附錄(二)

SIEMENS	TEST PROCEDURE/ TEST REPORT	Date: 2018-08-08
MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	FAT/Sample Test	page no. 1 of 2

Reference no:	
Order no:	
Tested object:	C.5987-03-J4257-S008, drop bracket
Drawing no:	C.5987-03-J4257-S008
Production lot no:	
Manufacturer:	Sugremin, Spain
Materials:	galvanized steel
Testing laboratory:	no laboratory, check performed in storage area of Frapack GmbH Nürnberg
Test specification:	EN 10204, 2006-04; EN10210-2, 2006-04, EN10029, 2010-11 DIN VDE 0216, 1986-02, ISO 2768-1, 1989-11 EN ISO 1461, 2009-08 ISO 2178, 1982-08 EN 12062, 2002-09
Performed tests:	a) Check of documents b) Visual check c) Function test for nuts d) Verification of dimensions e) Galvanizising test; could not be performed in storage area

lot size [pcs]:	ordered:	manufactured:

Repetition Test: If only one specimen failes in the performed tests b) – e) a repetition test will be necessary with twice amount of tested objects.
If a second specimen fails, the delivery lot of the tested fastening component type will not be accepted.

a) Check of Documents for Materials, Welding and Galvanizing
(Certificates from the subsuppliers for all specimens)

Test result passed:	yes:	✓	no:		
Transport papers	yes:	✓	no:		

SIEMENS	TEST PROCEDURE/ TEST REPORT	Date: 2018-08-08
MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	FAT/Sample Test	page no. 2 of 2

b) Visual Check

Test arrangement: see drawing

lot size per type [pcs] ≤	10	50	100	500
number of tested objects ≥	spot check only			

Test result:	yes:	✓	no:		remarks:
Name plate with Identification	yes:	✓	no:		
Clean surface	yes:	✓	no:		
No damages	yes:	✓	no:		

c) Function Test (Threads)

Test arrangement:	with bolt M10 to M22										
Test result:	check for specimen no.:										
passed	1	2	3	4	5	6	7	8	9	10	
yes											n.a., no threads
no											

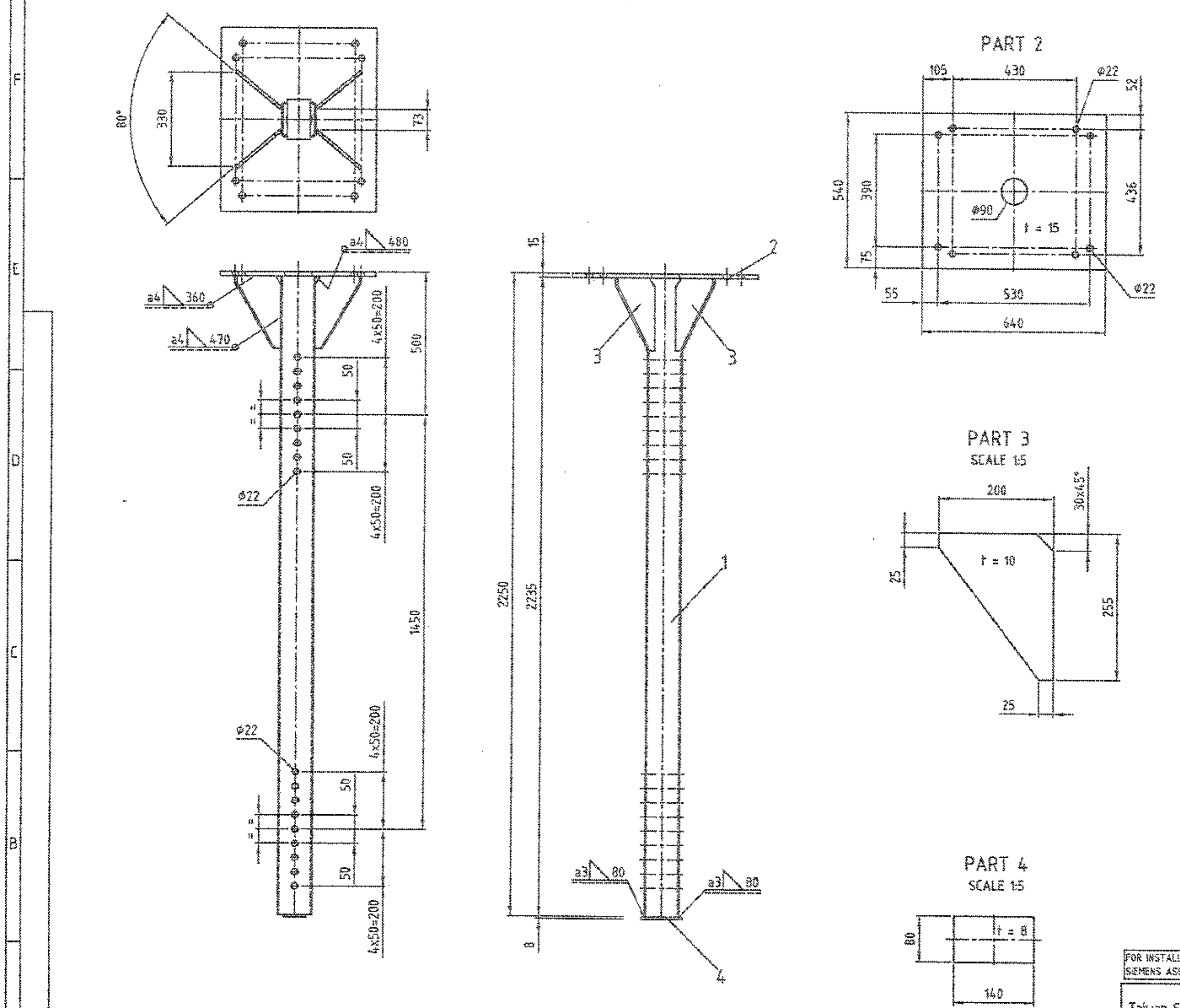
d) Verification of Dimensions:

Test arrangement: dimensions and tolerances acc. drawings (see attachment I), all dimensions with tolerance specification acc. ISO 2768-1/grade c , EN 1090-2 D.1

	check for specimen no.:										Test result:
Parameter	1	2	3	4	5	6	7	8	9	10	passed
all dimensions of drawing	ok										yes ✓
											no
remarks											

present during testing:	Siemens AG:		Manufacturer:
Test passed:	yes: ✓	no:	

SIEMENS MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	08.08.2018, Nuremberg	李 徐 董 赖
	Date and place:	Customer



MATERIAL:

PART 1: 1x HFRHS EN 10210 - 120 x 120 x 5 x 2235E
STEEL EN 10025 - S355J2
PART 2: 1x PLATE EN 10029 - 15A x 540 x 640
STEEL EN 10025 - S355J2
PART 3: 4x PLATE EN 10029 - 10A x 200 x 255
STEEL EN 10025 - S355J2
PART 4: 1x FLAT BAR EN 10058 - 80 x 8 x 140E
STEEL EN 10025 - S355J2

ALL PARTS WITH ≤ 0.19% SILICON CONTENT

WEIGHT : 95.5 KG

FREE OF BURR |-0,3

WELDING SEAMS ACC. EN ISO 5817 GRADE C

AFTER DRILLING AND WELDING HOT DIP GALVANIZED
ACC. EN ISO 1461 TZN O
LOCAL LAYER THICKNESS ≥ 85 µm

DIMENSION TOLERANCES ACC. TO EN 1090-2 D.1
ADDITIONAL TOLERANCES ACC. ISO 2768-1 GRADE C
ADDITIONAL TOLERANCES ACC. TO EN ISO 13920 B/F

EXECUTION CLASS: EXC 2 ACC. TO DS/EN 1090-2

FOR INSTALLATION USE THE CURRENT SIEMENS ASSEMBLY INSTRUCTIONS.

THIS DRAWING IS A COMPUTER PRODUCT, THEREFORE NO SIGNATURE IS REQUIRED. NO MANUAL MODIFICATIONS PERMITTED.

Taiwan Southlink

Scale: 1:10 | Weight: | Size: A2

Parts list:

	Date	Name
Drawn	01.02.18	Sprenger
Checked	01.02.18	Biege
Appr.	02.02.18	Biege

SIEMENS

DROP BRACKET 120x120x5 : L = 2250
AT CIVIL STRUCTURE

C.5987-03-J4257-S008

Rev.	Remarks	Date	Name
01	DRWG. REVISED	30.05.18	Kr
00	FIRST ISSUE	02.02.18	Spr

Sheet 1 of 1

SIEMENS	TEST PROCEDURE/ TEST REPORT	Date: 2018-08-08
MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	FAT/Sample Test	page no. 1 of 2

Reference no:	
Order no:	
Tested object:	8WL2175-4B, Steel tube 60,3mm
Drawing no:	8WL2175-4B
Production lot no:	
Manufacturer:	Sugremin, Spain
Materials:	galvanized steel
Testing laboratory:	no laboratory, check performed in storage area of Frapack GmbH Nürnberg
Test specification:	EN 10204, 2006-04; EN10210-2, 2006-04, EN10029, 2010-11 DIN VDE 0216, 1986-02, ISO 2768-1, 1989-11 EN ISO 1461, 2009-05 ISO 2178, 1982-08 EN 12062, 2002-09
Performed tests:	a) Check of documents b) Visual check c) Function test for nuts d) Verification of dimensions e) Galvanizising test; could not be performed in storage area

lot size [pcs]:	ordered:	manufactured:

Repetition Test: If only one specimen failes in the performed tests b) -- e) a repetition test will be necessary with twice amount of tested objects.
If a second specimen fails, the delivery lot of the tested fastening component type will not be accepted.

a) Check of Documents for Materials, Welding and Galvanizing
(Certificates from the subsuppliers for all specimens)

Test result passed:	yes:	✓	no:		
Transport papers	yes:	✓	no:		

SIEMENS	TEST PROCEDURE/ TEST REPORT	Date: 2018-08-08
MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	FAT/Sample Test	page no. 2 of 2

b) Visual Check

Test arrangement: see drawing

lot size per type [pcs] ≤	10	50	100	500
number of tested objects ≥	spot check only			

Test result:	yes:	✓	no:		remarks:
Name plate with identification	yes:	✓	no:		
Clean surface	yes:	✓	no:		
No damages	yes:	✓	no:		
					identificaiton by packing list

c) Function Test (Threads)

Test arrangement:	with bolt M10 to M22										
Test result:	check for specimen no.:										
passed	1	2	3	4	5	6	7	8	9	10	
yes											n.a., no threads
no											

d) Verification of Dimensions:

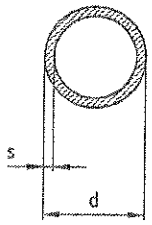
Test arrangement:	dimensions and tolerances acc. drawings (see attachment I), all dimensions with tolerance specification acc. ISO 2768-1/grade c , EN 1090-2 D.1										
	check for specimen no.:										**Test result:**
Parameter	1	2	3	4	5	6	7	8	9	10	**passed**
all dimensions of drawing	ok										yes ✓
											no
remarks											

present during testing:	Siemens AG:		Manufacturer:
Test passed:	yes: ✓	no:	

SIEMENS MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	08.08.2018, Nuremberg Date and place:	李 绘 青 筑 Customer

Steel tube (EN 10210)

for steady arms, tensioning weight guidance, operating linkage and cantilevers



Order no.	BWL2375-0A	BWL2175-1B	BWL2175-2B	BWL2175-4B
Designation	Steel tube 26.9x3.6 (3/4") [1]	Steel tube 33.7x3.2 (1") [2]	Steel tube 42.4x4.0 (1 1/4")	Steel tube 60.3x4.0 (2")
Material	S235JRH, hot dip galv.	S355J2H, hot dip galv.	S355J2H, hot dip galv.	S355J2H, hot dip galv.
Weight	2.07 kg/m	2.41 kg/m	3.79 kg/m	5.55 kg/m
Max. delivery length	7.0 m	7.0 m	7.0 m	7.0 m
d	26.9 mm	33.7 mm	42.4 mm	60.3 mm
s	3.6 mm	3.2 mm	4.0 mm	4.0 mm

[1] For order quantities up to 3 tons as 26.9x4.0 in material P235GH TC1, hot dip galvanized acc.to EN 10216-2 deliverable.
[2] For order quantities up to 3 tons in material P235GH TC1, hot dip galvanized acc.to EN 10216-2 deliverable.

Other lengths on request.

End caps for tube 26.9 mm, 33.7 mm and 60.3 mm see page 374.

End cap for tube 42.4 mm see page 330.

Steel tube 48.3 mm (1 3/4") on request.

SIEMENS	TEST PROCEDURE/ TEST REPORT	Date: 2018-08-08
MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	FAT/Sample Test	page no. 1 of 2

Reference no:	
Order no:	
Tested object:	8WL2175-2B, Steel tube 42,4mm
Drawing no:	8WL2175-2B
Production lot no:	
Manufacturer:	Sugremin, Spain
Materials:	galvanized steel
Testing laboratory:	no laboratory, check performed in storage area of Frapack GmbH Nürnberg
Test specification:	EN 10204, 2006-04; EN10210-2, 2006-04, EN10029, 2010-11 DIN VDE 0218, 1986-02, ISO 2768-1, 1989-11 EN ISO 1461, 2009-05 ISO 2178, 1982-08 EN 12062, 2002-09
Performed tests:	a) Check of documents b) Visual check c) Function test for nuts d) Verification of dimensions e) Galvanizising test; could not be performed in storage area

lot size [pcs]:	ordered:	manufactured:

Repetition Test: If only one specimen failes in the performed tests b) – e) a repetition test will be necessary with twice amount of tested objects.
If a second specimen fails, the delivery lot of the tested fastening component type will not be accepted.

a) Check of Documents for Materials, Welding and Galvanizing
(Certificates from the subsuppliers for all specimens)

Test result passed:	yes:	✓	no:		
Transport papers	yes:	✓	no:		

SIEMENS	TEST PROCEDURE/ TEST REPORT	Date: 2018-08-08
MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	FAT/Sample Test	page no. 2 of 2

b) Visual Check

Test arrangement: see drawing

lot size per type [pcs] ≤	10	50	100	500
number of tested objects ≥	spot check only			

Test result:	yes:	✓	no:		remarks:
Name plate with identification	yes:	✓	no:		
Clean surface	yes:	✓	no:		
No damages	yes:	✓	no:		
					identificaiton by packing list

c) Function Test (Threads)

Test arrangement:	with bolt M10 to M22										
Test result:	check for specimen no.:										
passed	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	
yes											n.a., no threads
no											

d) Verification of Dimensions:

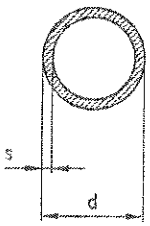
Test arrangement:	dimensions and tolerances acc. drawings (see attachment I), all dimensions with tolerance specification acc. ISO 2768-1/grade c , EN 1090-2 D.1										
	check for specimen no.:										**Test result:**
Parameter	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**passed**
all dimensions of drawing	ok										yes ✓
											no
remarks											

present during testing:	Siemens AG:		Manufacturer:
Test passed:	yes: ✓	no:	

SIEMENS MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	08.08.2018, Nuremberg Date and place:	李俊章斌 Customer

Steel tube (EN 10210)

for steady arms, tensioning weight guidance, operating linkage and cantilevers



Order no.	8WL2175-0A	8WL2175-1B	8WL2175-2B	8WL2175-4B
Designation	Steel tube 26.9x3.6 (3/4") [1]	Steel tube 33.7x3.2 (1") [2]	Steel tube 42.4x4.0 (1 1/4")	Steel tube 60.3x4.0 (2")
Material	S235JRH, hot dip galv.	S355J2H, hot dip galv.	S355J2H, hot dip galv.	S355J2H, hot dip galv.
Weight	2.07 kg/m	2.41 kg/m	3.79 kg/m	5.55 kg/m
Max. delivery length	7.0 m	7.0 m	7.0 m	7.0 m
d	26.9 mm	33.7 mm	42.4 mm	60.3 mm
s	3.6 mm	3.2 mm	4.0 mm	4.0 mm

[1] For order quantities up to 3 tons as 26.9x4.0 in material P235GH TC1, hot dip galvanized acc.to EN 10216-2 deliverable.
[2] For order quantities up to 3 tons in material P235GH TC1, hot dip galvanized acc.to EN 10216-2 deliverable.

Other lengths on request.

End caps for tube 26.9 mm, 33.7 mm and 60.3 mm see page 374.

End cap for tube 42.4 mm see page 330.

Steel tube 48.3 mm (1 3/4") on request.

SIEMENS	TEST PROCEDURE/ TEST REPORT	Date: 2018-08-08
MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	FAT/Sample Test	page no. 1 of 2

Reference no:	
Order no:	
Tested object:	C.5987-03-J4215-S013, Clamp band
Drawing no:	C.5987-03-J4215-S013
Production lot no:	
Manufacturer:	Sugremin, Spain
Materials:	galvanized steel
Testing laboratory:	no laboratory, check performed in storage area of Frapack GmbH Nürnberg
Test specification:	EN 10204, 2006-04; EN10210-2, 2006-04, EN10029, 2010-11 DIN VDE 0216, 1986-02, ISO 2768-1, 1989-11 EN ISO 1461, 2009-05 ISO 2178, 1982-08 EN 12062, 2002-09
Performed tests:	a) Check of documents b) Visual check c) Function test for nuts d) Verification of dimensions e) Galvanizising test; could not be performed in storage area

lot size [pcs]:	ordered:	manufactured:

Repetition Test: If only one specimen failes in the performed tests b) – e) a repetition test will be necessary with twice amount of tested objects.
If a second specimen fails, the delivery lot of the tested fastening component type will not be accepted.

a) Check of Documents for Materials, Welding and Galvanizing
(Certificates from the subsuppliers for all specimens)

Test result passed:	yes:	✓	no:		
Transport papers	yes:	✓	no:		

SIEMENS	TEST PROCEDURE/ TEST REPORT	Date: 2018-08-08
MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	FAT/Sample Test	page no. 2 of 2

b) Visual Check

Test arrangement: see drawing

lot size per type [pcs] ≤	10	50	100	500
number of tested objects ≥	spot check only			

Test result:	yes:	✓	no:		remarks:
Name plate with identification	yes:	✓	no:		
Clean surface	yes:	✓	no:		
No damages	yes:	✓	no:		

c) Function Test (Threads)

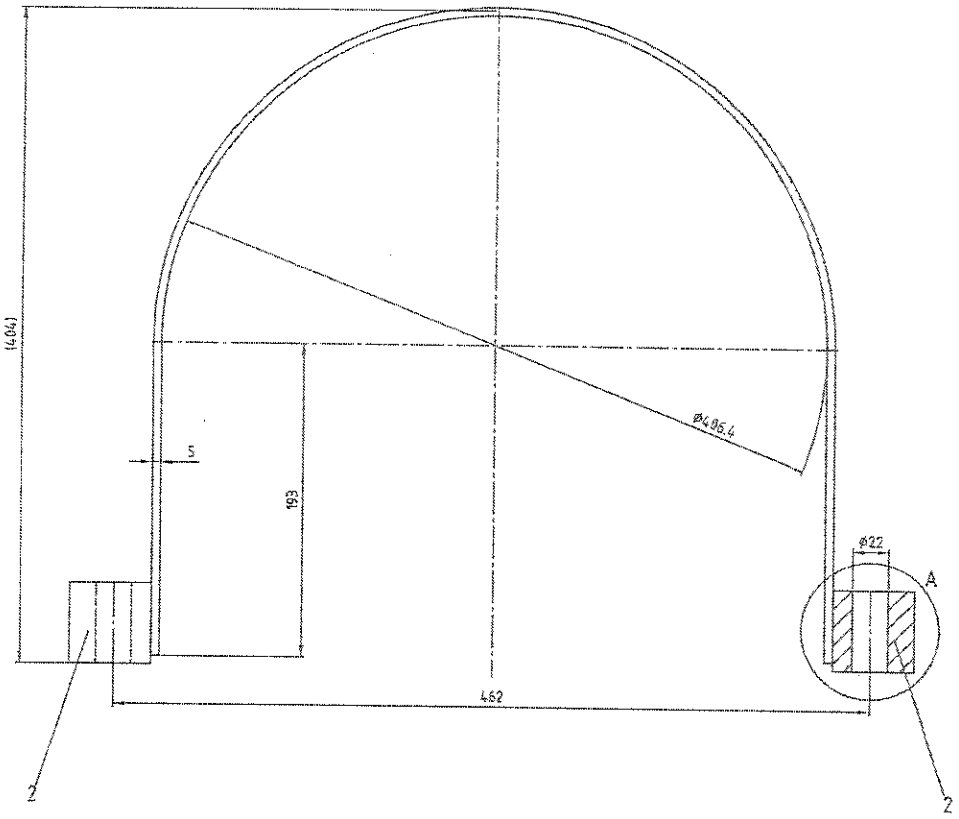
Test arrangement:	with bolt M10 to M22										
Test result:	check for specimen no.:										
passed	1	2	3	4	5	6	7	8	9	10	
yes											n.a., no threads
no											

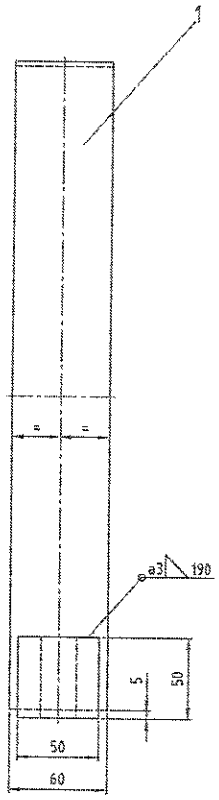
d) Verification of Dimensions:

Test arrangement:	dimensions and tolerances acc. drawings (see attachment I), all dimensions with tolerance specification acc. ISO 2768-1/grade c , EN 1090-2 D.1										
	check for specimen no.:										Test result:
Parameter	1	2	3	4	5	6	7	8	9	10	passed
all dimensions of drawing	ok										yes ✓
											no
remarks											

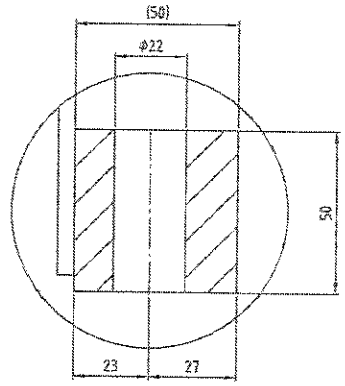
present during testing:	Siemens AG:	Manufacturer:
Test passed: yes:	✓ no:	

SIEMENS MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	08.08.2018, Nuremberg Date and place:	李 徐 李 赖 Customer





DETAIL A
1:1



MATERIAL:

PART 1: 1x FLATE BAR EN 10029 - 60 x 5 x 1029E
STEEL EN 10025 - S355J2
PART 2: 2x SQUARE BAR EN 10059 - 50 x 50 x 50E
STEEL EN 10025 - S355J2

ALL PARTS WITH > 0.19% SILICON CONTENT

WEIGHT : 3,42 KG

FREE OF BURR 0.3

WELDING SEAMS ACC. EN ISO 5817 GRADE C

AFTER DRILLING AND WELDING HOT DIP GALVANIZED
ACC. EN ISO 1461 TZN 0
LOCAL LAYER THICKNESS ≥ 85 µm

DIMENSION TOLERANCES ACC. TO EN 1090-2 D1
ADDITIONAL TOLERANCES ACC. ISO 2768-1 GRADE C
ADDITIONAL TOLERANCES ACC. TO EN-ISO 13920 B/F

EXECUTION CLASS: EXC 2 ACC. TO DS/EN 1090-2

FOR INSTALLATION USE THE CURRENT SIEMENS ASSEMBLY INSTRUCTIONS.				THIS DRAWING IS A COMPUTER PRODUCT, THEREFORE NO SIGNATURE IS REQUIRED. NO MANUAL MODIFICATIONS PERMITTED.	
Taiwan Southlink				Scale: 1:2	Weight:	Size: A2
				Parts list:		
			Date	Name		
			Drawn 01.02.18	Sprenger	BAND CLAMP FOR CIRCULAR STEEL POLE Ø406,4	
			Checked 01.02.18	Stiege		
			Appr. 02.02.18	Stiege		
01	DRAWING REVISED	27.04.18	BC	SIEMENS	C.5987-03-J4215-S013	SH.No 1
00	FIRST ISSUE	02.02.18	SW			1 Sht.
Rev.	Remarks	Date	Name	File No. C5987-03-J4215-S013-01.dwg	Origin	

SIEMENS	TEST PROCEDURE/ TEST REPORT	Date: 2018-08-08
MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	FAT/Sample Test	page no. 1 of 2

Reference no:	
Order no:	
Tested object:	C.5987-03-J4215-S015, Fixing bracket
Drawing no:	C.5987-03-J4215-S015
Production lot no:	
Manufacturer:	Sugremin, Spain
Materials:	galvanized steel
Testing laboratory:	no laboratory, check performed in storage area of Frapack GmbH Nürnberg
Test specification:	EN 10204, 2006-04; EN10210-2, 2006-04, EN10029, 2010-11 DIN VDE 0216, 1986-02, ISO 2768-1, 1989-11 EN ISO 1461, 2009-05 ISO 2178, 1982-08 EN 12062, 2002-09
Performed tests:	a) Check of documents b) Visual check c) Function test for nuts d) Verification of dimensions e) Galvanizising test; could not be performed in storage area

lot size [pcs]:	ordered:	manufactured:

Repetition Test: If only one specimen failes in the performed tests b) – e) a repetition test will be necessary with twice amount of tested objects.
If a second specimen fails, the delivery lot of the tested fastening component type will not be accepted.

a) Check of Documents for Materials, Welding and Galvanizing
(Certificates from the subsuppliers for all specimens)

Test result passed:	yes:	✓	no:		
Transport papers	yes:	✓	no:		

SIEMENS	TEST PROCEDURE/ TEST REPORT	Date: 2018-08-08
MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	FAT/Sample Test	page no. 2 of 2

b) Visual Check

Test arrangement: see drawing

lot size per type [pcs] ≤	10	50	100	500
number of tested objects ≥	spot check only			

Test result:	yes:	✓	no:		remarks:
Name plate with identification	yes:	✓	no:		
Clean surface	yes:	✓	no:		
No damages	yes:	✓	no:		

c) Function Test (Threads)

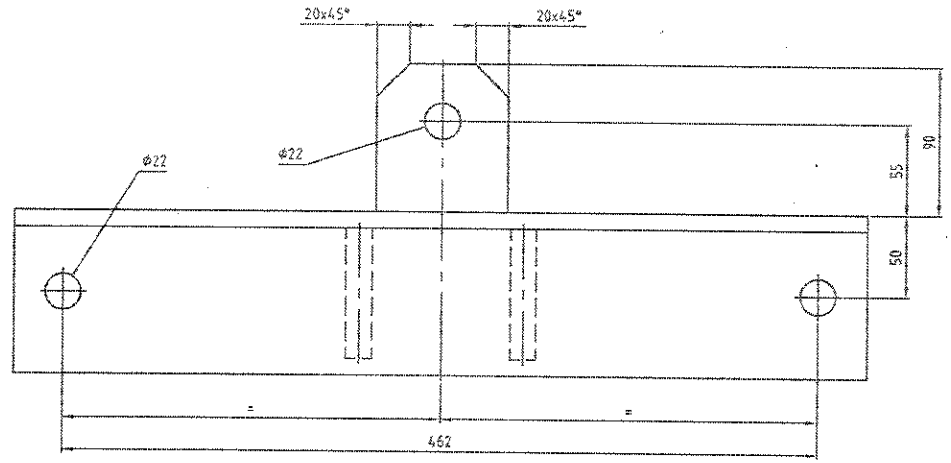
Test arrangement:	with bolt M10 to M22										
Test result:	check for specimen no.:										
passed	1	2	3	4	5	6	7	8	9	10	
yes											n.a., no threads
no											

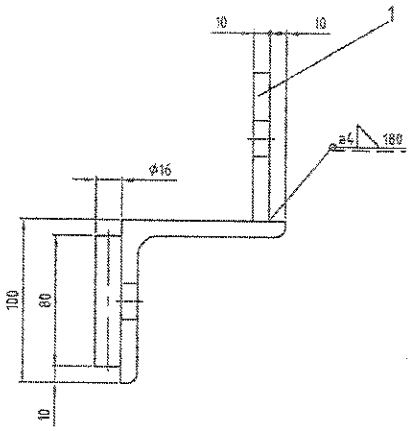
d) Verification of Dimensions:

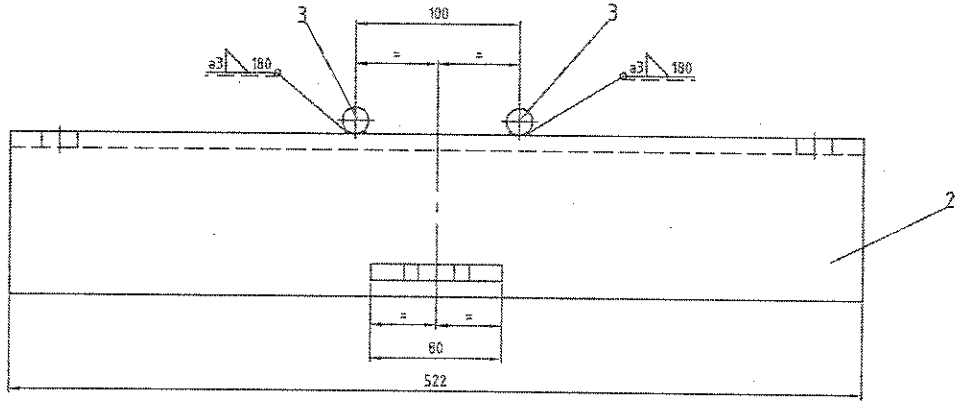
Test arrangement:	dimensions and tolerances acc. drawings (see attachment I), all dimensions with tolerance specification acc. ISO 2768-1/grade c , EN 1090-2 D.1										
	check for specimen no.:										Test result:
Parameter	1	2	3	4	5	6	7	8	9	10	passed
all dimensions of drawing	ok										yes ✓
											no
remarks											

present during testing:	Siemens AG:		Manufacturer:
Test passed:	yes: ✓	no:	

SIEMENS MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	08.08.2018, Nuremberg	
	Date and place:	Customer







MATERIAL:

PART 1: 1x FLATE BAR EN 10029 – 10 x 80 x 90E
STEEL EN 10025 – S355J2
PART 2: 1x L-ANGLE EN 10056-1 – 100 x 100 x 10 x 522E
STEEL EN 10025 – S355J2
PART 3: 2x ROUND BAR EN 10060 – 16 x 80E
STEEL EN 10025 – S355J2

ALL PARTS WITH > 0.19% SILICON CONTENT

WEIGHT : 8,60 KG

FREE OF BURR $\sqrt{-0,3}$

WELDING SEAMS ACC. EN ISO 5817 GRADE C

AFTER DRILLING AND WELDING HOT DIP GALVANIZED
ACC. EN ISO 1461 TZN 0
LOCAL LAYER THICKNESS ≥ 85 µm

DIMENSION TOLERANCES ACC. TO EN 1090-2 0.1
ADDITIONAL TOLERANCES ACC. ISO 2768-1 GRADE C
ADDITIONAL TOLERANCES ACC. TO EN ISO 13920 B/F

EXECUTION CLASS: EXC 2 ACC. TO DS/EN 1090-2

FOR INSTALLATION USE THE CURRENT SIEMENS ASSEMBLY INSTRUCTIONS.

THIS DRAWING IS A COMPUTER PRODUCT, THEREFORE NO SIGNATURE IS REQUIRED. NO MANUAL MODIFICATIONS PERMITTED.

Taiwan Southlink

Scale: 1:2 | Weight: | Size: A2

Parts list:

	Date	Name
Drawn	01.02.18	Sprenger
Checked	01.02.18	Biege
Appr.	02.02.18	Biege

FIXING BRACKET FOR RETURN CONDUCTOR ON CIRCULAR STEEL POLE Ø406,4

SIEMENS

C5987-03-J4215-S015

Dr.No 1 | 1 Sht

Rev.	Remarks	Date	Name
00	FIRST ISSUE	02.02.18	Ser

Pkv No. C5987-03-A215-S015-18.dwg | Origin:

SIEMENS	TEST PROCEDURE/ TEST REPORT	Date: 2018-08-08
MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	FAT/Sample Test	page no. 1 of 2

Reference no:	
Order no:	
Tested object:	C.5987-03-J4251-S002, Steady arm tube
Drawing no:	C.5987-03-J4251-S002
Production lot no:	
Manufacturer:	Sugremin, Spain
Materials:	galvanized steel
Testing laboratory:	no laboratory, check performed in storage area of Frapack GmbH Nürnberg
Test specification:	EN 10204, 2006-04; EN10210-2, 2006-04, EN10029, 2010-11 DIN VDE 0216, 1986-02, ISO 2768-1, 1989-11 EN ISO 1461, 2009-05 ISO 2178, 1982-08 EN 12062, 2002-09
Performad tests:	a) Check of documents b) Visual check c) Function test for nuts d) Verification of dimensions e) Galvanizising test; could not be performed in storage area

lot size [pcs]:	ordered:	manufactured:

Repetition Test: If only one specimen failes in the performed tests b) – e) a repetition test will be necessary with twice amount of tested objects.
If a second specimen fails, the delivery lot of the tested fastening component type will not be accepted.

a) Check of Documents for Materials, Welding and Galvanizing
(Certificates from the subsuppliers for all specimens)

Test result passed:	yes:	✓	no:		
Transport papers	yes:	✓	no:		

SIEMENS	TEST PROCEDURE/ TEST REPORT	Date: 2018-08-08
MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	FAT/Sample Test	page no. 2 of 2

b) Visual Check

Test arrangement: see drawing

lot size per type [pcs] ≤	10	50	100	500
number of tested objects ≥	spot check only			

Test result:	yes:	✓	no:		remarks:
Name plate with identification	yes:	✓	no:		
Clean surface	yes:	✓	no:		
No damages	yes:	✓	no:		

c) Function Test (Threads)

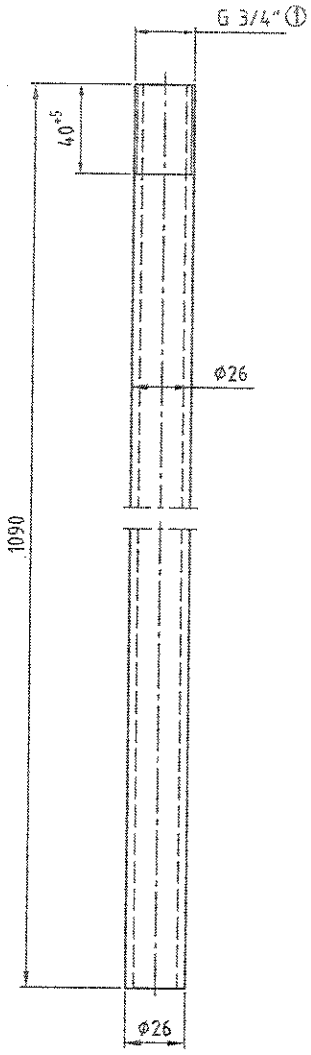
Test arrangement:	with bolt M10 to M22										
Test result:	check for specimen no.:										
passed	1	2	3	4	5	6	7	8	9	10	
yes											visual check
no											

d) Verification of Dimensions:

Test arrangement:	dimensions and tolerances acc. drawings (see attachment I). all dimensions with tolerance specification acc. ISO 2768-1/grade c , EN 1090-2 D.1										
	check for specimen no.:										Test result:
Parameter	1	2	3	4	5	6	7	8	9	10	passed
all dimensions of drawing	ok										yes ✓
											no
remarks											

present during testing:	Siemens AG:		Manufacturer:
Test passed:	yes: ✓	no:	

SIEMENS MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	08.08.2018, Nuremberg Date and place:	李徐美斌 Customer



① AFTER GALVANIZING RE-THREADED
AND PROTECTED AGAINST CORROSION

MATERIAL:

TUBE – Ø26 x 3,5 x 1090E
STEEL EN 10305-1 – E355+A
ALL PARTS WITH > 0.19% SILICON CONTENT

WEIGHT : 2,2 KG

FREE OF BURR |-0,3

AFTER THREAD CUTTING HOT DIP GALVANIZED
ACC. EN ISO 1461 TZN 0
LOCAL LAYER THICKNESS ≥ 85 µm

ADDITIONAL TOLERANCES ACC. ISO 2768-1 GRADE C

EXECUTION CLASS: EXC 2 ACC. TO DS/EN 1090-2

FOR INSTALLATION USE THE CURRENT SIEMENS ASSEMBLY INSTRUCTIONS.

THIS DRAWING IS A COMPUTER PRODUCT, THEREFORE NO SIGNATURE IS REQUIRED
NO MANUAL MODIFICATIONS PERMITTED.

Taiwan Southlink

Scale: 1:2 | Weight: | Size: A3

Parts list:

	Date	Name
Drawn	01.02.18	Sprenger
Checked	01.02.18	Biege
Appr.	02.02.18	Biege

STEADY ARM TUBE
L = 1090mm

Rev.	Remarks	Date	Name
02	TEXT REVISED	07.05.18	PI
01	MATERIAL REVISED	27.04.18	Kr
00	FIRST ISSUE	02.02.18	Spr

SIEMENS

C.5987-03-J4251-S002

Sh.No 1 | 1 Shs

File No. C.5987-03-J4251-S002-02-1.dwg | Origin:

SIEMENS	TEST PROCEDURE/ TEST REPORT	Date: 2018-08-06
MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	FAT/Sample Test	page no. 1 of 2

Reference no:	
Order no:	
Tested object:	C.5987-03-J4251-S003, Steady arm tube
Drawing no:	C.5987-03-J4251-S003
Production lot no:	
Manufacturer:	Sugremin, Spain
Materials:	galvanized steel
Testing laboratory:	no laboratory, check performed in storage area of Frapack GmbH Nürnberg
Test specification:	EN 10204, 2006-04; EN10210-2, 2006-04, EN10029, 2010-11 DIN VDE 0216, 1996-02, ISO 2768-1, 1989-11 EN ISO 1461, 2009-05 ISO 2178, 1982-08 EN 12062, 2002-09
Performed tests:	a) Check of documents b) Visual check c) Function test for nuts d) Verification of dimensions e) Galvanizising test; could not be performed in storage area

lot size [pcs]:	ordered:	manufactured:

Repetition Test: If only one specimen failes in the performed tests b) – e) a repetition test will be necessary with twice amount of tested objects.
If a second specimen fails, the delivery lot of the tested fastening component type will not be accepted.

a) Check of Documents for Materials, Welding and Galvanizing
(Certificates from the subsuppliers for all specimens)

Test result passed:	yes:	✓	no:		
Transport papers	yes:	✓	no:		

SIEMENS	TEST PROCEDURE/ TEST REPORT	Date: 2018-08-08
MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	FAT/Sample Test	page no. 2 of 2

b) Visual Check

Test arrangement: see drawing

lot size per type [pcs] ≤	10	50	100	500
number of tested objects ≥	spot check only			

Test result:	yes:	✓	no:		remarks:
Name plate with identification	yes:	✓	no:		
Clean surface	yes:	✓	no:		
No damages	yes:	✓	no:		

c) Function Test (Threads)

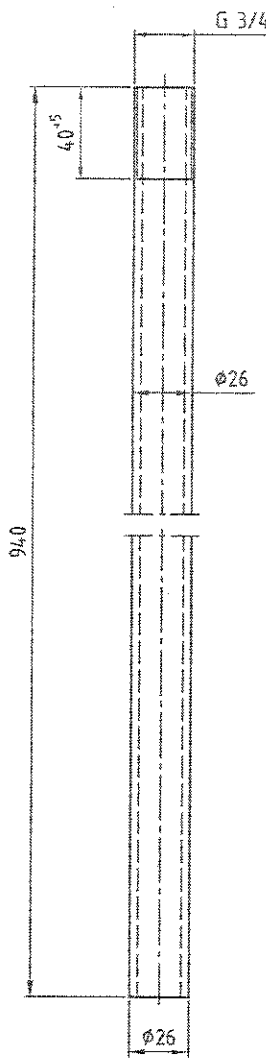
Test arrangement:	with bolt M10 to M22										
Test result:	check for specimen no.:										
passed	1	2	3	4	5	6	7	8	9	10	visual check
yes											
no											

d) Verification of Dimensions:

Test arrangement:	dimensions and tolerances acc. drawings (see attachment I), all dimensions with tolerance specification acc. ISO 2768-1/grade c , EN 1090-2 D.1										
	check for specimen no.:										Test result:
Parameter	1	2	3	4	5	6	7	8	9	10	passed
all dimensions of drawing	ok										yes ✓
											no
remarks											

present during testing:	Siemens AG:	Manufacturer:
Test passed: yes: ✓	no:	

SIEMENS MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	08.08.2018, Nuremberg	李 徐 董 斌
	Date and place:	Customer



① AFTER GALVANIZING RE-THREADED
AND PROTECTED AGAINST CORROSION

MATERIAL:

TUBE - Ø26 x 3,5 x 1090E
STEEL EN 10305-1 - E355+A
ALL PARTS WITH > 0.19% SILICON CONTENT

WEIGHT : 1,9 KG

FREE OF BURR |-0,3

AFTER THREAD CUTTING HOT DIP GALVANIZED
ACC. EN ISO 1461 TZN 0
LOCAL LAYER THICKNESS ≥ 85 µm

ADDITIONAL TOLERANCES ACC. ISO 2768-1 GRADE C

EXECUTION CLASS: EXC 2 ACC. TO DS/EN 1090-2

FOR INSTALLATION USE THE CURRENT SIEMENS ASSEMBLY INSTRUCTIONS.	THIS DRAWING IS A COMPUTER PRODUCT, THEREFORE NO SIGNATURE IS REQUIRED. NO MANUAL MODIFICATIONS PERMITTED.

Taiwan Southlink						Scale: 1:2	Weight:	Size: A3
						Parts list:		
					Date	Name		
				Drawn	01.02.18	Sprenger	STEADY ARM TUBE L = 940mm	
				Checked	01.02.18	Biege		
				Appr.	02.02.18	Biege		
01	TEXT REVISED	07.05.18	PI	SIEMENS			C.5987-03-J4251-S003	Sh.No 1
00	FIRST ISSUE	02.02.18	Spr					1 Shs
Rev.	Remarks	Date	Name	File No. C5987-03-J4251-S003-01-1.dwg			Origin:	

SIEMENS	TEST PROCEDURE/ TEST REPORT	Date: 2018-08-08
MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	FAT/Sample Test	page no. 1 of 2

Reference no:	
Order no:	
Tested object:	C.5987-03-J4251-S006, Steady arm tube
Drawing no:	C.5987-03-J4251-S006
Production lot no:	
Manufacturer:	Sugremin, Spain
Materials:	galvanized steel
Testing laboratory:	no laboratory, check performed in storage area of Frapeck GmbH Nürnberg
Test specification:	EN 10204, 2006-04; EN10210-2, 2006-04, EN10029, 2010-11 DIN VDE 0216, 1986-02, ISO 2768-1, 1989-11 EN ISO 1461, 2009-05 ISO 2178, 1982-08 EN 12062, 2002-09
Performed tests:	a) Check of documents b) Visual check c) Function test for nuts d) Verification of dimensions e) Galvanizising test: could not be performed in storage area

lot size [pcs]:	ordered:	manufactured:

Repetition Test: If only one specimen failes in the performed tests b) – e) a repetition test will be necessary with twice amount of tested objects.
If a second specimen falls, the delivery lot of the tested fastening component type will not be accepted.

a) Check of Documents for Materials, Welding and Galvanizing
(Certificates from the subsuppliers for all specimens)

Test result passed:	yes:	✓	no:		
Transport papers	yes:	✓	no:		

SIEMENS	TEST PROCEDURE/ TEST REPORT	Date: 2018-08-08
MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	FAT/Sample Test	page no. 2 of 2

b) Visual Check

Test arrangement: see drawing

lot size per type [pcs] ≤	10	50	100	500
number of tested objects ≥	spot check only			

Test result:	yes:	✓	no:		remarks:
Name plate with identification	yes:	✓	no:		
Clean surface	yes:	✓	no:		
No damages	yes:	✓	no:		

c) Function Test (Threads)

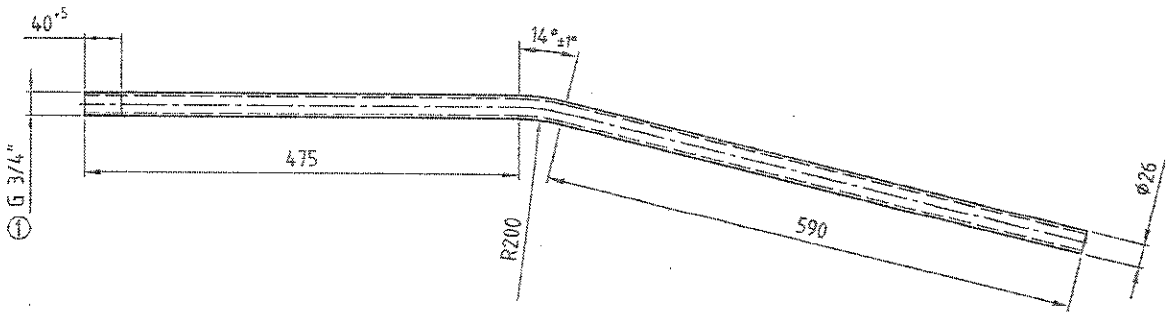
Test arrangement:	with bolt M10 to M22										
Test result:	check for specimen no.:										
passed	1	2	3	4	5	6	7	8	9	10	
yes											visual check
no											

d) Verification of Dimensions:

Test arrangement:	dimensions and tolerances acc. drawings (see attachment I), all dimensions with tolerance specification acc. ISO 2768-1/grade c , EN 1090-2 D.1										
	check for specimen no.:										Test result:
Parameter	1	2	3	4	5	6	7	8	9	10	passed
all dimensions of drawing	ok										yes ✓
											no
remarks											

present during testing:	Siemens AG:		Manufacturer:
Test passed:	yes: ✓	no:	

SIEMENS MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	08.08.2018, Nuremberg	李 徐 董 颖
	Date and place:	Customer



① AFTER GALVANIZING RE-THREADED AND PROTECTED AGAINST CORROSION

MATERIAL:

TUBE - Ø26 x 3,5 x 1090E
STEEL EN 10305-1 - E355+A
ALL PARTS WITH > 0.19% SILICON CONTENT

WEIGHT : 2,27 KG

FREE OF BURR ⌊-0,3

AFTER THREAD CUTTING HOT DIP GALVANIZED
ACC. EN ISO 1461 TZN 0
LOCAL LAYER THICKNESS ≥ 85 µm

ADDITIONAL TOLERANCES ACC. ISO 2768-1 GRADE C

EXECUTION CLASS: EXC 2 ACC. TO DS/EN 1090-2

FOR INSTALLATION USE THE CURRENT SIEMENS ASSEMBLY INSTRUCTIONS.	THIS DRAWING IS A COMPUTER PRODUCT, THEREFORE NO SIGNATURE IS REQUIRED. NO MANUAL MODIFICATIONS PERMITTED.

Taiwan Southlink		Scale: 1:5	Weight:
		Size: A3	
Parts list:			

	Date	Name
Drawn	01.02.18	Sprenger
Checked	01.02.18	Biege
Appr.	02.02.18	Biege

ANGLED STEADY ARM TUBE
L = 1110mm

Rev.	Remarks	Date	Name
01	TEXT REVISED	07.05.18	Pi
00	FIRST ISSUE	02.02.18	Spr

SIEMENS

C.5987-03-J4251-S006

Sh.No 1
1 Shs

File No. C5987-03-J4251-S006-01-Ldwg
Origin:

SIEMENS	TEST PROCEDURE/ TEST REPORT	Date: 2018-08-08
MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	FAT/Sample Test	page no. 1 of 2

Reference no:	
Order no:	
Tested object:	Theaded pin DIN976-BM20x250-A4-80
Drawing no:	Theaded pin DIN976-BM20x250-A4-80
Production lot no:	
Manufacturer:	Lederer, Germany
Materials:	Stainless steel
Testing laboratory:	no laboratory, check performed in storage area of Frapack GmbH Nürnberg
Test specification:	EN 10204, 2006-04; EN10210-2, 2006-04, EN10029, 2010-11 DIN VDE 0216, 1986-02, ISO 2768-1, 1989-11 EN ISO 1461, 2009-05 ISO 2178, 1982-08 EN 12062, 2002-09
Performed tests:	a) Check of documents b) Visual check c) Function test for nuts d) Verification of dimensions e) Galvanizising test; could not be performed in storage area

lot size [pcs]:	ordered:	manufactured:

Repetition Test: If only one specimen failes in the performed tests b) – e) a repetition test will be necessary with twice amount of tested objects.
If a second specimen fails, the delivery lot of the tested fastening component type will not be accepted.

a) Check of Documents for Materials, Welding and Galvanizing
(Certificates from the subsuppliers for all specimens)

Test result passed:	yes:	✓	no:		
Transport papers	yes:	✓	no:		

SIEMENS	TEST PROCEDURE/ TEST REPORT	Date: 2018-08-08
MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	FAT/Sample Test	page no. 2 of 2

b) Visual Check

Test arrangement: see drawing

lot size per type [pcs] ≤	10	50	100	500
number of tested objects ≥	spot check only			

Test result:	yes:	✓	no:		remarks:
Name plate with identification	yes:	✓	no:		
Clean surface	yes:	✓	no:		
No damages	yes:	✓	no:		

c) Function Test (Threads)

Test arrangement:	with bolt M10 to M22									
Test result:	check for specimen no.:									
passed	1	2	3	4	5	6	7	8	9	10
yes	ok	ok								
no										

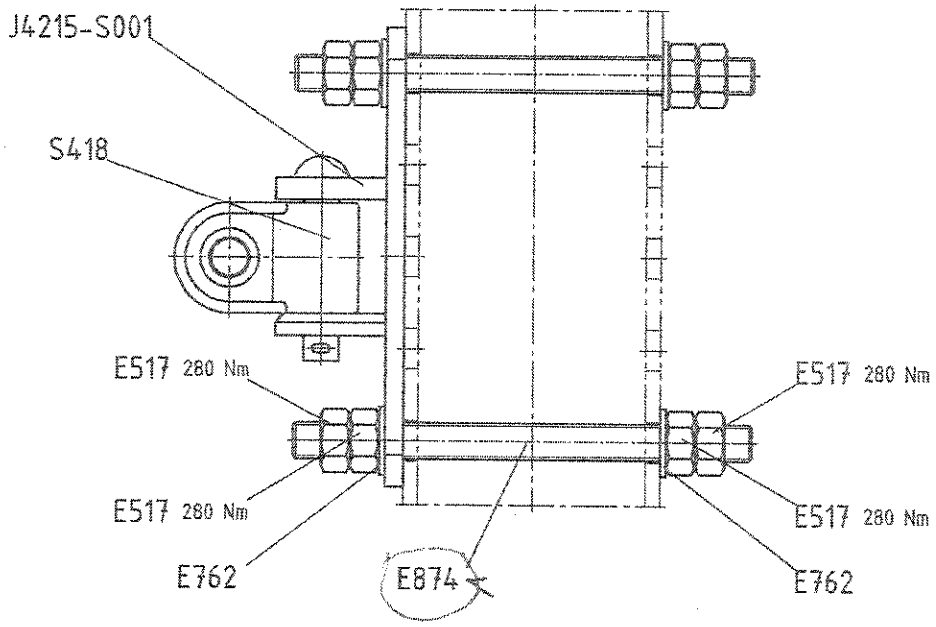
d) Verification of Dimensions:

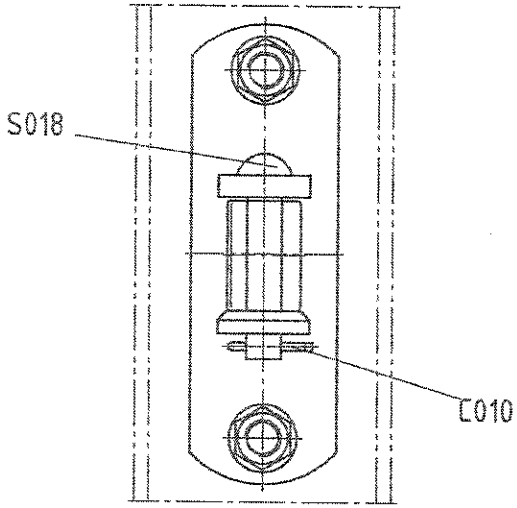
Test arrangement: dimensions and tolerances acc. drawings (see attachment I), all dimensions with tolerance specification acc. ISO 2768-1/grade c , EN 1090-2 D.1

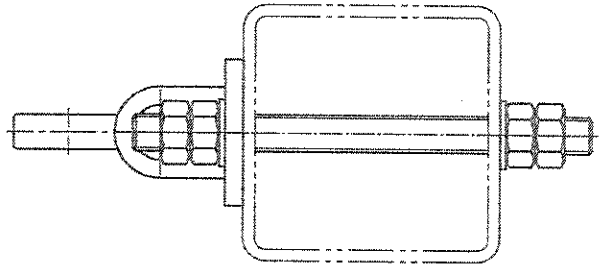
	check for specimen no.:										Test result:
Parameter	1	2	3	4	5	6	7	8	9	10	passed
all dimensions of drawing	ok	ok									yes ✓
											no
remarks											

present during testing:	Siemens AG:		Manufacturer:
Test passed:	yes: ✓	no:	

SIEMENS MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	08.08.2018, Nuremberg	李 徐 軍 癌
	Date and place:	Customer







Qty Unit	Description Application	Product No. SAP-Material No.	Equipm.- Ident.
1.00 PC	Split pin ISO1234-5x28-Cu	BWL1115-1	C010
8.00 PC	Hexagon nut DIN934-M20-A4-70	DIN:934-M20-A4-70	E517
4.00 PC	Washer DIN125-A21-A4	DIN:125-A21-A4	E762
2.00 PC	Threaded pin DIN976-BM20x250-A4-80	DIN:976-BM20X250-A4-80	E874
1.00 PC	Cantilever swivel bracket at steel pole	C.5987-03-J4215-S001	J4215-S001
1.00 PC	Pin DIN43161-19x100	BWL1112-0	S018
1.00 PC	Swivel with eye 20	BWL2127-0	S418

FOR INSTALLATION USE THE CURRENT SIEMENS ASSEMBLY INSTRUCTIONS.

THIS DRAWING IS A COMPUTER PRODUCT, THEREFORE NO SIGNATURE IS REQUIRED. NO MANUAL MODIFICATIONS PERMITTED.

FOR THE MOUNTING OF BOLTED CONNECTIONS USE LUBRICANT WITH A WATER BASE. (FOR EXAMPLE: OKS 1710)

Taiwan Southlink

Scale: 1:2.5 | Weight: | Size: A3

Parts list: C.5987-03-C1361-S004

	Date	Name
Drawn	19.06.18	Baptistell
Checked	19.06.18	Biege
Appr.	19.06.18	Biege

FIXING FOR SINGLE CANTILEVER AT DROP BRACKET FOR SHORT NEUTRAL SECTION

SIEMENS

C.5987-03-C1361-S004

Sht.No 1 | 1 Shts

Rev.	Remarks	Date	Name
00	FIRST ISSUE	19.06.18	SB

File No. C5987-03-C1361-S004-00-1.dwg | Origin:

SIEMENS MO TPE RE EN&OP COL Rail Electrification P.O.Box 3240 91050 Erlangen	TEST PROCEDURE/ TEST REPORT FAT/Sample Test	Date: 08.08.2018 Report no: page no. __1___ of __1

Tested object:	**Rope 12,0 6x19M- WSC 1770 B sZ**
Drawing no:	8WL7091-6
Production lot no:	
Manufacturer:	
Materials:	St zinc-plated
Testing laboratory:	No laboratory, ckeck performed instorage area of Frapack GmbH Nürnberg
Test specification:	EN 10264-1 (01/12), EN 12385-2 (12/02), EN 12385-4 (03/08), EN 10244-2 (04/09)
Samples:	EN 12385-1 (10/08) A and B
Drum no.:	specimen taken from drum no.

a.) Dimensions of single strand:

Tests performed: Measurements acc. to standard EN 10264-4, chapter 5.2, table 4

Test result: see table

b.) Tensile strength of single strand:

Tests performed: Measurements acc. to standard EN 12385-4, chapter 5.2.1, table 2

Test result: see table

c.) Dimension of rope:

Tests performed: Measurements of diameter acc. to standard EN 12385-4, chapter 5.4.1, table 3

Test result: see table

d.) Breaking force of rope:

Tests performed: Measurement of breaking force acc. to standard EN 12385-1, chapter 6.4

Test result: Could not be tested due to missing measuring equipment in storing area

e.) Direction of lay of rope and number of single strands:

Tests performed: Checks acc. to standard EN 12385-2, chapter 3.8 and DIN EN 12385-4, table 12

Test result: Could not be tested due to missing measuring equipment in storing area

f.) Weight of rope:

Tests performed: Measurements acc. to standard EN 12385-4, table 12, C.1

Test result: Could not be tested due to missing measuring equipment in storing area

g.) Zinc-plated: Test acc. to standard EN 10244-2, chapter 3.3, table 1 **Test passed:** ☐ yes ☐ no

Specimen		Single strand tests								Rope tests					Test passed	
		Strand of outer layer				Strand of core										
		inner strand		outer strand		inner strand		outer strand								
specimen no.	Type of specimen	Diameter [mm]	Breaking load [N]	Diameter [mm]	Breaking load [N]	Diameter [mm]	Breaking load [N]	Diameter [mm]	Breaking load [N]	Diameter [mm]	Breaking force [kN]	Direction of lay [Inner Layer/Outer Layer]	number of single strand	Weight per km [kg]	yes	no
nominal values		0,80 +/- 0,010		0,80 +/- 0,010		0,80 +/- 0,010		0,80 +/- 0,010		12,0+5%	92,26	sZ	133	549		
1		ok		ok		ok		ok		ok		ok	ok		yes	

present during testing: Customer: 李维重新 Siemens AG:

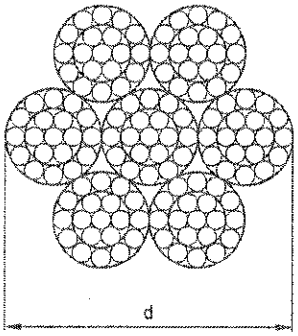
Manufacturer: .....

Test passed: ☑ yes ☐ no

SIEMENS MO TPE RE EN&OP COL Rail Electrification	Date and place: 08-08-2018 Nuremberg, Germany	

Steel wire rope with wire strand core

acc. to EN 12385-4, for anchoring of poles



Order no	8WL7091-6	8WL7091-7
Designation	Steel wire rope 12	Steel wire rope 14
Material	–	–
Weight	0.548 kg/m	0.75 kg/m
Rope class with core	6x19M-WSC	6x19M-WSC
Rope grade	1770	1770
Min. breaking force	92.62 kN	125.6 kN
Surface finish	B [1]	A(Zn/Al) [2]
Lay type and direction	sZ [3]	sZ [3]
d	12 mm	14 mm

[1] Zinc coated class B

[2] Zinc alloy coated class A

[3] ordinary lay, right

SIEMENS TS EL Railway Electrification P.O.Box 3240 91050 Erlangen	TEST PROCEDURE/ TEST REPORT FAT/Sample Test	Date: 08.08.2018 Report no page no. 1 of 2

Tested object:	Wire DIN 43138-Bzll-25x133
Order- no:	8WL7062-0
Production lot no:	
Manufacturer:	
Materials:	Bzll, DIN 17666
Testing	No laboratory, ckeck performed instorage area of Frapack GmbH Nürnberg
Test specification:	DIN 43138 (09/80), DIN 48203-2 (03/84), DIN 17666 (12/83)
performed tests:	DIN 43138, chapter 2, 3, 4, DIN 48203-2, chapter 2, 3, 4
Samples:	DIN 48203-2, chapter 4

a) Material Composition :

Test arrangement : See standard DIN 17666, table 1

Test result : The material certificate is available and is acc. to standard

passed	
yes	no
✓	

b) Surface Check of a Single Wire:

Test arrangement : Visual check acc. to DIN 48203-2, chapter 2.3

Test result : All checks conform with the standard

passed	
yes	no
✓	

c) Weight of the Rope, Dimension of Rope and Single Wire:

Test arrangement : Measurements acc. to standard DIN 43138, chapter 3

Test result : All measurements conform with the standard

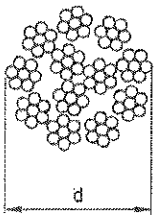
Test Dimension	specimen / drum number								passed	
Rope	1	2	3	4	5	6	7	8	yes	no
Diam. mm 7,50 ± 5 % 7,875 – 7,125	ok									
weight per kg/km 246,0 ± 8 % 265,68 – 226,32	not checked									
Single Wire										
Diam. mm 0,50 ± 0,03 0,53 – 0,47	ok									

Specimen / drum number 1=xxx, 2=xxx

✓

Wire, flexible made of BzII

acc. to DIN 43138, for droppers or stitch wires



Order no.	3WL7061-0	3WL7061-1	3WL7062-0	3WL7063-0
Designation	Wire 16x49	Wire 16x84	Wire 25x133	Wire 35x133
Material	BzII	BzII	BzII	BzII
Weight	0.15 kg/m	0.15 kg/m	0.25 kg/m	0.35 kg/m
Nominal cross-section	16 mm²	16 mm²	25 mm²	35 mm²
Number of wires	49	84	133	133
Min. tensile strength	589 N/mm²	589 N/mm²	589 N/mm²	589 N/mm²
Perm. permanent current	110 A	115 A	145 A	180 A
d	5.9 mm	6.2 mm	7.5 mm	9.0 mm

SIEMENS	TEST PROCEDURE/ TEST REPORT	Date: 2018-08-08
MO TPE Railway Electrification P.O.Box 3240 91050 Erlangen	FAT/Sample Test	page no. 1 of 2

Reference no:	
Order no:	
Tested object:	8WL5150-0, Weight guide tube
Drawing no:	8WL5150-0
Production lot no:	
Manufacturer:	Sugremin, Spain
Materials:	galvanized steel
Testing laboratory:	no laboratory, check performed in storage area of Frepack GmbH Nürnberg
Test specification:	EN 10204, 2006-04: EN10210-2, 2006-04, EN10029, 2010-11 DIN VDE 0216, 1966-02, ISO 2768-1, 1969-11 EN ISO 1461, 2009-05 ISO 2178, 1982-09 EN 12062, 2002-09
Performed tests:	a) Check of documents b) Visual check c) Function test for nuts d) Verification of dimensions e) Galvanizising test; could not be performed in storage area
lot size [pcs]:	ordered: / manufactured:

Repetition Test: If only one specimen failes in the performed tests b) – e) a repetition test will be necessary with twice amount of tested objects.
If a second specimen fails, the delivery lot of the tested fastening component type will not be accepted.

a) Check of Documents for Materials, Welding and Galvanizing
(Certificates from the subsupplliers for all specimens)

Test result passed:	yes:	✓	no:		
Transport papers	yes:	✓	no:		

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b) Visual Check

Test arrangement: see drawing

lot size per type [pcs] ≤	10	50	100	500
number of tested objects ≥	spot check only			

Test result:	yes:	✓	no:		remarks:
Name plate with identification	yes:	✓	no:		
Clean surface	yes:	✓	no:		
No damages	yes:	✓	no:		
					identificaiton by packing list

c) Function Test (Threads)

Test arrangement:	with bolt M10 to M22									
Test result:	check for specimen no.:									
passed	1	2	3	4	5	6	7	8	9	10
yes	ok									
no										

d) Verification of Dimensions:

Test arrangement:	dimensions and tolerances acc. drawings (see attachment I), all dimensions with tolerance specification acc. ISO 2768-1/grade c , EN 1090-2 D.1										
	check for specimen no.:										Test result:
Parameter	1	2	3	4	5	6	7	8	9	10	passed
all dimensions of drawing	ok										yes ✓
											no
remarks											
present during testing:	Siemens AG:							Manufacturer:			

Test passed: yes: ✓ no:

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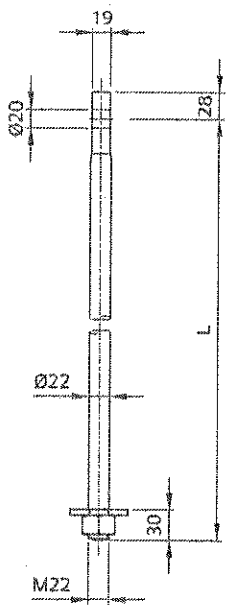
	Date and place:	Customer

Support bar 22

for arrangement of weight sets on tension wheel assembly, for cast iron weights 8WL5101-0 or 8WL5100-0



Order no.	8WL5150-0	8WL5152-0	8WL5154-0	8WL5155-0	8WL5142-0
Designation	Support bar 22	Support bar 22	Support bar 22	Support bar 22	Support bar 22
Material					
Bar	htgSt	htgSt	htgSt	htgSt	htgSt
Plate 6x60x60	htgSt	htgSt	htgSt	htgSt	htgSt
Nut	htgSt	htgSt	htgSt	htgSt	htgSt
Weight	3.0 kg	4.6 kg	5.9 kg	6.0 kg	7.8 kg
Weight 8WL5101-0	max. 8	max. 11	max. 14	max. 15	max. 20
Weight 8WL5100-0	max. 16	max. 22	max. 28	max. 31	max. 41
L	1000 mm	1400 mm	1800 mm	2000 mm	2600 mm

Other lengths on request.