnetic Particle Inspection

MIL-STD-1949

Nickel Plating

EPRO116

Passivation

AMS-QQ-P-35

EPRO227

QQ-P-35

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Retimet Cleanliness
EPRO1006

Sub-Assembly Instructions
EPRO1038

Welding
EPRO1001
EPRO1025

6. UK TO US MATERIAL SUBSTITUTION AUTHORIZATION:

DEM CODE	UK SPECIFICATION	DESCRIPTION	US ACCEPTABLE SPECIFICATION	NOTES
DEM-0604-13-002	BS S143	CORROSION RESISTING STEEL	AMS 5643 H1100 CONDITION	Equivalent AMS specification is given in EDU252-01_iss40
DEM-0607-11-000	BS S527	CORROSION RESISTING STEEL	AMS5512	Equivalent AMS specification is given in EDU252-01_iss40
DEM-0507-13-001	BS EN10083-1.1151 - C22E / BS S 14 / BS 970 : PART 3 : 1991 : 070M20	NON-CORROSION RESISTING STEEL	ASTM A29/A29M 1020 (AISI 1020)	Equivalent specs are compared in Material Analysis sheet
DEM-0201-13-001	DTD 5014A	ALUMINIUM	AMS 4165	Equivalent AMS specification is given in EDU252-01_iss40, But AMS spec is not proven for EB Welding
DEM-0602-16-001	BS S205	CORROSION RESISTING STEEL	AMS 5688	Equivalent specs are compared in Material Analysis sheet

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DEM CODE	UK SPECIFICATION	DESCRIPTION	US ACCEPTABLE SPECIFICATION	NOTES
DEM-1002-13-000	EY9109	CARBON	-	Morganite grade Carbon
DEM-0601-13-000	BS S130	CORROSION RESISTING STEEL	AMS5646	Equivalent AMS specification is given in EDU252-01_iss40
DEM-0606-13-004	BS S145	CORROSION RESISTING STEEL	AMS 5643 H925 CONDITION	Equivalent AMS specification is given in EDU252-01_iss40
DEM-0704-11-000	-	HEAT RESISTANT ALLOY	AMS5596	Only AMS Spec is given in EDU252-01_iss40
DEM-0105-19-000	80NC - EMS002	METAL FOAM(RETIMET-80 GRADE)	-	MEGGITT Proprietary Material
DEM-0205-13-001	BS L168	ALUMINIUM	AMS4121 T6 CONDITION	Equivalent AMS specification is given in EDU252-01_iss40
DEM-0707-13-002	BS HR2	HEAT RESISTANT ALLOY	AMS5663	Equivalent AMS specification is given in EDU252-01_iss40
DEM-0708-16-000	BS HR502	HEAT RESISTANT ALLOY	AMS5829	Equivalent specs are compared in Material Analysis sheet

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DEM CODE	UK SPECIFICATION	DESCRIPTION	US ACCEPTABLE SPECIFICATION	NOTES
DEM-0714-13-001	-	HEAT RESISTANT ALLOY	AMS5662/AMS 5663	Only AMS Spec and its equivalent is given in EDU252-01_iss40
DEM-0610-13-000	BS S80	CORROSION RESISTING STEEL	AMS 5643 H1150 CONDITION	Equivalent AMS specification is given in EDU252-01_iss40
DEM-0202-13-001	EN3553	ALUMINIUM	AL Alloy 2618-T6	Equivalent specs are compared in Material Analysis sheet
DEM-0703-16-000	-	HEAT RESISTANT ALLOY	AMS5962	Only AMS Spec is given in EDU252-01_iss40
DEM-0605-13-003	BS S144	CORROSION RESISTING STEEL	AMS 5643 H1025 CONDITION	Equivalent AMS specification is given in EDU252-01_iss40
DEM-1001-13-000	EY306	CARBON	-	Morganite grade Carbon
DEM-0705-16-003	DTD5086	HEAT RESISTANT ALLOY	AMS5678	Equivalent AMS specification is given in EDU252-01_iss40
DEM-0612-26-000	BS 3111 394S17	CORROSION RESISTING STEEL	ASTM A493 (AISI 304)	Equivalent specs are compared in Material Analysis sheet

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DEM-0613-23-000	BS 970 303S31	CORROSION RESISTING STEEL	ASTM A582 S30300 (303 Stainless Steel)	Equivalent specs are compared in Material Analysis sheet
DEM-0801-13-000	-	TITANIUM	AMS4975	Only AMS Spec is given in EDU252-01_iss40
DEM-1008-13-000	JP1033	CARBON	-	Le Carbone Grade Carbon
DEM-0713-16-006	-	HEAT RESISTANT ALLOY	AMS5810	Only AMS Spec is given in EDU252-01_iss40
DEM-0619-11-000	BS S526	CORROSION RESISTING STEEL	AMS 5510	Equivalent specs are compared in Material Analysis sheet
DEM-0616-13-001	-	CORROSION RESISTING STEEL	AMS5646	Only AMS Spec is given in EDU252-01_iss40
DEM-1006-13-000	JP1000	CARBON	-	Le-Carbone Grade Carbon
DEM-2001-19-001	VITON GLT-600S	FLUROCARBON (FKM)	-	Proprietary material
DEM-2301-19-001	KALREZ 4079	PERFLURO-ELASTOMER (FFKM)	-	Proprietary material

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DEM-2203-11-001	SAMCO EXPANDED SILICONE RUBBER SPONGE SIL16	EXPANDED SILICONE RUBBER SPONGE	-	Proprietary material
DEM-2204-11-001	SAMCO VMQ SILICONE RUBBER SHEET	SILICONE ELASTOMER (VMQ NON REINFORCED)	-	Proprietary material
DEM-9904-11-001	KAPTON 300FN929	POLYIMIDE FILM	-	Proprietary material
DEM-0209-11-001	BS L157	ALUMINIUM	AMS4029 T6 CONDITION	Equivalent AMS specification is given in EDU252-01_iss40
DEM-0625-13-001	-	CORROSION RESISTING STEEL	AMS5848	Only AMS Spec is given in EDU252-01_iss40
DEM-0609-13-004	BS S145H	CORROSION RESISTING STEEL	AMS 5643 H925 CONDITION	Equivalent AMS specification is given in EDU252-01_iss40
DEM-0621-13-001	-	CORROSION RESISTING STEEL	AMS5659, H1100 Condition	Only AMS Spec is given in EDU252-01_iss40
DEM-0615-13-001	-	CORROSION RESISTING STEEL	AMS5643, H1025 Condition	Only AMS Spec is given in EDU252-01_iss40

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DEM CODE	UK SPECIFICATION	DESCRIPTION	US ACCEPTABLE SPECIFICATION	NOTES
DEM-0618-13-000	BS S80	CORROSION RESISTING STEEL	AMS5628	Equivalent specs are compared in Material Analysis sheet
DEM-2205-11-002	(VMQ VARIANT) (HIGH TEMP) BASE MATERIAL POLYDIMETHYLSILOXANE	SILICONE ELASTOMER (VMQ FOR 'O' RINGS)	-	Trelleborg Silicone (VMQ) Compound ref. 8958 Proprietary Material. Op. Temp. conditions - 64°C to +200°C cont. and max short term excursions +250°C. Shore hardness 50 +/-5.
DEM-0213-11-000	BS EN485 1050A-O CONDITION	ALUMINIUM	1050A AL Alloy	No equivalent US spec found, international designation 1050A need to be used with required heat treatment

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SUBJECT TO THE RESTRICTIONS ON THE TITLE PAGE
OF THIS DOCUMENT

DWG SIZE	CAGE CODE	DWG No.
A	79318	SPS 718
SCALE	REVISION	SHEET
-	F	17