

DATA-BOOK

Projeto: EMAP – SÃO LUÍS, MA

Referência: SISTEMAS DE DEFENSAS – BERÇO 100

Número: 026 2019

Data: 20/12/2019



DESENHOS



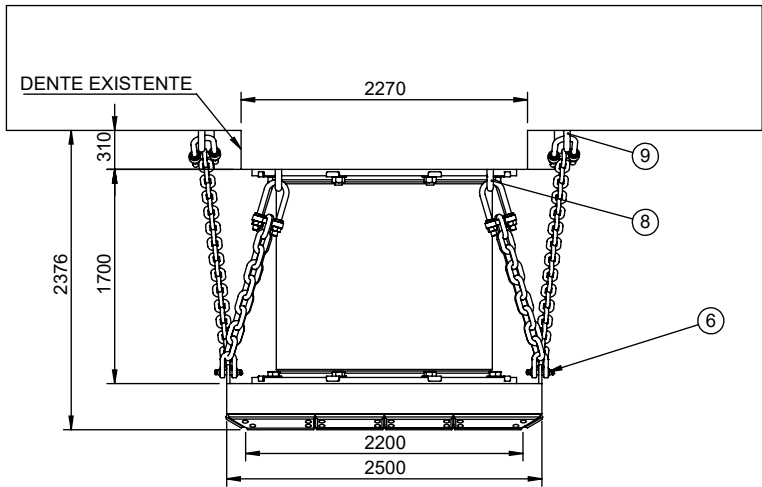
AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DO GRUPO COPABO, SENDO PROIBIDA A SUA REPRODUÇÃO E UTILIZAÇÃO FORA DA SUA FINALIDADE.

D

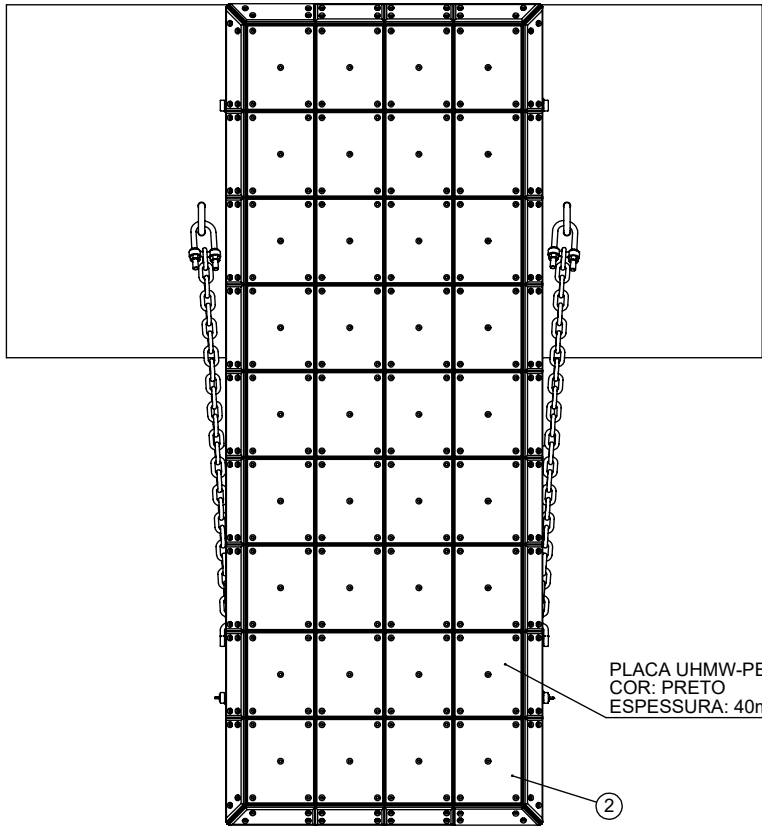
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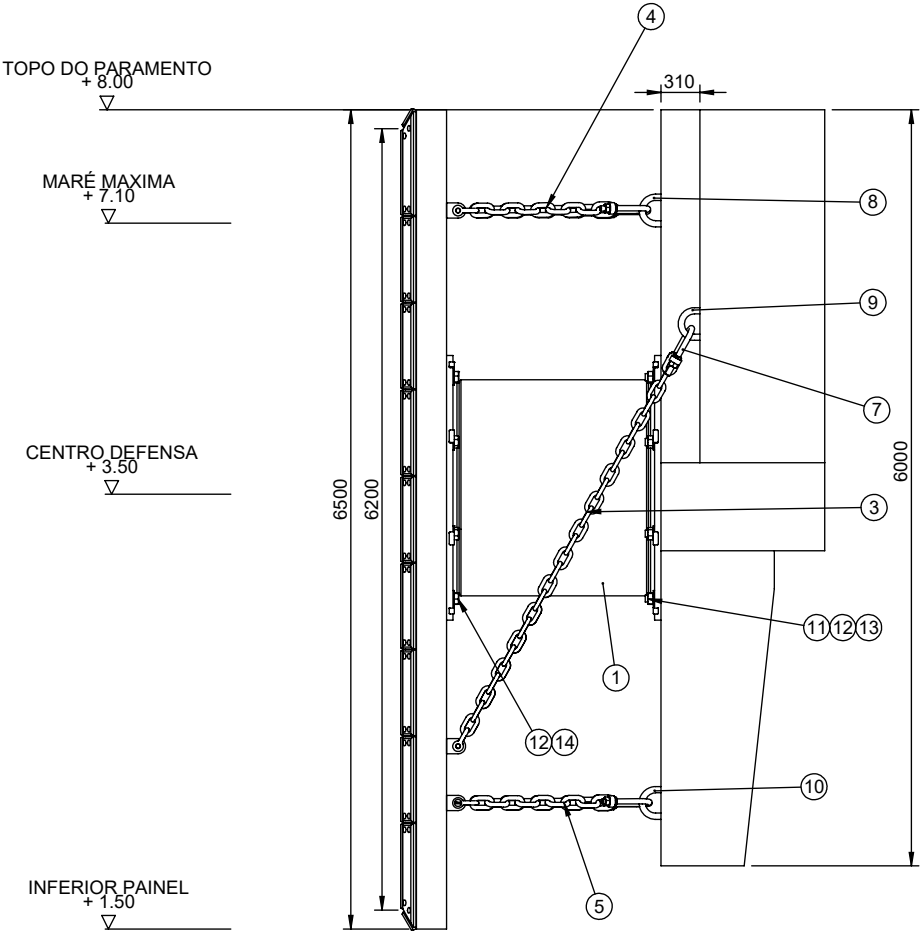


VISTA SUPERIOR



VISTA FRONTAL

TABELA DE PERFORMANCE	
Tipo Defesa	CILINDRICA 1700
Deflexão	52.5%
Energia	1018 kNm
Reação	1366 kN
Tolerância	10 ±



VISTA LATERAL

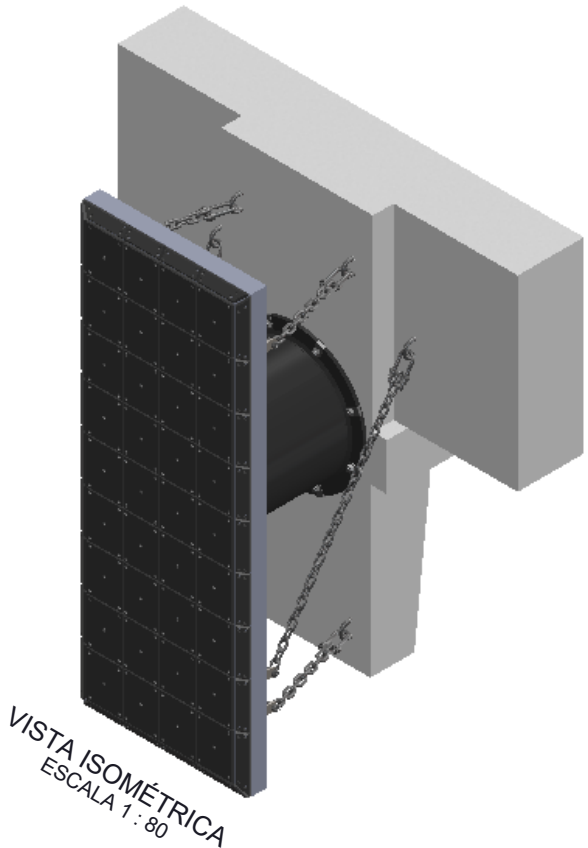


Tabela de Pintura		Total: 450µm
4º Demão	N-2677 (Preto N1)	70µm
3º Demão	N-2630	160µm
2º Demão	N-2630	160µm
1º Demão	N-1277	60µm
Sequência Demão	Tipo de Tinta	Espessura/Camada

14	PARAFUSO SEXTAVADO DIN 933 8.8 MA M56 X 130 GF	8	SAE 1045 - 8.8
13	PORCA SEXTAVADA DIN 934 CL.8 MA M56 GF	8	SAE 1045 - CL.8
12	ARRUELA ESPECIAL 105 X 65 X 10 GF	16	ASTM A36
11	CHUMBADOR CONCRETO EXISTENTE MA M56 X 680 GF	8	SAE 1045
10	SUPORTE DE CORRENTE U Ø2" X 680 GF	2	SAE 1045
9	SUPORTE DE CORRENTE U Ø2" X 470 GF	2	SAE 1045
8	SUPORTE DE CORRENTE U Ø2" X 780 GF	2	SAE 1045
7	TENSIONADOR DE CORRENTE M42 GF	6	SAE 1045
6	MANILHA RETA C/ PINO ROSCADO ALLOY Ø1.3/8" GF	6	GR.2
5	CORRENTE DE RESTRIÇÃO INFERIOR Ø1.1/4" GF	2	GR.2
4	CORRENTE DE RESTRIÇÃO SUPERIOR Ø1.1/4" GF	2	GR.2
3	CORRENTE DE PESO Ø1.1/4" GF	2	GR.2
2	PAINEL METÁLICO 2500 X 6500 C/ CHANFROS	1	ASTM A36 / UHMW-PE
1	ELEMENTO DE BORRACHA CILINDRICO 1700H	1	ASTM A36 / BORRACHA
ITEM	DESCRIÇÃO	QTD	MATERIAL

CLIENTE: EMAP			
INSTALAÇÃO / LOCAL: BERÇO 100			
TÍTULO: ARRANJO GERAL SISTEMA DE DEFENSA CILINDRICA 1700			
-			
ESCALA:	1 : 60	DIMENSÕES:	MILIMETROS
DATA:	10/03/2020	FOLHA	1 / 1
Nº DESENHO:	DMA-026_2019-110.20		REV. 02

NOTAS GERAIS

- * Todas as dimensões estão em mm, ou conforme especificado.
- * Todas as vistas são escaladas conforme a folha, ou conforme especificado.

-	-	XX/XX/XXXX	-	-	-
-	-	XX/XX/XXXX	-	-	-
-	-	XX/XX/XXXX	-	-	-
-	-	XX/XX/XXXX	-	-	-
02	ALTERADO SUPORTE DE CORRENTE	11/08/2020	DBP	MFJ	MFJ
01	PARAMENTO REVISADO	25/07/2020	DBP	MFJ	MFJ
00	EMIÇÃO INICIAL	10/03/2020	DBP	MFJ	MFJ
REV.	DESCRIÇÃO	DATA	EXEC.	VERIF.	APROV.



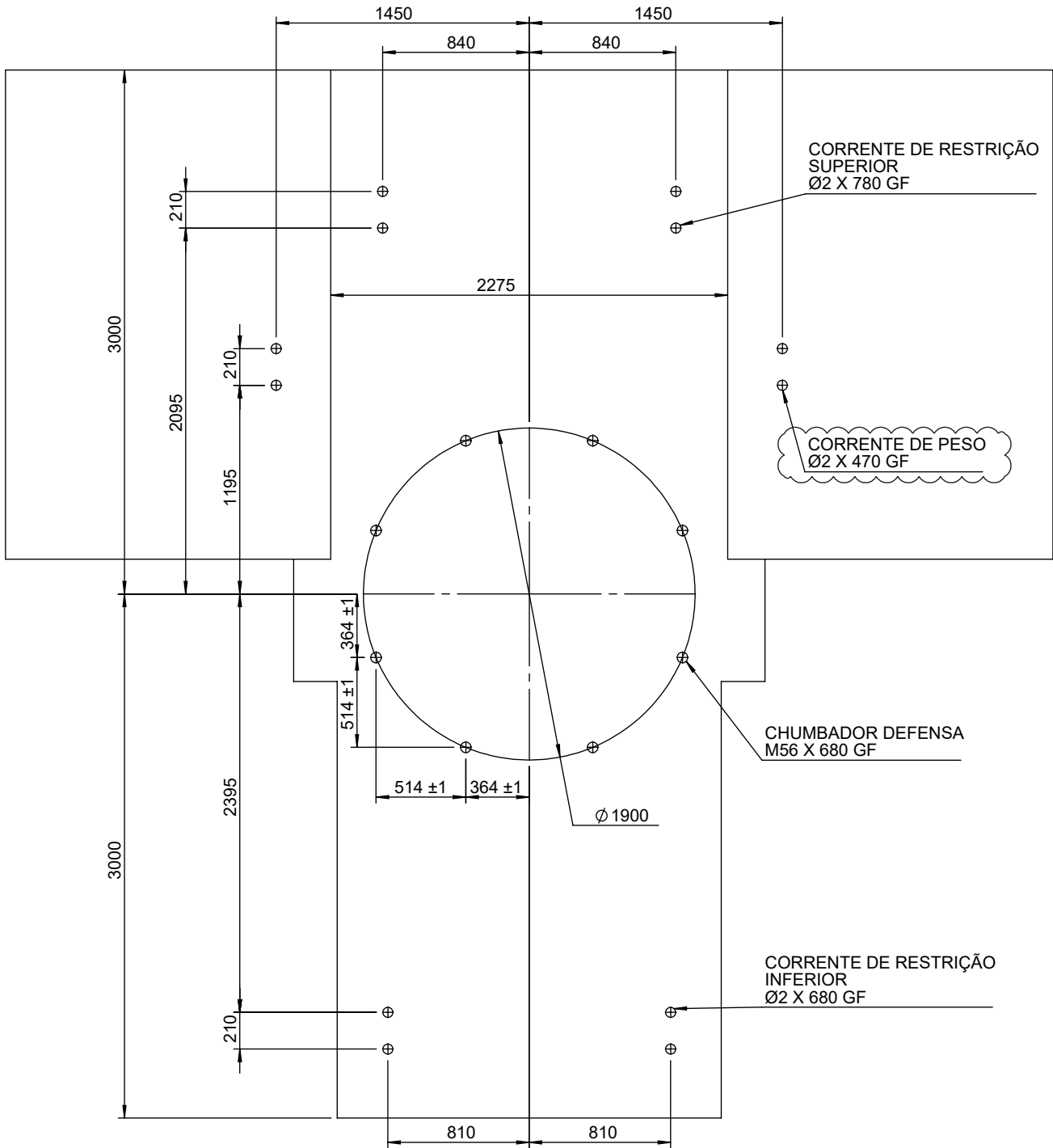
AS INFORMAÇÕES DESTE DOCUMENTO SÃO PROPRIEDADE DO GRUPO COPABO, SENDO PROIBIDA A SUA REPRODUÇÃO E UTILIZAÇÃO FORA DA SUA FINALIDADE.

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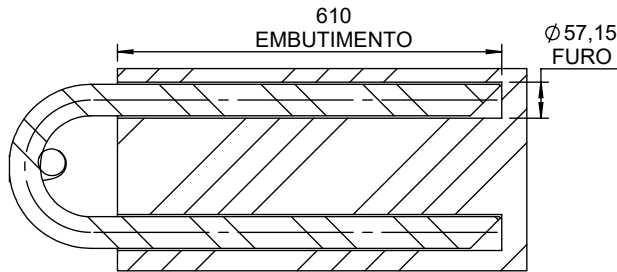
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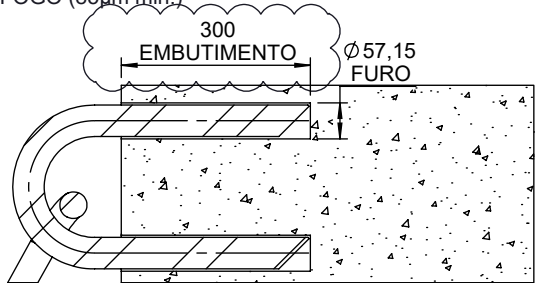


PARAMENTO
VISTA FRONTAL



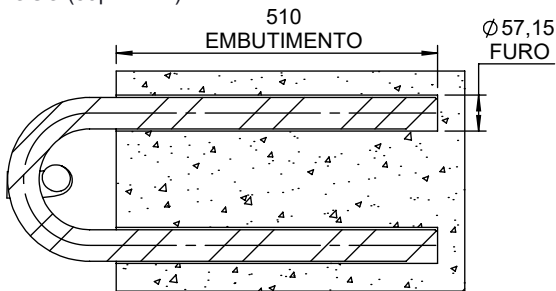
SUPORTE DE CORRENTE CONCRETO EXISTENTE Ø2 X 780 GF
(CORRENTE RESTRIÇÃO SUPERIOR)

MATERIAL: SAE 1045 - 8.8
ACABAMENTO: GALVANIZADO A FOGO (85µm min.)
QTD. SISTEMA: 2 PÇS
ESCALA: 1 : 12



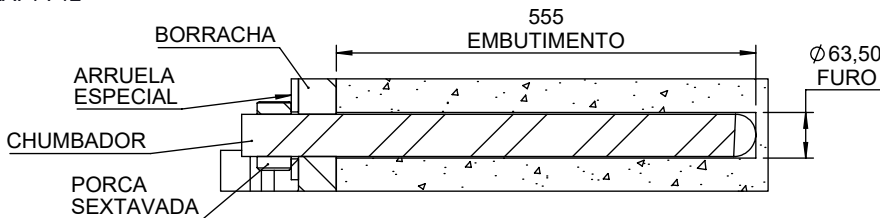
SUPORTE DE CORRENTE CONCRETO EXISTENTE Ø2 X 470 GF
(CORRENTE DE PESO)

MATERIAL: SAE 1045 - 8.8
ACABAMENTO: GALVANIZADO A FOGO (85µm min.)
QTD. SISTEMA: 2 PÇS
ESCALA: 1 : 12



SUPORTE DE CORRENTE CONCRETO EXISTENTE Ø2 X 680 GF
(CORRENTE RESTRIÇÃO INFERIOR)

MATERIAL: SAE 1045 - 8.8
ACABAMENTO: GALVANIZADO A FOGO (85µm min.)
QTD. SISTEMA: 2 PÇS
ESCALA: 1 : 12



CHUMBADOR CONCRETO EXISTENTE MA M56 X 680 GF

MATERIAL: SAE 1045 - 8.8
ACABAMENTO: GALVANIZADO A FOGO (85µm min.)
QTD. SISTEMA: 8 PÇS
ESCALA: 1 : 12

NOTAS GERAIS

* Todas as dimensões estão em mm, ou conforme especificado.
* Todas as vistas são escaladas conforme a folha, ou conforme especificado.

-	-	XX/XX/XXXX	-	-	-
-	-	XX/XX/XXXX	-	-	-
-	-	XX/XX/XXXX	-	-	-
-	-	XX/XX/XXXX	-	-	-
02	EMBUTIMENTO SUPORTE DE PESO	10/08/2020	DBP	MFJ	MFJ
01	PARAMENTO REVISADO	25/07/2020	DBP	MFJ	MFJ
00	EMISSÃO INICIAL	10/03/2020	DBP	MFJ	MFJ
REV.	DESCRIÇÃO	DATA	EXEC.	VERIF.	APROV.



CLIENTE:

EMAP

INSTALAÇÃO / LOCAL:

BERÇO 100

TÍTULO:

DETALHES
SISTEMA DE DEFENSA CILINDRICA 1700
DISPOSIÇÃO DE FUROS

ESCALA:

1 : 35

DIMENSÕES:

MILIMETROS

DATA:

10/03/2020

FOLHA

1 / 1

Nº DESENHO:

DMD-026_2019-112.20

REV.

02

D

C

B

A

CERTIFICADOS



烟台泰鸿橡胶有限公司
YANTAI TAIHONG RUBBER CO., LTD.



**RELATÓRIO DE
CONTROLE DE QUALIDADE
PARA
PO# 200108160**

(15TH May, 2020)



烟台泰鸿橡胶有限公司

YANTAI TAIHONG RUBBER CO., LTD.

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SECTION 1

ELEMENTOS DE BORRACHA

烟台泰鸿橡胶有限公司
YANTAI TAIHONG RUBBER CO., LTD.



烟台泰鸿橡胶有限公司
YANTAI TAIHONG RUBBER CO., LTD.

橡胶胶料检测报告
RUBBER MATERIAL TEST REPORT

报告日期 DATE OF REPORT		12 th MAY, 2020	使用单位 CUSTOMER	PO200108160	
产品名称 NAME OF PRODUCT		RUBBER FENDER	规格型号 SPECIFICATIONS	YGCH1700	
试验室温 TEMPERATURE		24°C	数量 QUANTITY	12 PCS	
试验编号 INSPECTION NO.		TH-2020-52			
胶料物理性能 PHYSICAL PROPERTIES OF RUBBER					
试验型号 TEST TYPE		YGCH1700		试验结论 RESULT OF TESTING	
项目 NO.	试验项目 TEST DESCRIPTION		试验方法 TEST STANDARD	标准值 STANDARD VALUE	实测值 ACTUAL VALUE
1	扯断强度 TENSILE STRENGTH (MPa)		ASTM D412	≥ 16	21.11
2	老化后 扯断强度 TENSILE STRENGTH AGED FOR 96 HOURS AT 70°C (MPa)		ASTM D412	≥ 12.8	20.85
3	扯断伸长率 ELONGATION AT BREAK (%)		ASTM D412	≥ 350	591.04
4	老化后扯断伸长率 ELONGATION AT BREAK AGED FOR 96 HOURS AT 70°C (%)		ASTM D412	≥ 280	568.65
5	硬度(邵氏A型) HARDNESS(SHORE A) (DEGREE)		ASTM D2240	≤ 78°	64°
6	老化后硬度(邵氏A型) HARDNESS AGED FOR 96 HOURS AT 70 °C (SHORE A) (DEGREE)		ASTM D2240	≤ 8°	2°
7	压缩永久变形 COMPRESSED PERMANENT DEFORMATION (%) (70°C × 22hr)		ASTM D395	≤ 30	21.46
8	耐臭氧 OZONE RESISTANCE (50pphm at 40°C at 20% strain for 48 hours)		ASTM D1149	NO CRACKING VISIBLE BY EYE	NO CRACKING VISIBLE BY EYE
9	耐撕裂 TEAR RESISTANCE(N/cm)		ASTM D624	≥ 70	105.42
10	耐海水 SEAWATER RESISTANCE AT 95°C × 28 DAYS		ASTM D1149	NO CRACKS	NO CRACKS
11	耐磨耗 ABRASION RESISTANCE(3000 revolutions)(cc)		BS903.A9 METHOD B	≤ 1.5	0.1
12	钢胶剥离强度 BOND STRENGTH(N/mm)		ASTM D429 METHOD B	≥ 7	17.14
13	检验技术标准 STANDARD OF INSPECTION	ASTM / BS903	备注 REMARK	<div>HAIRONG RUBBER 鸿橡胶有限公司 PASS</div>	

试验:
TESTER

张同云

审核:
CHECKED

张同云

666. vink
May. 12. 2020.





烟台泰鸿橡胶有限公司

YANTAI TAIHONG RUBBER CO., LTD.

编号:
REF.NO.

TH-202052

橡胶护舷力学性能曲线

FENDER COMPRESSION TEST

项目:
PROJECT:

PO200108160

规格型号:
MODEL:

YGCH1700

变形量RATED SET (%)

标准值
STANDARD VALUE

实测值
TEST VALUE

52.5

52.5

反力REACTION FORCE (KN)

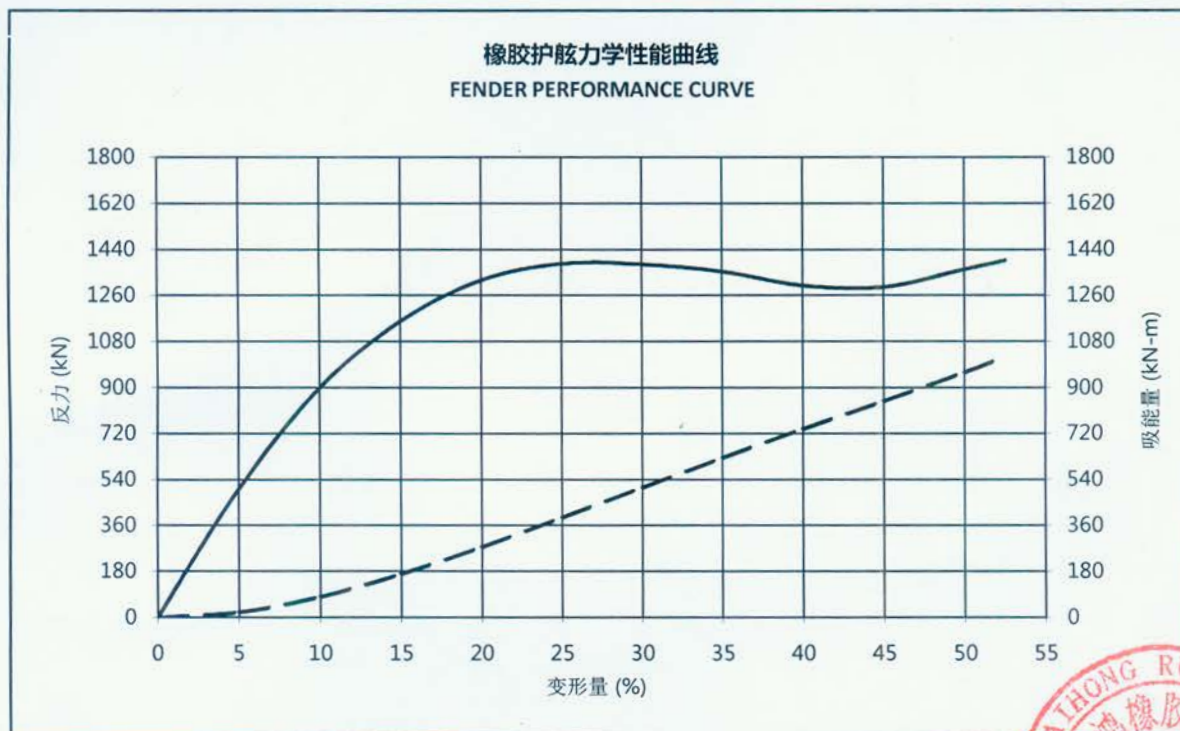
1366 ± 10%

1396.59

吸能量 ENERGY ABSORPTION (KN-M)

1018 ± 10%

1019.05



护舷序列号:

2020.4.9/3.1

FENDER SERIAL NO:

试验:
Test:

徐瑞

审核:
Checked:

王志强

SGS. 2020.4.12.
May. 12. 2020.





烟台泰鸿橡胶有限公司

YANTAI TAIHONG RUBBER CO., LTD.

编号:
REF.NO.

TH-202052

橡胶护舷力学性能曲线

FENDER COMPRESSION TEST

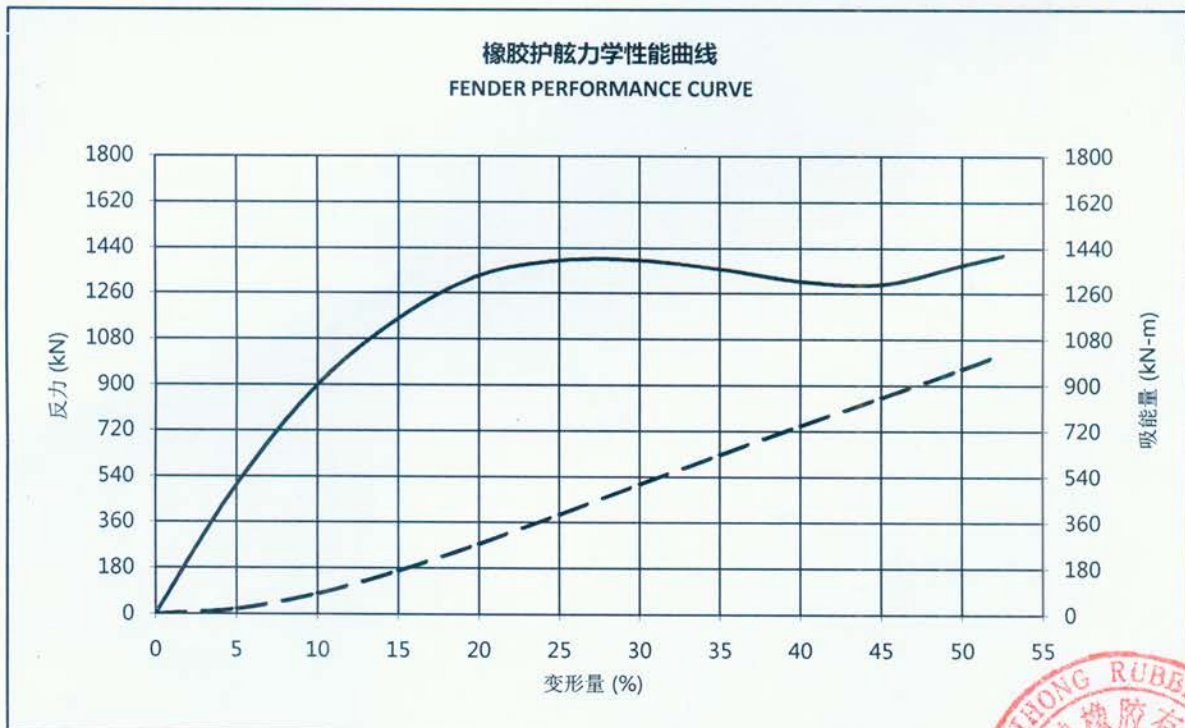
项目:
PROJECT:

PO200108160

规格型号:
MODEL:

YGCH1700

	标准值 STANDARD VALUE	实测值 TEST VALUE
变形量 RATED SET (%)	52.5	52.5
反力 REACTION FORCE (KN)	1366 ± 10%	1411.68
吸能量 ENERGY ABSORPTION (KN-M)	1018 ± 10%	1024.73



护舷序列号:

2020.4.21/2.1

FENDER SERIAL NO:

试验:
Test:

[Signature]

审核:
Checked:

[Signature]

SGH. Vda

May, 12, 2020.





烟台泰鸿橡胶有限公司

YANTAI TAIHONG RUBBER CO., LTD.

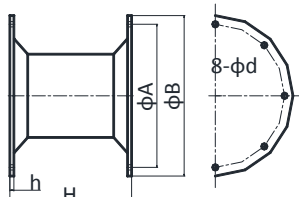
CELL FENDER DIMENSIONS CHECK

YGCH1700

SAMPLE QTY

12pcs

SERIAL NO.



PROJETO		200108160		QT. TOTAL	12pcs	MATERIAL	BORRACHA & Q235
MODELO		YGCH17000		QT. AMOSTRA	12pcs	N° SERIE	
		H	h	A		B	d
Dim.		1700	55	1900		2100	66
Tol.		+4%	+10%	+4		+4%	+2
		-2%	-5%	-4		-2%	-2
Faixa		1768	60	1904		2184	68
		Até	Até	Até		Até	Até
		1666	52	1896		2058	64
1	2020.4.9/3.1	1680	57	1898		2100	66
2	2020.4.10/2.1	1685	57	1900		2098	66
3	2020.4.14/1.1	1687	57	1900		2100	66
4	2020.4.16/1.1	1688	56	1901		2099	66
5	2020.4.17/2.1	1690	57	1899		2099	66
6	2020.4.21/1.1	1690	57	1898		2098	66
7	2020.4.21/2.1	1690	57	1900		2100	66
8	2020.4.22/2.1	1689	57	1901		2101	66
9	2020.4.23/1.1	1689	57	1900		2098	66
10	2020.4.24/1.1	1688	56	1902		2100	66
11	2020.4.26/2.1	1690	57	1898		2099	66
12	2020.5.6/2.1	1695	57	1901		2100	66

TODAS AS DIMENSÕES EM mm

FOTOS





SECTION 2

PAINEL FRONTAL

烟台泰鸿橡胶有限公司
YANTAI TAIHONG RUBBER CO., LTD.



烟台泰鸿橡胶有限公司
YANTAI TAIHONG RUBBER CO., LTD.

LISTA DOS CERTIFICADOS DOS MATERIAIS

NO.	ITEM	MATERIAL	SIDER. CERT. NO.	CORRIDA NO.	LOTE NO.
01	Chapa de Aço 8mm	Q345B	4291002776	19CD5713	4291005760
02	Chapa de Aço 10mm	Q345B	4291002058	19BD6796	4291000500
04	Prisioneiro M16 com Porca	304	ZM19081282	YA18225	ZB19070882



鞍钢股份有限公司
Angang Steel Company Limited

产品质量证明书

MILL TEST CERTIFICATE

中国辽宁省鞍山市铁西区鞍钢厂内 邮编114003
Angang Production Area, Tixi District, Anshan City, Liaoning Province, China
Tel 400-688-0898 Fax 0412-6728486

订货单位 Buyer	沈阳鞍钢国际贸易有限公司	中文产品名称 Product	低合金结构用钢	订单号 Order No.	194211332 - 14	证明书编号 Certificate No.	4291002058
收货单位 Consignee	德邻陆港(鞍山)有限责任公司代沈阳鞍钢国际贸易有限公司	英文产品名称 Product		商检批次号 Ins. Lot. No.		发货日期 Date of Delivery	2019-10-13
客户名称 Customer	50005345	生产许可证号 Licence No.		购单号 Purchase No.		到站 Destination	配送鞍山土产库
标准 Specification	GB/T 1591-2008	计重方式 Weight Mode	检斤 Actual Weight	总重量(kg) Total Weight	58,370	车号 Wagon No.	辽CB2072

序号 No.	钢牌号 Steel Grade	熔炼号 Heat No.	批号 Batch No.	规格 (mm*mm*mm) Size	卷/捆号 Coil/Pack No.	生产日期 MFG Date	重量(kg) Weight	卷/捆号 Coil/Pack No.	生产日期 MFG Date	重量(kg) Weight	卷/捆号 Coil/Pack No.	生产日期 MFG Date	重量(kg) Weight
1	Q345B	19CD5712	4291005760	8.00*1500*C	Y409804040	2019-10-10	29,210						
2	Q345B	19CD5713	4291005760	8.00*1500*C	Y409804050	2019-10-09	29,160						
3													

熔炼号 Heat No.	C 10 ⁻³	Si 10 ⁻³	Mn 10 ⁻²	P 10 ⁻³	S 10 ⁻³	Als 10 ⁻³	Nb 10 ⁻³	V 10 ⁻³	Ti 10 ⁻³	Cr* 10 ⁻³	Ni* 10 ⁻³	Cu* 10 ⁻³	Mo* 10 ⁻³	B 10 ⁻⁴	N 10 ⁻⁴	RE 10 ⁻⁴	Ceq 10 ⁻²	Pcm 10 ⁻²	10 ⁻⁴	10 ⁻⁴	10 ⁻⁴
19CD5712	80	140	95	17	10			2	41	20	10	10	2				24				
19CD5713	70	150	94	17	8			2	42	20	10	10	2				23				

批号 Batch No.	屈服 Y.S. MPa	抗拉 T.S. MPa	伸长 EL %	冷弯 Bend d=2a α=180°	冲击功(J) Impact Energy 20 °C	冲击剪切面积 Impact SA %	晶粒度 Grain Size	带状组织 Banded Structure	硬度 Hardness	低倍 Microstr- ucture	脱碳 Decarboni- zation	夹杂 Inclusion A B C D	落锤试验 DWTT(SA)% °C	屈强比 Y.S./T.S.
4291005760	471	549	26.5	合格	95 92 90									

备注 Remarks		冲口尺寸 Sample Size (mm)	10*5*55
注释 Notes	Y.S.=Yield Strength T.S.=Tensile Strength EL=Elongation * : not over 0.02% when not listed for American standard		

本产品已按上述标准要求制造和检验,其结果符合要求,特此证明。贵方查询有关问题,请与我公司联系。 We hereby certify that material described herein has manufactured and tested with satisfactory results in accordance with the requirements of the above material specification. If you have any questions, please contact our company.	发货单位 Deliver Department	鞍钢股份有限公司热轧带钢 Hot Strip Mill Plant of ANSTEEL		出口目的地 Export Destination	总件数 Total Pieces	2
	发货人 Deliverer	英伟	副厂长			
	检查人 Inspector	尚英明	Deputy Director			



鞍钢股份有限公司
Angang Steel Company Limited

产品质量证明书

MILL TEST CERTIFICATE

中国辽宁省鞍山市铁西区鞍钢厂区 邮编 114003
Angang Production Area, Tiexi District, Anshan City, Liaoning Province, China
Tel 400-688-0898 Fax 0412-6728486

订货单位 Buyer	沈阳鞍钢国际贸易有限公司	中文产品名称 Product	低合金结构用钢	订单号 Order No.	194211333 -04	证明书编号 Certificate No.	4291002771
收货单位 Consignee	德邻陆港(鞍山)有限责任公司代沈阳鞍钢国际贸易有限公司	英文产品名称 Product		商检批次号 Ins. Lot. No.		发货日期 Date of Delivery	2019-10-19
客户名称 Customer	50005345	生产许可证号 Licence No.		购单号 Purchase No.		到站 Destination	配送鞍山土产库
标准 Specification	GB/T 1591-2008	计重方式 Weight Mode	检斤 Actual Weight	总重量(kg) Total Weight	29,320	车号 Wagon No.	辽CB0353

序号 No.	钢牌号 Steel Grade	熔炼号 Heat No.	批号 Batch No.	规格 (mm*mm*mm) Size	卷/捆号 Coil/Pack No.	生产日期 MFG Date	重量(kg) Weight	卷/捆号 Coil/Pack No.	生产日期 MFG Date	重量(kg) Weight	卷/捆号 Coil/Pack No.	生产日期 MFG Date	重量(kg) Weight
1	Q345B	19BD6796	4291000500	10.00*1500*C	Y395717010	2019-10-02	29,320						
2													
3													

熔炼号 Heat No.	化学成分Chemical Composition(熔炼分析 Heat Analysis) %																				
	C 10 ⁻³	Si 10 ⁻³	Mn 10 ⁻²	P 10 ⁻³	S 10 ⁻³	Als 10 ⁻³	Nb 10 ⁻³	V 10 ⁻³	Ti 10 ⁻³	Cr* 10 ⁻³	Ni* 10 ⁻³	Cu* 10 ⁻³	Mo* 10 ⁻³	B 10 ⁻⁴	N 10 ⁻⁴	RE 10 ⁻⁴	Ceq 10 ⁻²	Pcm 10 ⁻²	10 ⁻⁴	10 ⁻⁴	10 ⁻⁴
19BD6796	70	140	93	14	9		15	0	38	0	10	10	0				23				

批号 Batch No.	屈服 Y.S.	抗拉 T.S.	伸长 EL	冷弯 Bend d=2a α=180°	冲击功(J) Impact Energy	冲击剪切面积 Impact SA	晶粒度 Grain Size	带状组织 Banded Structure	硬度 Hardness	低倍 Microstructure	脱碳 Decarbonization	夹杂 Inclusion	落锤试验 DWTT(SA)%	屈服比 Y.S./T.S.
	MPa		%		20 °C	%						A B C D	℃	
4291000500	476	571	24.5	合格	173	156	169							

备注 Remarks	
---------------	--

注释 Notes	Y.S.=Yield Strength T.S.=Tensile Strength EL=Elongation * : not over 0.02% when not listed for American standard
----------	--

本产品已按上述标准要求制造和检验,其结果符合要求,特此证明。贵方查询有关问题,请与我公司联系。 We hereby certify that material described herein has manufactured and tested with satisfactory results in accordance with the requirements of the above material specification. If you have any questions, please contact our company.				发货单位 Deliver Department	鞍钢股份有限公司热轧带钢 Hot Strip Mill Plant of ANSTEEL				出口目的地 Export Destination	总件数 Total Pieces	1
				发货人 Deliverer	邹林辉						
				检查人 Inspector	张晓君						



浙江腾龙精线有限公司

ZHEJIANG TENGLONG STAINLESS STEEL PRODUCTS CO., LTD

质量证明书

CERTIFICATE OF QUALITY

地址: 宁波市北仑区小港街道陈山东路69号

Add: No. 67-69, East Chen Shan Road, Beilun District, Ningbo, China. P. C 315803

Fax: 0574-86227999

Email: nbtl@nbt1.com.cn

Tel: 0574-86228228

Url: www.tenglonggroup.com

产品名称: 不锈钢丝/紧固件

客户名称: 浙江创利焊接科技股份有限公司

出货单号: Z020219081927

编号: ZM19081282

(Product) Stainless steel wire

(Messrs)

(OrderNo)

(No)

序号 No	订单号 (orderNo)	材质 Grade	种类 Sort	炉号 HeatNo	线径 Dia (mm)	重量 N. W (kg)	件数 Pcs	机械性能 (Mechanical properties)							
								抗拉强度 TS (Mpa)	屈服强度 YS (Mpa)	延伸率 EL (%)	断面收缩率 Z (%)	HRB	HRC	HV	HB
1	ZB19070882	304HC	NUT	YA18225	14.45	1954	4	650							
2															
3															
4															
5															
6															
7															

序号 No	炉号 HeatNo	化学成份 (%) Chemical Composition (%)												
		C	Si	Mn	P	S	Cr	Ni	Mo	Cu	N	Ti	Al	Nb
1	YA18225	0.028	0.38	0.72	0.033	0.001	18.22	8.05		2.51	0.048			
2														
3														
4														
5														
6														
7														
备注 Remarks:														

签证人:

name

签证部门: 品保部

Quality Assurance Dept.

签证日期: 2019.08.26

Date:





烟台泰鸿橡胶有限公司
YANTAI TAIHONG RUBBER CO., LTD.

RELATÓRIO DE TESTES DOS MATERIAIS DAS PLACAS UHMW-PE

Temperatura : 21°C

Aparência da Amostra = 40mm, Preto

Amostra No. : 2020Q-033001

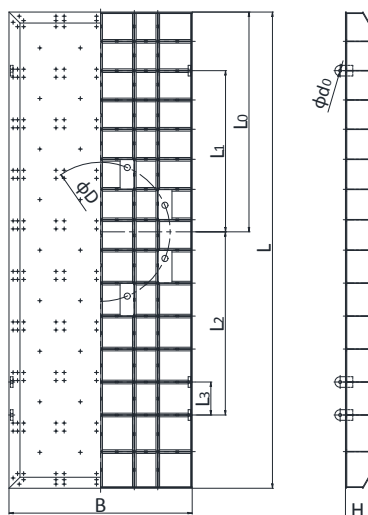
Data do relatório : 2020/03/30

	Test Method	Unit	Test Result
Descrição dos Itens	Metodo do Teste	Unid.	Resultados
Densidade	ASTM D-792	Kg/m3	949
Escoamento	ASTM D-638	Mpa	23
Ruptura	ASTM D-638	Mpa	27
Elongamento até Ruptura	ASTM D-638	%	369
Resistência ao Impacto	ASTM D-4020	KJ/M2	70
Dureza	ASTM D-2240	Type D	61
Coeficiente de Atrito Estático	ASTM D-1894	Unitless	0.12
Ponto de Derretimento	ASTM D-3417	°C	140
Absorção de Água	ASTM D-570	%	0.0095
Coeficiente de Expansão Térmica	ASTM D-696	°C	0.0002



烟台泰鸿橡胶有限公司
YANTAI TAIHONG RUBBER CO., LTD.

RELATÓRIO DE INSPEÇÃO DIMENSIONAL



PROJETO	200108160	QT. TOTAL	12pcs	MATERIAL	Q345, 304
ITEM	YGCH1700H	QT. AMOSTRA	12pcs	DWG. NO.	THXJ/03-21.11-01:2020

	B	L	H	D	L ₀	L ₁	L ₂	L ₃	d ₀	Aparência
Dim	2500	6500	326	1900	3000	2200	2500	450	42	Aprovado
Tol.	+11 -11	+14 -14	+4 - 4	+4 - 4	+11 -11	+11 -11	+11 -11	+4 - 4	+2 - 2	
Faixa	2511 Até 2489	6514 Até 6486	330 Até 322	1904 Até 1896	3011 Até 2989	2211 Até 2189	2511 Até 2489	454 Até 446	44 Até 40	
T01	2503	6504	326	1900	3004	2202	2500	450	42	Aprovado
T02	2502	6500	328	1902	3001	2200	2503	451	42	Aprovado
T03	2500	6503	325	1899	3000	2203	2498	450	42	Aprovado
T04	2502	6501	326	1900	3002	2198	2502	449	42	Aprovado
T05	2504	6498	326	1901	2998	2201	2502	452	42	Aprovado
T09	2499	6502	325	1902	3003	2199	2501	450	42	Aprovado
T07	2501	6498	326	1900	3004	2198	2503	451	42	Aprovado
T08	2503	6503	328	1898	2997	2203	2504	450	42	Aprovado
T09	2498	6505	327	1900	3002	2200	2497	448	42	Aprovado
T10	2504	6501	326	1902	3005	2202	2503	450	42	Aprovado
T11	2500	6502	326	1899	3000	2201	2501	451	42	Aprovado
T12	2503	6502	327	1901	3002	2203	2502	450	42	Aprovado

TODAS AS DIMENSÕES EM mm



烟台泰鸿橡胶有限公司
YANTAI TAIHONG RUBBER CO., LTD.

RELATÓRIO DE TESTE DE ESTANQUEIDADE

PROJETO	200108160		PRESS. TESTE :	0.05 MPa
ITEM /NO.:	YGCH1700 FRONTAL PANELT01~T05		DURAÇÃO :	15 MINUTES (MIN.)
DATA	04/2020	MEIO : AR COMPRIMIDO	TEMPERATURA :	14 °C

PAINEL FRONTAL T01

	DATA/HORA INICIO	DATA/HORA FIM	QUEDA PRESSÃO	RESULTADOS
1 ST TEST	4.26 8:00	4.26 8:15	0.005	REPROVADO
2 ND TEST	4.26 9:00	4.26 9:15	0	APROVADO
3 RD TEST				

PAINEL FRONTAL T02

	DATA/HORA INICIO	DATA/HORA FIM	QUEDA PRESSÃO	RESULTADOS
1 ST TEST	4.21 8:00	4.21 8:15	0.01	REPROVADO
2 ND TEST	4.21 9:00	4.21 9:15	0	APROVADO
3 RD TEST				

PAINEL FRONTAL T03

	DATA/HORA INICIO	DATA/HORA FIM	QUEDA PRESSÃO	RESULTADOS
1 ST TEST	4.23 17:00	4.23 17:16	0	APROVADO
2 ND TEST				
3 RD TEST				

PAINEL FRONTAL T04

	DATA/HORA INICIO	DATA/HORA FIM	QUEDA PRESSÃO	RESULTADOS
1 ST TEST	4.16 8:00	4.16 8:15	0	APROVADO
2 ND TEST				
3 RD TEST				

PAINEL FRONTAL T05

	DATA/HORA INICIO	DATA/HORA FIM	QUEDA PRESSÃO	RESULTADOS
1 ST TEST	4.26 8:00	4.26 8:15	0.01	REPROVADO
2 ND TEST	4.26 9:00	4.26 9:15	0	APROVADO
3 RD TEST				

CERTIFICAMOS QUE OS PAINÉIS FRONTAIS ACIMA FORAM SUBMETIDOS A TESTE DE ESTANQUEIDADE EM CONFORMIDADE COM OS REQUISITOS E APROVADOS SEM QUALQUER VAZAMENTO DE AR.



烟台泰鸿橡胶有限公司
YANTAI TAIHONG RUBBER CO., LTD.

RELATÓRIO DE TESTE DE ESTANQUEIDADE

PROJETO:	200108160	PRESS. TESTE :	0.05 MPa
ITEM /NO.:	YGCH1700 FRONTAL PANELT06~T10	DURAÇÃO :	15 MINUTES (MIN.)
DATA:	4.2020	MEIO: AR COMPRIMIDO	TEMPERATURA: 14 °C

PAINEL FRONTAL T06

	DATA/HORA INICIO	DATA/HORA FIM	QUEDA PRESSÃO	RESULTADOS
1 ST TEST	4.23 17:00	4.23 17:15	0	APROVADO
2 ND TEST				
3 RD TEST				

PAINEL FRONTAL T07

	DATA/HORA INICIO	DATA/HORA FIM	QUEDA PRESSÃO	RESULTADOS
1 ST TEST	4.17 17:00	4.17 17:15	0	APROVADO
2 ND TEST				
3 RD TEST				

PAINEL FRONTAL T08

	DATA/HORA INICIO	DATA/HORA FIM	QUEDA PRESSÃO	RESULTADOS
1 ST TEST	4.27 8:00	4.27 8:15	0.01	REPROVADO
2 ND TEST	4.27 9:00	4.27 9:15	0	APROVADO
3 RD TEST				

PAINEL FRONTAL T09

	DATA/HORA INICIO	DATA/HORA FIM	QUEDA PRESSÃO	RESULTADOS
1 ST TEST	4.21 18:00	4.21 18:15	0	APROVADO
2 ND TEST				
3 RD TEST				

PAINEL FRONTAL T10

	DATA/HORA INICIO	DATA/HORA FIM	QUEDA PRESSÃO	RESULTADOS
1 ST TEST	4.26 18:30	4.26 18:45	0	APROVADO
2 ND TEST				
3 RD TEST				

CERTIFICAMOS QUE OS PAINÉIS FRONTAIS ACIMA FORAM SUBMETIDOS A TESTE DE ESTANQUEIDADE EM CONFORMIDADE COM OS REQUISITOS E APROVADOS SEM QUALQUER VAZAMENTO DE AR.



烟台泰鸿橡胶有限公司
YANTAI TAIHONG RUBBER CO., LTD.

RELATÓRIO DE TESTE DE ESTANQUEIDADE

PROJETO:	200108160	PRESS. TESTE :	0.05 MPa
ITEM /NO.:	YGCH1700 FRONTAL PANELT11~T12	DURAÇÃO :	15 MINUTES (MIN.)
DATA:	4.2020	MEIO: AR COMPRIMIDO	TEMPERATURA: 15 °C

PAINEL FRONTAL T11

	DATA/HORA INICIO	DATA/HORA FIM	QUEDA PRESSÃO	RESULTADOS
1 ST TEST	4.23 8:00	4.23 8:15	0.01	REPROVADO
2 ND TEST	4.23 9:00	4.23 9:15	0	APROVADO
3 RD TEST				

PAINEL FRONTAL T12

	DATA/HORA INICIO	DATA/HORA FIM	QUEDA PRESSÃO	RESULTADOS
1 ST TEST	4.18 18:00	4.18 18:15	0	APROVADO
2 ND TEST				
3 RD TEST				

FRONTAL PANEL T

1 ST TEST				
2 ND TEST				
3 RD TEST				

FRONTAL PANEL T

1 ST TEST				
2 ND TEST				
3 RD TEST				

FRONTAL PANEL T

1 ST TEST				
2 ND TEST				
3 RD TEST				

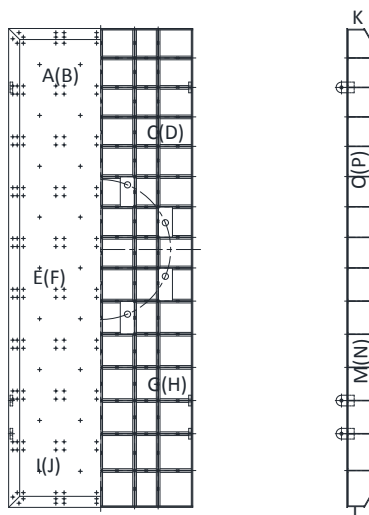
CERTIFICAMOS QUE OS PAINÉIS FRONTAIS ACIMA FORAM SUBMETIDOS A TESTE DE ESTANQUEIDADE EM CONFORMIDADE COM OS REQUISITOS E APROVADOS SEM QUALQUER VAZAMENTO DE AR.



烟台泰鸿橡胶有限公司

YANTAI TAIHONG RUBBER CO., LTD.

RELATÓRIO DE TRATAMENTO DE SUPERFÍCIE E PINTURA



PROJETO :			200108160							1 ST CAMADA 2 ND CAMADA 3 RD CAMADA			17634 (160 MICRONS) 17634 (160 MICRONS) 45880(130 MICRONS)			
ITEM			YGCH1700H FRONTAL PANEL													
QTD. TOTAL			12pcs	QTD. AMOSTRA			12pcs									
ESPESS. TOTAL			450MICRONS (MINIMO)													
T01	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
T02	471	456	537	452	457	558	456	478	462	502	482	524	537	462	510	462
T03	502	457	465	453	482	475	486	508	487	482	456	489	523	584	479	464
T04	447	463	493	478	582	467	471	483	451	458	466	462	525	537	492	488
T05	675	512	542	457	462	489	455	487	460	476	463	467	458	596	542	502
T06	457	483	462	482	485	469	493	534	493	512	485	563	572	612	458	612
T07	607	462	571	607	612	542	480	466	573	475	537	562	583	526	501	494
T08	612	517	510	462	582	470	500	482	542	463	576	475	481	548	582	514
T09	522	467	675	624	538	582	497	474	465	562	583	573	642	682	612	563
T10	473	524	689	576	607	461	585	576	502	455	481	470	460	456	472	462
T11	586	458	546	480	480	472	520	461	491	482	465	612	514	478	569	613
T12	462	524	583	474	492	460	502	482	482	524	496	482	495	502	520	467

TODAS AS DIMENSÕES EM MICRONS

海虹老人涂料(烟台)有限公司
中国 山东省
烟台市经济技术开发区珠江路12号
邮编:264006

电话: (86535) 693 6699
传真: (86535) 693 6688
电邮: China@hempel.com
纳税人 440100797392602
客户纳

HEMPEL.COM.CN



合格证

产品型号	颜色	批次号	验证日期
17636	11480	929100061	2019-10-14

产品名称
老人牌环氧漆

描述	检测值	单位	最小值	最大
粘度 VISC, KU - ASTM D 562	118	KU	102	123
比重 SPECIFIC GRAVITY - ISO 2811-1:2002	1.4950	G/ML	1.4500	1.5700
COLOURMATCH	pass	C		

海虹老人质量控制

yuaw

打印日期



“兹证明上述资料已经在经ISO9001:2015批准的海虹老人质量管理体系下被生产、测试和批准;它与各项说明和标准一致。

合格证

产品型号

97334

颜色

00000

批次号

609050764

验证日期

2019-06-02

到期日期

六月-2020

产品名称

老人牌固化剂

描述	检测值	单位	最小值	最大
粘度 VISC, KU - ASTM D 562	83	KU	80	87
比重 SPECIFIC GRAVITY - ISO 2811-1:2002	0.9520	G/ML	0.9400	0.9600

海虹老人质量控制

SYFQ



This is system auto generated. No signature is required.

*兹证明上述资料已经在经ISO9001:2015批准的海虹老人质量管理体系下被生产、测试和批准;它与各项说明和标准一致。

海虹老人涂料(烟台)有限公司
中国 山东省
烟台市经济技术开发区珠江路12号
邮编:264006

HEMPEL.COM.CN

电话: (86535)693 6699
传真: (86535)693 6688
电邮: China@hempel.com
纳税人 440100797392602
客户纳



合格证

产品型号	颜色	批次号	验证日期
45889	89930	929080486-T	2019-06-08

产品名称	有色项已发货
老人牌环氧厚浆漆	45880472400020 :

描述	检测值	单位	最小值	最大
细度 Fineness of grind - ISO 1524-2000	50	mym	0	50
粘度 VISC, KU - ASTM D 562	110	KU	105	120
比重 SPECIFIC GRAVITY - ISO 2811-1:2002	1.5380	G/ML	1.4900	1.5700
流挂 SAG 2M/2000R - ASTM D 4400-99	45	MILS	45	80

此颜色可采用电脑调色系统生产。此表中的数据是从生产用电脑调色基料获得

海虹老人质量控制

yuaw



打印日期

2019-06-08

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合格证

产品型号	颜色	批次号	验证日期
95880	00000	929080058	2019-08-02

产品名称
老人牌固化剂

描述	检测值	单位	最小值	最大
比重 SPECIFIC GRAVITY - ISO 2811-1:2002	0.9770	G/ML	0.9700	0.9900

海虹老人质量控制

yuaw

打印日期

2019-08-06



“兹证明上述资料已经在经ISO9001:2015批准的海虹老人质量管理体系下被生产、测试和批准,与各项说明和标准一致。”



烟台泰鸿橡胶有限公司
YANTAI TAIHONG RUBBER CO., LTD.

UHMW-PE Pad Material Test Report

Test Temperature: 21℃

Appearance of specimen: 40mm, black

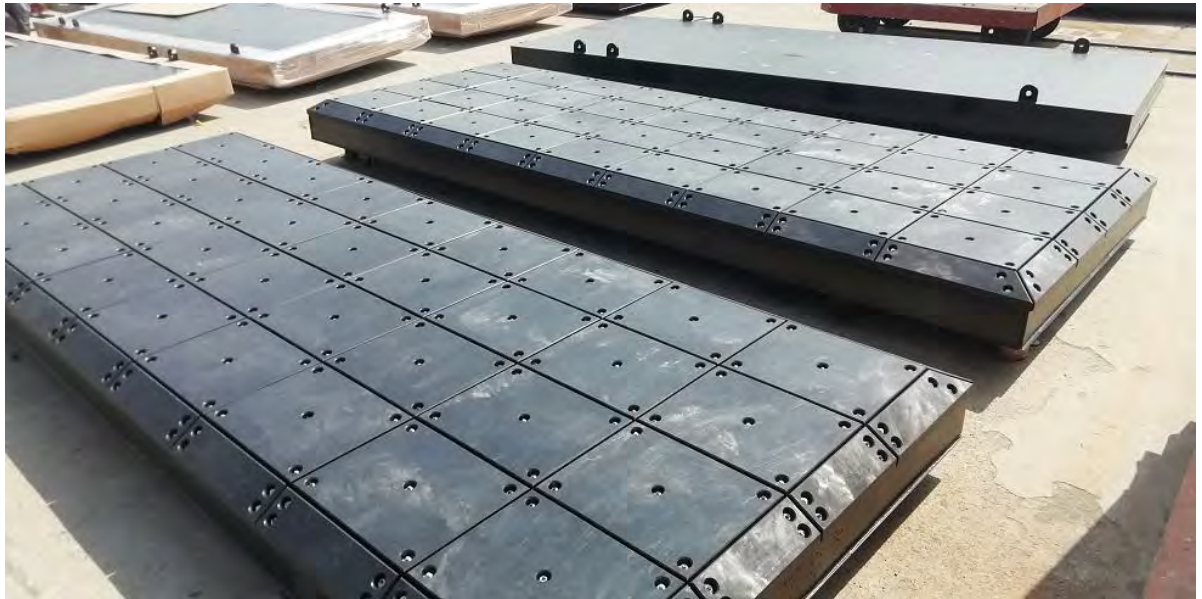
Specimen No.: 2020Q-033001

Report Date: 2020/03/30

Test Items	Test Method	Unit	Test Result
Density	ASTM D-792	Kg/m3	949
Yield Streth	ASTM D-638	Mpa	23
Ultimate Strength	ASTM D-638	Mpa	27
Elongation at break	ASTM D-638	%	369
Impact Strength Resistance	ASTM D-4020	KJ/M2	70
Hardness	ASTM D-2240	Type D	61
Static Friction Coefficient	ASTM D-1894	Unitless	0.12
Melt Point	ASTM D-3417	℃	140
Water Absorption	ASTM D-570	%	0.0095
Thermal expansion coefficient	ASTM D-696	℃	0.0002



FOTOS





SECTION 3

ACESSÓRIOS

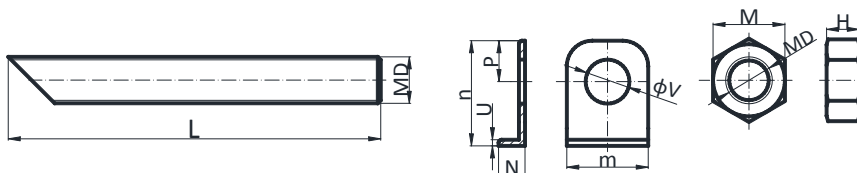
烟台泰鸿橡胶有限公司
YANTAI TAIHONG RUBBER CO., LTD.



烟台泰鸿橡胶有限公司

YANTAI TAIHONG RUBBER CO., LTD.

Chumbador/Porca/Arruela - INSPEÇÃO DIMENSIONAL



PROJETO	200108160	QTD. TOTAL	96 cj	MATERIAL	Grade 8.8/8.0, Q235 H.D.G.
ITEM	For YGCH1700	QTD. AMOSTRA	8 cj	DIMENSÃO	M56

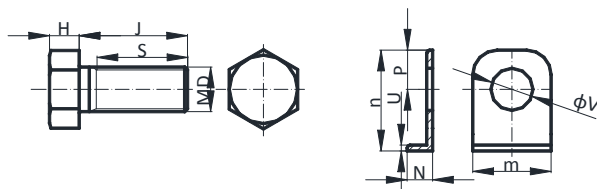
	D	L	M	H	m	N	n	p	U	V	GALVANIZ. Espessura	APARÊNCIA
Dim	M56	680	85	45	105	40	165	55	8	62	75µm	Bom
01	M56	682	84.6	45.2	105	40	164	55	7.9	62	78~128	Bom
02	M56	680	84.6	45.0	105	39	165	55	8.2	62	76~125	Bom
03	M56	680	84.5	44.8	104	39	165	55	8.1	62	78~126	Bom
04	M56	681	84.6	45.3	105	40	165	55	7.8	62	77~128	Bom
05	M56	678	84.6	45.1	104	40	165	55	7.9	62	80~127	Bom
06	M56	681	84.7	45.1	105	40	164	55	7.8	62	77~124	Bom
07	M56	680	84.5	44.9	105	39*	165	55	8.2	62	76~125	Bom
08	M56	679	84.6	45.2	105	40	164	55	7.9	62	81~127	Bom

DIMENSÕES EM mm



烟台泰鸿橡胶有限公司
YANTAI TAIHONG RUBBER CO., LTD.

Chumbador/Porca/Arruela - INSPEÇÃO DIMENSIONAL



PROJETO	200108160	QTD. TOTAL	92 cj	MATERIAL	Q235H.D.G.
ITEM	For YGCH1700	QTD. AMOSTRA	8 cj	DIMENSÃO	M56

	H	J	S	m	N	n	p	U	V	GALVANIZ. Espessura	APARÊNCIA
Dim	35	135	110	105	40	165	55	8	62	75µm	Bom
01	35.2	135	110	105	40	165	55	8.2	62	78~124	Bom
02	35.1	134	111	105	40	165	55	7.9	62	78~131	Bom
03	35.1	135	110	105	40	165	55	8.1	62	81~129	Bom
04	35.3	135	110	104	39	165	54	8.2	62	76~128	Bom
05	34.8	135	109	105	40	164	55	7.8	62	81~130	Bom
06	34.9	136	110	105	40	165	55	7.8	62	78~122	Bom
07	35.2	135	109	104	40	165	55	7.9	62	79~128	Bom
08	34.8	135	110	105	39	165	54	8.1	62	78~126	Bom

DIMENSÕES EM mm



石家庄钢铁股份有限公司

产品质量证明书

首钢公司
品质原字 051 表



NO. 1441

CSGGS SHIJIAZHUANG IRON & STEEL HOLDINGS LTD

CERTIFICATE OF QUALITY AND QUANTITY

收货单位 河北东安实业有限公司

牌号	45	执行标准	GB/T699-1999	发货日期	17/04/19
规格	Φ55 mm	表面质量	合格	发货备注	
数量	20.247 吨	产品名称	优质碳素结构钢		
件数	10	交货状态	热轧	编号	214772

炉号 5E0885H		件数 1							
化学成份 (%)	C	Si	Mn	P	S	Cr	Ni	Cu	
	0.44	0.25	0.66	0.016	0.011	0.15	0.010	0.02	
力学性能	下屈服强度ReL (MPa)		抗拉强度Rm (MPa)		断后延伸率A (%)		断面收缩率Z (%)		
	合格		合格		合格		合格		
低倍组织 (级)	一般疏松		中心疏松		偏析		热顶锻		
	0.0		1.5		0.0		合格		
	0.0		1.0		0.5				

炉号 5E08900		件数 4							
化学成份 (%)	C	Si	Mn	P	S	Cr	Ni	Cu	
	0.46	0.25	0.66	0.011	0.006	0.12	0.010	0.02	
力学性能	下屈服强度ReL (MPa)		抗拉强度Rm (MPa)		断后延伸率A (%)		断面收缩率Z (%)		
	合格		合格		合格		合格		
低倍组织 (级)	一般疏松		中心疏松		偏析		热顶锻		
	0.0		1.5		0.0		合格		
	0.5		1.0		0.0				

单位负责人: 陈俊芬

审核: 李建林

制表: 刘明华

日期: 17/04/19

第 1 页

注: 本产品质量证明书须经质检部门盖章有效

公司地址: 河北省石家庄市和平东路 363 号 邮编: 050031

联系电话: (0311)6913195





鞍钢股份有限公司
Angang Steel Company Limited

产品质量证明书

MILL TEST CERTIFICATE

中国辽宁省鞍山市铁西区鞍钢厂区 邮编 114003
Angang Production Area, Tiexi District, Anshan City, Liaoning Province, China
Tel 400-688-0898 Fax 0412-6728486

订货单位 Buyer	沈阳鞍钢国际贸易有限公司	中文产品名称 Product	普通碳素结构钢	订单号 Order No.	192610376-06	证明书编号 Certificate No.	2690700805
收货单位 Consignee	德邻陆港(鞍山)有限责任公司代沈阳鞍钢国际贸易有限公司(建发(天津)有限公司)	英文产品名称 Product		商检批次号 Ins.Lot.No.		发货日期 Date of Delivery	2019-07-14
客户名称 Customer	60006823	生产许可证号 Licence No.		购单号 Purchase No.		到站 Destination	配送鞍山土产库
标准 Specification	GB/T 3274-2017	计重方式 Weight Mode	检斤 Actual Weight	总重量(kg) Total Weight	20,790	车号 Wagon No.	辽CB0377


序号 No.	钢牌号 Steel Grade	熔炼号 Heat No.	批号 Batch No.	规格 (mm*mm*mm) Size	卷/捆号 Coil/Pack No.	生产日期 MFG Date	重量(kg) Weight	卷/捆号 Coil/Pack No.	生产日期 MFG Date	重量(kg) Weight	卷/捆号 Coil/Pack No.	生产日期 MFG Date	重量(kg) Weight
1	Q235B	198D4954	2690702210	8.00*1500*C	9280C01040	2019-07-09	20,790						
2													
3													

熔炼号 Heat No.	化学成分Chemical Composition(熔炼分析 Heat Analysis) %																				
	C 10 ⁻³	Si 10 ⁻³	Mn 10 ⁻²	P 10 ⁻³	S 10 ⁻³	Als 10 ⁻³	Nb 10 ⁻³	V 10 ⁻³	Ti 10 ⁻³	Cr 10 ⁻³	Ni 10 ⁻³	Cu 10 ⁻³	Mo 10 ⁻³	B 10 ⁻⁴	N 10 ⁻⁴	RE 10 ⁻⁴	Ceq 10 ⁻²	Pcm 10 ⁻²	10 ⁻⁴	10 ⁻⁴	10 ⁻⁴
198D4954	150	150	23	22	6																

批号 Batch No.	屈服 Y.S.	抗拉 T.S.	伸长 EL	冷弯 Bend d=	冲击功(J) Impact Energy	冲击剪切面积 Impact SA	晶粒度 Grain Size	带状组织 Banded Structure	硬度 Hardness	低倍 Microstr- ucture	脱碳 Decarboni- zation	夹杂 Inclusion	落锤试验 DWTT(SA)%	屈服比 Y.S./T.S.
	MPa		%	α=	20 °C	%						A B C D	°C	
2690702210	309	462	30.5		79 85 78									

备注 Remarks: 性能符合订货标准要求

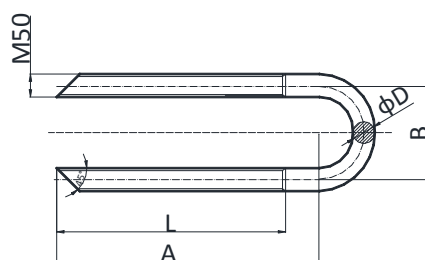
注释 Notes: Y.S.=Yield Strength T.S.=Tensile Strength EL=Elongation

本产品已按上述标准要求制造和检验,其结果符合要求,特此证明。贵方查询有关问题,请与我公司联系。 We hereby certify that material described herein has manufactured and tested with satisfactory results in accordance with the requirements of the above material specification. If you have any questions, please contact our company.	发货单位 Deliver Department	鞍钢股份有限公司热轧带钢 Hot Strip Mill Plant of ANSTEEL			出口目的港 Export Destination	
	发货人 Deliverer	黄宝江	副厂长 Deputy Director		总件数 Total Pieces	1
	检查人 Inspector	王玉红				



烟台泰鸿橡胶有限公司
YANTAI TAIHONG RUBBER CO., LTD.

OLHAL TIPO U - INSPEÇÃO DIMENSIONAL



PROJETO	200108160	QTD. TOTAL	72 pçs	MATERIAL	Q235BH.D.G.
ITEM	YGCH1700	QTD. AMOSTRA	5pcs	ROSCA	M50

	D	L	A	B		GALVANIZ. Espessura	APARÊNCIA
Dim	50	560	650	210		75µm	Bom
01	50.2	560	651	212		77~125	Bom
02	50.1	561	651	210		76~127	Bom
03	50.1	560	650	212		78~130	Bom
04	50.1	559	652	208		77~128	Bom
05	50.2	562	650	211		78~131	Bom

DIMENSÕES EM mm

河北凌飞轧材有限公司

产 品 质 量 证 明 书

此 产 品 符 合 国 家 标 准 检 验 合 格 特 发 此 证

收货单位：烟台优特钢铁销售有限公司

品 名：热轧圆钢

检查依据：GB/T 700-2006

2019 年 12 月 13 日

车号：冀 EP6328

炉 批 号	钢 号	规 格	数 量		交 货 状 态	化 学 成 份 (%)					力 学 性 能				
			件	重量 (吨)		C	Mn	Si	P	S		Ob (MPa)	OS (MPa)	OS	冲击值 (j)
B8351	Q235 (B)	Φ45	2		热轧	0.16	0.37	0.16	0.032	0.035		417	235	36	28/83/30
B8753	Q235 (B)	Φ50	2		热轧	0.17	0.36	0.17	0.034	0.034		416	225	35	28/83/30
B8863	Q235 (B)	Φ55	2		热轧	0.16	0.37	0.16	0.032	0.035		417	235	36	28/83/30
B5641	Q235 (B)	Φ60	2		热轧	0.16	0.37	0.16	0.032	0.035		417	235	36	28/83/30
B7623	Q235 (B)	Φ65	2	34.51	热轧	0.16	0.37	0.16	0.032	0.035		417	235	36	28/83/30

主管：韩好信

检查员：韩平元

单位（签章）

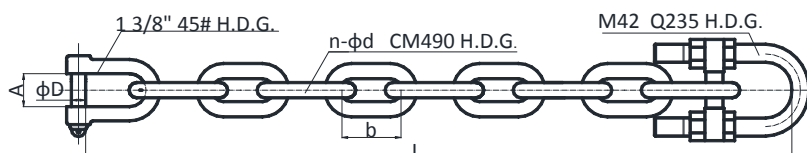
（请在该标准规定范围内使用，由于选材不当或过载使用造成的问题不做质量异议处理；无单位质量证明章无效。）



烟台泰鸿橡胶有限公司

YANTAI TAIHONG RUBBER CO., LTD.

CORRENTES - INSPEÇÃO DIMENSIONAL



PROJETO	200108160	QTD. TOTAL	48+24Pcs	MATERIAL	CM490 /45#/Q235B H.D.G.
ITEM	YGCH1700	QTD. AMOSTRA	5+3Pcs	DIMENSÃO	Dia.32,W1 3/8"

CORRENTE RESTRIÇÃO	d	b	n	A	D	L	GALVANIZ. Espessura	APARÊNCIA
Dim	32	128	9	57.15	38.1	1434~1561	$\geq 75 \mu m$	Bom
01	32.1	128	9	57	38.2	√	82~127	Bom
02	32.3	129	9	58	38.1	√	78~126	Bom
03	32.2	129	9	57	38.1	√	82~126	Bom
04	32.2	128	9	57	37.9	√	80~124	Bom
05	32.3	128	9	57	38.2	√	79~134	Bom
CORRENTE PESO	d	B	N	A	D	L		
Dim	32	128	27	57.15	38.1	3738~3865	82~126	Bom
01	32.3	129	27	58	38.1	√	81~128	Bom
02	32.1	128	27	57	38.2	√	83~127	Bom
03	32.2	128	27	57	37.9	√	81~125	Bom

DIMENSÕES EM mm



INSPECTION CERTIFICATE

地址：山东省青岛市黄岛区泊里镇集成路1886号
ADD: No.1886 Jicheng Road, Huangdao District, Q'ngdao City, CHINA
TEL: (0532)58815222 FAX: (0532)58816212

QR10-74/1-17

合同号:
Contract No.
交货状态:
Condition
收货单位: 青岛申荣钢铁有限公司
Sold To

产品名称: 合金结构钢圆钢
Description of Goods
用途: 船用锚链圆钢
Usage

规格(长度): $\Phi 32\text{mm} \times 9000\text{mm}$
Size(L)
钢号: CM 490
Grade
热处理号:
Heat treat No.

质保书号: 181112R00015
Sheet No.
执行标准: GB/T 18669-2012
Specification
生产许可证:
Production Permit No.

181112R00013

[illegible][illegible]

兹证明本表所列产品, 均依材料规格制造及试验, 并且符合规范之要求。WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT (ECCA) OF THE ABOVE MATERIAL SPECIFICATION.

说明

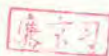
备注

声明:未经许可,本产品未经加工不允许直接出口到其他国家和地区

签发日期: 20181112
Issued Date

责任人: 康智清
Principal

签发人:
Signature



质量部门盖章有效
Stamp of Department
of
Quality Assurance