

No.: SC091221455

Date: Dec. 23,2009

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TANCHOR CHANNELS CO., LTD 3F. BUILDING 3, NO 1221 YAN AN XI RD SHANGHAI

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name

: Tanchor

Sample Number

: SC091221455

Product Specification

HBC52/26

Product or Lot No.

Hot rolled

Manufacturer

TANCHOR CHANNELS CO., LTD

Material and Mark

Q235

Test Required

Chemical composition analysis, Tensile test, Adhesion test,

Neutral salt spray test (NSS), Coating thickness test

Date of Receipt

Dec. 8,2009

Test Period

Dec. 8.2009 to Dec. 23,2009

Test result(s)

For further details, please refer to the following page(s)

****** To be continued******

Signed for SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd

Sally Vie

Authorized signatory

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1. Chemical composition analysis:

Test method: OES

Element	С	Si	Mn	Р	S
Result,%	0.11	0.16	0.40	0.027	0.013

2. Tensile test:

Test method: ISO 898-1:2009

Test item	Tensile strength (R _m) (N/mm ²)	Yield strength (R _{eL}) (N/mm²)	Elongation after fracture(A) Gauge length=50mm,(%)
Result	471	376	24.5

3. Adhesion test:

Test method: ASTM D 3359-09 method B Sample Description: Coated metal part

Lab Environmental Condition: 23± 2°C, 50± 5%RH

Test Condition:

Tape: 3M[®] 610[#]
Space: 2mm
Test Result: 5B

Note: According to ASTM D3359-09 method B, in the adhesion classification—5B is the best, 0B is the worst.

****** To be continued******

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4. Neutral salt spray test (NSS):

Test method: EN ISO 9227:2006

Concentration of solution collected: (50±5) g/L NaCl

Chamber temperature: (35±2)°C

Volume of salt solution collected: (1.5±0.5)mL /(80cm²·h)

pH of collected solution at (25±2)°C: 6.5~7.2

Exposure period: 150h

Test result(s):

Sample	Exposure period	Appearance rating
Tanchor	150h	Appear white rust ,no red rust.Area of defects is >50%, rating is 0.

Note: Appearance rating refers to EN ISO 10289:2001, as follows

Area of defects A%	Appearance Rating
No defects	10
0 <a≤0. 1<="" td=""><td>9</td></a≤0.>	9
0.1 <a≤0.25< td=""><td>8</td></a≤0.25<>	8
0.25 <a≤0.5< td=""><td>7</td></a≤0.5<>	7
0.5 <a≤1.0< td=""><td>6</td></a≤1.0<>	6
1.0 <a≤2.5< td=""><td>5</td></a≤2.5<>	5
2.5 <a≤5.0< td=""><td>4</td></a≤5.0<>	4
5.0 <a≤10.0< td=""><td>3</td></a≤10.0<>	3
10.0 <a≤25< td=""><td>2</td></a≤25<>	2
25 <a≤50< td=""><td>1</td></a≤50<>	1
50 <a< td=""><td>0</td></a<>	0

******* To be continued******

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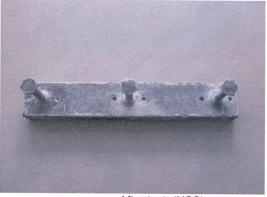
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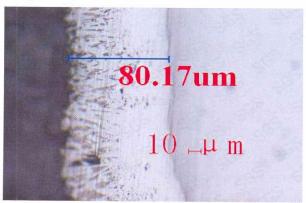
Before test (NSS)

After test (NSS)

5. Coating thickness test:

Test method: EN ISO 1463:2004

Result,(µm)				Average thickness (µn	
80.3	80.2	80.2	80.1	80.2	80.2



Coating photo To be continued*******

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Sample photo ****** End of report ******

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