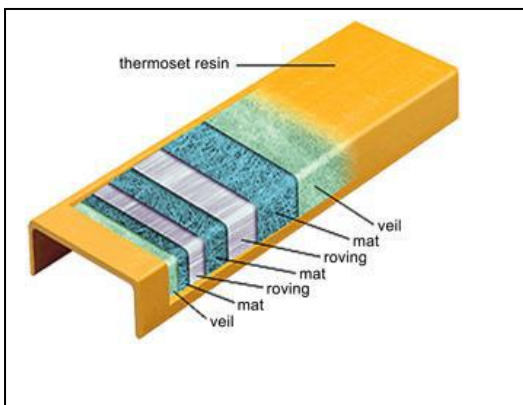


## Staircare SC-R UV Protection

### ***UV Protection***

UV inhibitors are mixed into the resin and also into a synthetic surfacing veil that is incorporated ensuring optimum protection from UV radiation and the harsh outdoors.

As an option Staircare offers an additional UV coating that can be applied to products with extreme UV exposure, such as off-shore platforms etc



### ***UV Test Reports***

Accelerated weathering testing in accordance with ASTM G 154 and test for colour fastness ISO 105 – A02 1993/COR 2:2005 have been conducted on Staircare SC-R 50 x 50 x 5mm FRP square hollow section and SC-R 38 x 38 x 38mm thick square mesh with girt

According to ISO 105 – A02: 1993/ COR 2: 2005 the grey scale was determined under standard light, with scale 5 as the best and scale 1 as the worst.

# SC-R 50 X 50 X 5mm FRP Square Hollow Section Light Aging Test – UV Exposure: Grey Scale Score 4



## TEST REPORT

No. : SUIN1906004271MR

Date : Jul 05, 2019

Page: 3 of 5

Test Item: Light Ageing Test-UV Exposure

Sample Description: Yellow plastic parts

Test Method: ASTM G154-16 Cycle 1

Test Condition:

Exposure cycle:

ASTM G154-16 Cycle 1

Lamp type: UVA-340

8h UV at (60±3)°C BPT, (0.89±0.02)W/(m²·nm)@340nm

4h condensation at (50±3)°C BPT

Exposure duration: 400h

Test Result:

Test Item	Grey scale
Light Ageing Test-UV Exposure	4

Note:

1. According to ISO 105-A02:1993/Cor.2:2005, the grey scale was determined under the D65 standard light, with scale 5 as the best and scale 1 as the worst.
2. The results were carried out within 1 hour after above specified durations for the intermediate inspection as well as at the end of the exposure.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/eng/terms-and-conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/eng/terms-and-conditions/terms-and-conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction clauses therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not constitute part of a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

SGS (China) Inspection & Testing Services Co., Ltd.  
Building 12, New Industry Square, No.73 Xingye Street, SP, Suzhou, China 215021    t: (86-512) 62988200    f: (86-512) 62988212    www.sgs.com.cn  
中国·苏州·工业园区新港73号新兴产业工业坊12号厂房    邮编: 215021    t: (86-512) 62988200    f: (86-512) 62988212    e: sgs.china@sgs.com

Member of the SGS Group (SGS SA)

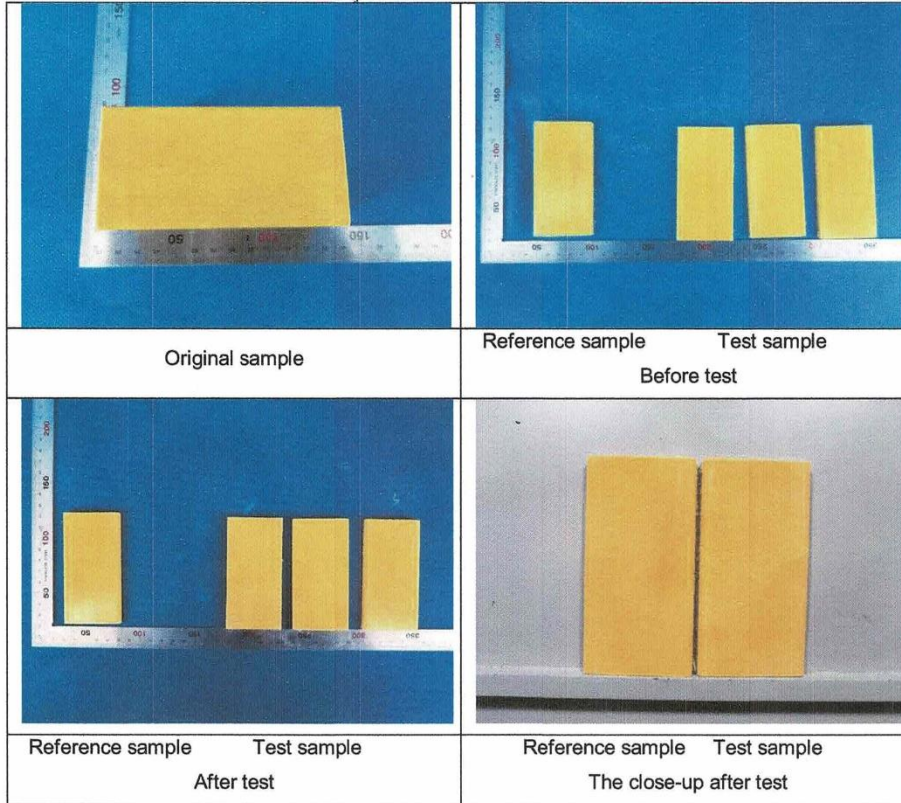
## TEST REPORT

No. : SUIN1906004271MR

Date : Jul 05, 2019

Page: 4 of 5

Test Photo:



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/ter> Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/terms-and-conditions/terms-e-document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8397 1443, or email: [CN\\_Document@sgs.com](mailto:CN_Document@sgs.com)

Building 12, New Industry Square, No.79 Xinyin Street, SIP, Suzhou, China, 215021    t (86-512) 62988200    f (86-512) 62988212    www.sgs.com.cn  
 中国·苏州·工业园区杏林街79号新兴产业工业坊12号厂房    邮编: 215021    t (86-512) 62988200    f (86-512) 62988212    e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)

# SC-R 38 x 38 x38mm thick FRP Sqaure Mesh

## Light Aging Test – UV exposure : Grey scale score 3 – 4



### TEST REPORT

**No. :** SUIN1906004266MR  
**Date :** Jul 05, 2019  
**Page:** 3 of 5

Test Item: Light Ageing Test-UV Exposure  
 Sample Description: Yellow plastic parts  
 Test Method: ASTM G154-16 Cycle 1  
 Test Condition:

Exposure cycle:  
 ASTM G154-16 Cycle 1  
 Lamp type: UVA-340  
 8h UV at (60±3)°C BPT, (0.89±0.02)W/(m<sup>2</sup>·nm)@340nm  
 4h condensation at (50±3)°C BPT  
 Exposure duration: 400h

**Test Result:**

Test Item	Sample size	Grey scale
Light Ageing Test-UV Exposure	38×38×38	3-4

**Note:**

1. According to ISO 105-A02:1993/Cor.2:2005, the grey scale was determined under the D65 standard light, with scale 5 as the best and scale 1 as the worst.
2. The results were carried out within 1 hour after above specified durations for the intermediate inspection as well as at the end of the exposure.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/terms-and-conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/terms-and-conditions/terms-and-conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Building 12, New Industry Square, No.78 Xinglin Street, Suzhou, China. 215021 | (86-512) 62988200 | (86-512) 62988212 | www.sgs.com.cn  
 中国·苏州·工业园区吉胜街78号新兴产业工业坊12号厂房 邮编: 215021 | (86-512) 62988200 | (86-512) 62988212 | e.sgs.china@sgs.com

Member of the SGS Group (SGS SA)

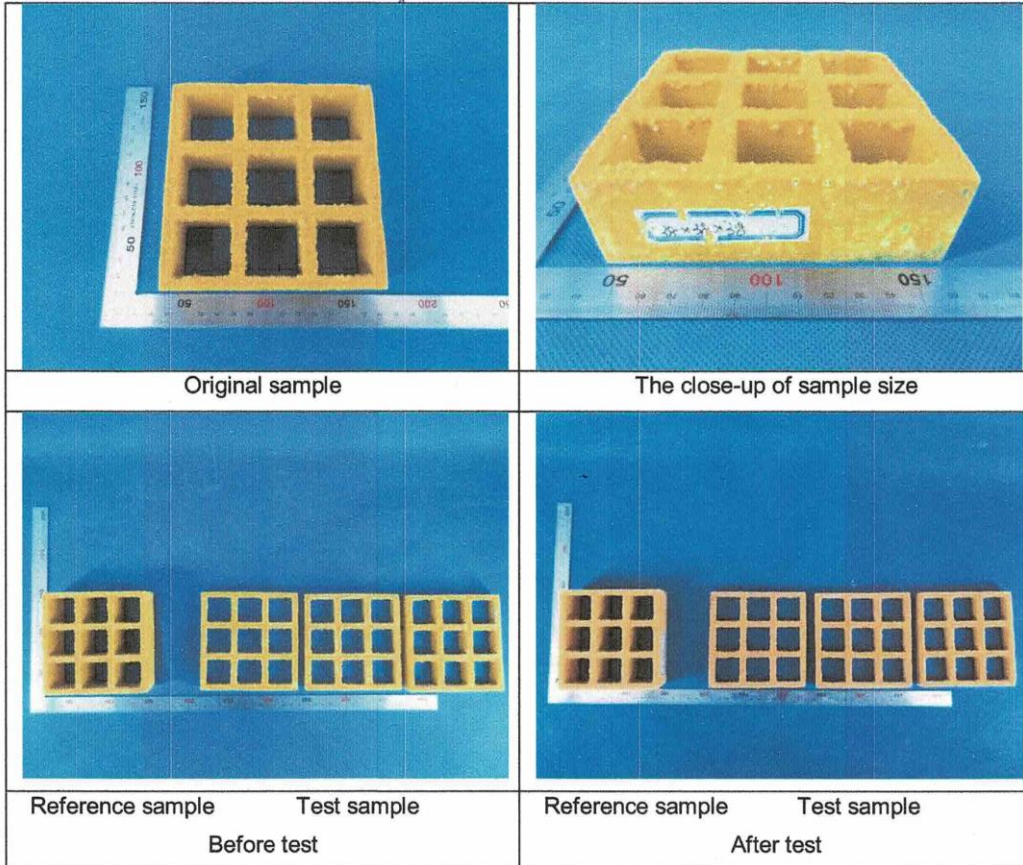
## TEST REPORT

No. : SUIN1906004266MR

Date : Jul 05, 2019

Page: 4 of 5

Test Photo:



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 85071443, or email: [china.check@sgs.com](mailto:china.check@sgs.com)  
 Building 12, New Industry Square, No.78 Xinglin Street, SIP, Suzhou, China, 215021 t (86-512) 62988200 f (86-512) 62988212 www.sgs.com.cn  
 中国·苏州·工业园区青林街78号新兴产业园12号厂房 邮编: 215021 t (86-512) 62988200 f (86-512) 62988212 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)