

**THOMAS BELL-WRIGHT  
INTERNATIONAL CONSULTANTS**

In accordance with UKAS accreditation to ISO 17065  
Certification is Hereby Granted

to

*Hyundai L&C Corp. Co., Ltd.*

*(formerly Hanwha L&C Corp. Co. Ltd.)*

*7F Center1, 26 Eulji-ro 5-gil, Jung-gu, Seoul,  
Republic of Korea*

for

**HANEX® Solid Surfaces**  
Test Method: ASTM E84-16

which, subject to limitations described on the following pages and  
continued listing on [www.tbwcert.com](http://www.tbwcert.com), complies with Product Certification  
*Scheme SD03 Exterior Wall Assemblies, Cladding, Curtain Walls, Building  
Materials, Products and Assemblies*

In witness whereof this Certificate is issued this 2<sup>nd</sup> day of June 2019



*Sandy Dweik*

Sandy Dweik  
Chief Executive Officer

*Nicholas Purcell*

Nicholas Purcell  
Director of Certification

**Certificate number: TBW0300161.1**

Initial registration: April 5, 2017

Issued: June 2, 2019

Expiration: April 4, 2020

File Name: QL105 Hyundai L&C Corp. Co., Ltd. (formerly Hanwha)

Save Date: 02/06/19 12:02 PM

This certificate and schedules are held in force by regular Factory Inspections by Thomas Bell-Wright International Consultants (TBWIC). Refer to [www.tbwcert.com](http://www.tbwcert.com) or contact TBWIC Fire Compliance Division to validate the current status of Certification. This certificate remains the property of THOMAS BELL-WRIGHT INTERNATIONAL CONSULTANTS, PO BOX 26385, DUBAI, UAE.

Tel: +971 4 821 5777, Email: [fire@bell-wright.com](mailto:fire@bell-wright.com). Web: [www.bell-wright.com](http://www.bell-wright.com) F 19 Scheme Certificate Issue 5. Dec 2016


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## HANEX® Solid Surfaces

1. Certification is given for the Hanex® Solid Surfaces Reaction to Fire Test to the test standard ASTM E84-16 for Flame Spread Index (FSI) and Smoke Developed Index (SDI), subject to the limitations below. Readers of this document should be familiar with Reaction to Fire Testing and the requirements of ISO/IEC 17065:2012. The Certification will be listed on [www.tbwcert.com](http://www.tbwcert.com), while it remains current. This Certification is not valid if it is not listed.
2. The product is approved on the basis of TBWIC Product Certification Scheme SD03 for Exterior Wall Assemblies, Cladding, Curtain Walls, Building Materials, Products and Assemblies which includes pre-test sampling, evidence of performance (under ref: TBWIC Test Report No. QL109 Rev.0), Technical Verification and Proof of Performance, compliance to Factory Production Control requirements and surveillance & Re-certification Inspection/ Audits.
3. Limitations:
  - 3.1. This Certification covers the specifications of the Hanex® Solid Surfaces which are described in more detail in Section 4.
  - 3.2. Hanex® Solid Surfaces components were tested under controlled condition in accordance with the requirements of the standard covered under this certification. The result described in each particular test report on their own does not represent the fire behavior of the product, material or system assembly under actual fire conditions and shall not be used as sole criteria for fire hazard or fire risk assessment.
  - 3.3. This certification pertains to the tested material only and does not include the system or wall structure it will be installed into.
  - 3.4. The material has been tested as flat surface boards. Adhesives or glues that will be used for further processing of the product should have a reaction to fire performance of Class A when tested to ASTM E84-16.
  - 3.5. The test (and Certification) do not address the following:
    - 3.5.1. Measurement of heat transmission
    - 3.5.2. Effect of aggravated flame spread behavior of an assembly resulting from proximity of combustible walls and ceilings.
    - 3.5.3. Classification or definition of material as noncombustible
    - 3.5.4. Any Resistance to Fire rating
    - 3.5.5. Toxicity level of smoke developed during combustion
4. Product details and test results
  - 4.1. Product Name: Hanex® Solid Surfaces
  - 4.2. Product Description: Solid surface composed mainly of Polymethylmethacrylate (PMMA), Alumina Trihydrate and Methyl Methacrylate.
  - 4.3. Minimum Density: 1,780 kg/m<sup>3</sup>
  - 4.4. Thickness: 12 to 14 mm

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\_\_\_\_\_  
Director of Certification  
Nicholas Purcell

Seal number: 100941

Issued: 02 Jun 2019  
Valid to: 04 Apr. 2020

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4.5. When tested in accordance with ASTM E84-16, Hanex® Solid Surfaces meets the criteria for a classification of **Class A**. (International Building Code 2015)  
Test Report Reference: QL109

Flame Spread Index (FSI)	20
Smoke Developed Index (SDI)	10

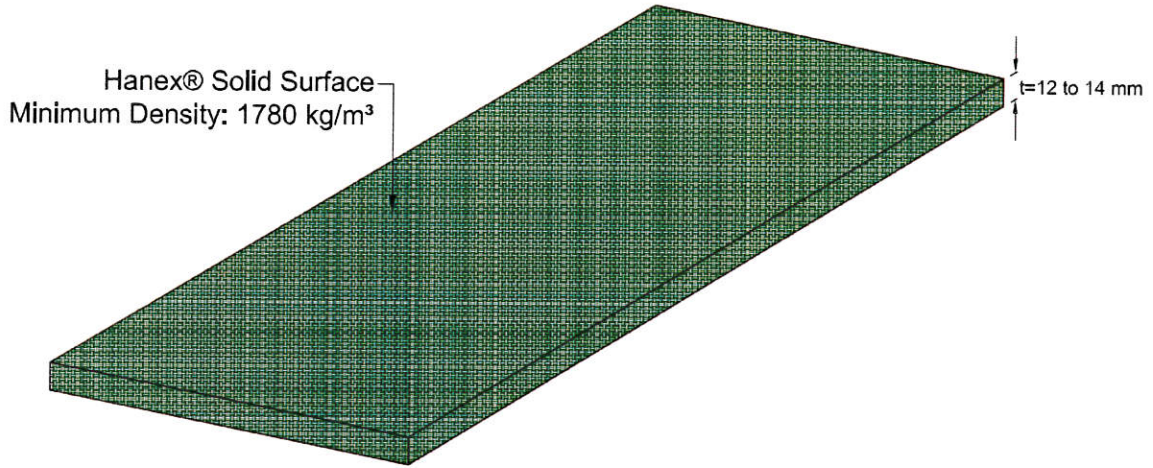


Figure 1. Hanex® Solid Surfaces

5. Approved Manufacturing Location

s  
#37 Bukangkumho-ro Bukang-myeon,  
Sejong Special Self-governing City 339-941  
Republic of Korea

Certificate number: TBW0300161.1

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