



**ТАМОЖЕННЫЙ СОЮЗ
РЕСПУБЛИКИ БЕЛАРУСЬ, РЕСПУБЛИКИ КАЗАХСТАН
И РОССИЙСКОЙ ФЕДЕРАЦИИ**

Управление Роспотребнадзора по Владимирской области
Главный государственный санитарный врач по Владимирской области
Владимирская область

(уполномоченный орган Стороны, руководитель уполномоченного органа, наименование административно-территориального образования)

**СВИДЕТЕЛЬСТВО
о государственной регистрации**

№ RU.33.ВЛ.04.008.E.000848.10.12

от 16.10.2012 г.

Продукция:

Клей двухкомпонентный разных цветов, торговой марки ХАНЕКС (HANEX). Изготовлена в соответствии с документами: Паспорт безопасности. Изготовитель (производитель): JKC Corporation, 102-ho, Seong Ji-building, 6, Dangsang- Dong2ga, Yeongdeungpo-Gu, Seoul, Korea." ("Корея)". Получатель: JKC Corporation, 102-ho, Seong Ji-building, 6, Dangsang- Dong2ga, Yeongdeungpo-Gu, Seoul, Korea." ("Корея").



(наименование продукции, нормативные и (или) технические документы, в соответствии с которыми изготовлена продукция, наименование и место нахождения изготовителя (производителя), получателя)

СООТВЕТСТВУЕТ
Единым санитарно-эпидемиологическим и гигиеническим требованиям к товарам, подлежащим санитарно-эпидемиологическому надзору (контролю) (гл.II, раздел 6)

прошла государственную регистрацию, внесена в Реестр свидетельств о государственной регистрации и разрешена для производства, реализации и использования для склеивания плит из однородных акриловых поверхностей (искусственного акрилового камня).

Настоящее свидетельство выдано на основании (перечислить рассмотренные протоколы исследований, наименование организации (испытательной лаборатории, центра), проводившей исследования, другие рассмотренные документы):

Экспертное заключение № 1122 от 08.10.2012г.ФБУЗ "Центр гигиены и эпидемиологии в Владимирской области"; (аттестат аккредитации ИЛЦ ФГУЗ " Центр гигиены и эпидемиологии в Владимирской области" № ГСЭН.RU.ЦОА.017, Государственный реестр № РОСС RU.001.510136 от 12.07.2006 г.), Протокол лабораторных исследований Испытательного Лабораторного Центра ООО "Микрон", (аттестаты аккредитации № РОСС.RU.0001.21AB72, ГСЭН, RU.ЦОА.764) № 1/09-367 от 24 сентября 2012 г.

Срок действия свидетельства о государственной регистрации продукции на весь период изготовления продукции или поставок продукции на территорию таможенного союза

Подпись, ФИО, должность уполномоченного лица, выдавшего документ, и печать органа (учреждения), выдавшего документ



Е.А.Лисицин

М. П.

№0219218

РОССИЙСКАЯ ФЕДЕРАЦИЯ
СЕРТИФИКАТ СООТВЕТСТВИЯ
(обязательная сертификация)

№ С-KR.ПБ57.В.01468
(номер сертификата соответствия)

ТР 0657748
(учетный номер бланка)

ЗАЯВИТЕЛЬ «Hanwha L&C Corporation» Seoul, Korea. Адрес: 100-797, Seoul, Korea HANWHA BLDG,14F, №1, JANGGYO-DONG, JUNG-GU, С.Р.О.ВОХ 2626, Республика Корея. Телефон + 82 2 729 1591, факс + 82 2 729 1469.
(наименование и местонахождение заявителя)

ИЗГОТОВИТЕЛЬ «Hanwha L&C Corporation» Seoul, Korea. Адрес: 100-797, Seoul, Korea HANWHA BLDG,14F, №1, JANGGYO-DONG, JUNG-GU, С.Р.О.ВОХ 2626, Республика Корея. Телефон + 82 2 729 1591, факс + 82 2 729 1469.
(наименование и местонахождение изготовителя продукции)

ОРГАН ПО СЕРТИФИКАЦИИ ОС ООО "ПожСтандарт". 121433, г. Москва, ул. Минская, 22, тел. (499)730-69-81; (495)989-12-49, факс (495)641-51-90, E-mail info@pojstandart.ru. ОГРН: 1107746088548. Аттестат рег. № ТРПБ.RU.ПБ57 выдан 23.11.2010г. Департаментом надзорной деятельности МЧС России.
(наименование и местонахождение органа по сертификации, выдавшего сертификат соответствия)

ПОДТВЕРЖДАЕТ, ЧТО ПРОДУКЦИЯ Листы из композиционного материала (однородная акриловая поверхность) торговой марки «HANEX», состоящие из связующего компонента полиметилметакрилата, неорганического наполнителя тригидроксида алюминия и добавок, размером 3680 x 760 мм, толщиной 6 и 12 мм, без отверстий, без дальнейшей обработки краев и кромок, применяемые в качестве отделочного, декоративного материала внутри помещений, выпускаемые по технической документации изготовителя. Серийный выпуск.
(информация об объекте сертификации, позволяющая идентифицировать объект)

код ОК 005 (ОКП)
22 4700

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ ТЕХНИЧЕСКОГО РЕГЛАМЕНТА (ТЕХНИЧЕСКИХ РЕГЛАМЕНТОВ) Технический регламент о требованиях пожарной безопасности (Федеральный закон от 22.07.2008 N 123-ФЗ), глава 18., статья 80., п. 1, глава 19., статья 81., п. 1., глава 30., статья 134., п. 7., глава 33., статья 149., Приложение, таблица 3,27. Класс пожарной опасности материала КМ5. Согласно приложению на 1 листе (бланк № 0322723).
(наименование технического регламента (технических регламентов), на соответствие требованиям которого (которых) проводилась сертификация)

код ЕКПС

код ТН ВЭД России
3920 51 000 0


ПРОВЕДЕННЫЕ ИССЛЕДОВАНИЯ (ИСПЫТАНИЯ) И ИЗМЕРЕНИЯ Протокол сертификационных испытаний №ПИПБ879/10 от 24.10.12 г., ИЛ ООО "ПожСтандарт", рег. № ТРПБ.RU.ИН37 от 23.11.2010, адрес: 142201, Московская область, г. Серпухов, ул. Пролетарская, 78.

ПРЕДСТАВЛЕННЫЕ ДОКУМЕНТЫ Сертификат соответствия системы менеджмента качества изготовителя требованиям ГОСТ Р ИСО 9001-2008 (ISO 9001:2008), № РОСС RU.569.СДС.12 от 06.11.2012 г. до 06.11.2015 г., выдан ОС «СДС-СЕРТ», рег. № РОСС RU.3791.04ОШ01.
(документы, представленные заявителем в орган по сертификации в качестве доказательства соответствия продукции требованиям технического регламента (технических регламентов))


СРОК ДЕЙСТВИЯ СЕРТИФИКАТА СООТВЕТСТВИЯ с 17.12.2012 по 16.12.2015



Руководитель
(заместитель руководителя)
органа по сертификации
подпись, инициалы, фамилия


Е.Э. Борисова

Эксперт (эксперты)
подпись, инициалы, фамилия


Л.В. Козийчук

РОССИЙСКАЯ ФЕДЕРАЦИЯ

ПРИЛОЖЕНИЕ

к **СЕРТИФИКАТУ СООТВЕТСТВИЯ №** C-KR.ПБ57.В.01468

(обязательная сертификация)

ТР 0322723

(учетный номер бланка)

Сведения о национальных стандартах (сводах правил), применяемых на добровольной основе для соблюдения требований технического регламента

Обозначение национального стандарта или свода правил	Наименование национального стандарта или свода правил	Подтверждаемые требования национального стандарта или свода правил
ГОСТ 30244-94	Материалы строительные. Методы испытаний на горючесть.	Группа горючести – Г4 сильногорючие по Ф3 123 ст.13.
ГОСТ 30402-96	Материалы строительные. Метод испытания на воспламеняемость.	Группа воспламеняемости – В3 легковоспламеняемые по Ф3 123 ст. 13.
ГОСТ 12.1.044-89	Система стандартов безопасности труда. Пожаровзрывоопасность веществ и материалов. Номенклатура показателей и методы их определения.	Группа дымообразующей способности – Д3 с высокой дымообразующей способностью по Ф3 123 ст. 13.
ГОСТ 12.1.044-89	Система стандартов безопасности труда. Пожаровзрывоопасность веществ и материалов. Номенклатура показателей и методы их определения.	Группа токсичности продуктов горения – Т4 чрезвычайно опасные по Ф3 123 ст. 13.




Руководитель
(заместитель руководителя)
органа по сертификации

подпись, инициалы, фамилия

Эксперт (эксперты)

подпись, инициалы, фамилия


Е.Э. Борисова


Л.В. Козийчук



ФЕДЕРАЛЬНАЯ СЛУЖБА ПО НАДЗОРУ
В СФЕРЕ ЗАЩИТЫ ПРАВ ПОТРЕБИТЕЛЕЙ И БЛАГОПОЛУЧИЯ ЧЕЛОВЕКА
**ФЕДЕРАЛЬНОЕ БЮДЖЕТНОЕ УЧРЕЖДЕНИЕ ЗДРАВООХРАНЕНИЯ
«ЦЕНТР ГИГИЕНЫ И ЭПИДЕМИОЛОГИИ В ГОРОДЕ МОСКВЕ»**

129626, Москва, Графский пер. д. 4/9 тел. (495) 687 4035, факс (495) 687 4067
Свидетельство об аккредитации № 31-АК от 26.02.2010
Испытательный лабораторный центр: ГСЭН.RU.ЦОА.021, РОСС RU.0001.510895, DAkkS D-PL-14246-01-00

ЭКСПЕРТНОЕ ЗАКЛЮЧЕНИЕ

о соответствии продукции

Единым санитарно-эпидемиологическим и гигиеническим требованиям к товарам,
подлежащим санитарно-эпидемиологическому надзору (контролю)

№ 77.01.16.П.005502.05.13 Дата 29.05.2013 г.
На основании заявления № 03815 от 21.05.2013

Организация-изготовитель: "Hanwha L&C Corporation"
Адрес: HANWHA BLDG,14F, №1, JANGGYO-DONG, JUNG-GU, 100-797, Seoul, Korea (Корея)

Импортер (поставщик), получатель: "Hanwha L&C Corporation"
Адрес: HANWHA BLDG,14F, №1, JANGGYO-DONG, JUNG-GU, 100-797, Seoul, Korea (Корея)

Наименование продукции: Однородная акриловая поверхность (искусственный камень) торговой марки "Ханекс"

Продукция изготовлена в соответствии: с декларацией о соответствии качеству, сертификатом качества

Перечень документов, представленных на экспертизу: Декларация о соответствии изготовителя. Сертификат качества. Протокол испытаний. Свидетельство о регистрации. Свидетельство о постановке в ИФНС.

Характеристика, ингредиентный состав продукции: тригидрооксид алюминия, акриловая смола, добавки

Рассмотрены протоколы (№, дата протокола, наименование организации (испытательной лаборатории, центра), проводящей испытания, аттестат аккредитации): протокол ИЦ Орехово-Зуевского филиала ФБУ "ЦСМ Московской области" (Аттестат аккредитации № ГСЭН.RU.ЦОА.023.554) №5453/5453-АС-05 от 21.05.2013 г.

№ 045145

Гигиеническая характеристика продукции:

Вещества, показатели (факторы)	Фактическое значение	Гигиенический норматив
Интенсивность запаха образца в естественных условиях, в баллах	1	не более 2
Напряженность электростатического поля, кВ/м, не более	2,0	15,0
Индекс токсичности, %	8,8	<20
Дибутилфталат, мг/м ³	0,006	0,1
Диоктилфталат, мг/м ³	0,005	0,02
Акрилонитрил, мг/м ³	н/о	0,03
Метилметакрилат, мг/м ³	0,001	0,01
Формальдегид, мг/м ³	н/о	0,01
Спирт метиловый, мг/м ³	0,08	0,5

Область применения: В качестве отделочного декоративного материала, внутренняя и внешняя отделка помещений

Условия использования, хранения, транспортировки и меры безопасности: В соответствии с рекомендациями фирмы-изготовителя на русском языке.

Информация, наносимая на этикетку: в соответствии с Едиными санитарно-эпидемиологическими и гигиеническими требованиями к товарам, подлежащим санитарно-эпидемиологическому надзору (контролю)

ЗАКЛЮЧЕНИЕ

Санитарно-эпидемиологическая экспертиза проведена в соответствии с действующими Едиными санитарно-эпидемиологическими и гигиеническими требованиями к товарам, подлежащим санитарно-эпидемиологическому надзору (контролю) с использованием методов и методик, утвержденных в установленном порядке.

Продукция: Однородная акриловая поверхность (искусственный камень) торговой марки "Ханекс" соответствует Единым санитарно-эпидемиологическим и гигиеническим требованиям к товарам, подлежащим санитарно-эпидемиологическому надзору (контролю).

Главный врач

(заместитель главного врача)
Заведующий отделом
организации оказания санитарно-
эпидемиологических услуг

Эксперт (эксперты)



Иваненко А.В.

Сафонкина С.Г.
Ф. И. О.

Гордеева Т.И.

Дуванова О. П.



В.А.
подпись

В.И.

С.Г.

BUREAU VERITAS
Certification



Certification

Awarded to

Hanwha L&C Bukang Plant

. Plant#1: #801 Bukang-ri, Buyoung-myun, Cheongwon-gun, Chungcheongbuk-do, Korea
Plant#2: #229 Geumho-ri, Buyoung-myun, Cheongwon-gun, Chungcheongbuk-do, Korea

Bureau Veritas Certification certify that the Management System of the above organization has been audited and found to be in accordance with the requirements of the management system standards detailed below

Standards

ISO 14001:2004 / KS I ISO 14001:2009

Scope of supply

Scope1 (First plant): PRODUCTION OF FLOORING, WINDOW-PROFILE, SMC(SHEET MOLDING COMPOUND), PVC-RIGID FILM, PVC TILE AND CARPET TILE, DECORATION SHEET, EVA SHEET

Scope2 (Second plant): PRODUCTION OF GMT(GLASS FIBER MAT REINFORCED THERMOPLASTICS), GMT MOLDING PRODUCTION, EPP(EXPANDED POLYPROPYLENE), ARTIFICIAL ACRYLIC MARBLE, FCCL(FLEXIBLE COPPER CLAD LAMINATE).CL(COVERLAY) AND KHANSTONE(ENGINEERED STONE)

Original Approval Date: **20 December 2010**

Subject to the continued satisfactory operation of the organization's Management System, this certificate is valid until: **19 December 2013**

To check this certificate validity please call **(+82-2-567-9001)**

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organization

Date: **20 December 2010**

Certificate Number: **274941**



Bureau Veritas Certification
Using the accreditation
certificate number 008

008

ISSUING OFFICE: Bureau Veritas Certification Hong Kong Ltd.
Rm. 25-26, 30/F, Pacific Trade Centre, 2 Kai Hing Road, Kowloon
Tse Tung Hong Kong
MANAGING OFFICE: Bureau Veritas Certification Korea Ltd.
Rm. 1302, Samsung Towers, 677-25, Yongsam Dong, Gangnam Gu,
Seoul, Korea





Certificate of Compliance

Certification Details:

Certificate No: S10Sm9004811-1

Status: Certified

Period: 10/2007 - 10/2012

Restrictions: NONE

Hanex Hanwha Surfaces | Brionne

Hanwha L&C USA LLC

This product has been certified according to the GREENGUARD Children & Schools Certification Program for Low Emitting Products

Reference Standard: GGPS.002 GREENGUARD Children & Schools™ Standard

Product Type: All Products

Criteria	Allowable Limits
Individual VOCs ^{1,2}	≤ 1/100 TLV and ≤ ½ CA chronic REL (Office Seating ≤ 1/100 TLV and ≤ ¼ CA REL)
Formaldehyde	≤ 0.0135 ppm / 13.5 ppb (Office Seating ≤ 0.00675 ppm / 6.75 ppb)
TVOC ³	≤ 0.22 µg/m ³
Total Aldehydes ⁴	≤ 0.043 ppm / 43 ppb
Total Phthalates ⁵	≤ 0.01 µg/m ³
Total Particles ⁶	≤ 0.02 µg/m ³

See referenced standard for a complete technical explanation.

¹Any VOC not listed must produce an air concentration level no greater than 1/100 the Threshold Limit Value (TLV) industrial work place criterion (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, Cincinnati, Ohio 45211-4438) and no greater than 1/2 the CA Chronic Reference Exposure Level (CREL) http://www.oehha.ca.gov/air/chronic_rels/AllChrels.html - (CRELs) Adopted by the State of California Office of Environmental Health Hazard Assessment (OEHA), December 2008).

²1-Methyl-2-Pyrrolidinone must be ≤ 0.16 µg/m³ for Office Furniture or ≤ 0.080 µg/m³ for Office Seating.

³Defined to be the total response of measured VOCs falling within the C₆-C₁₆ range, with responses calibrated to a toluene surrogate.

⁴Defined to be the total response of a target list of aldehydes (2-butenal; acetaldehyde; benzaldehyde; 2, 5-dimethylbenzaldehyde, 2-methylbenzaldehyde; 3-and/or 4-methylbenzaldehyde; butanal; 3-methylbutanal; formaldehyde; hexanal; pentanal; propanal), with each individually calibrated to a compound specific standard.

⁵Total phthalates include dibutyl (DBP), diethylhexyl (DEHP), diethyl (DEP), butylbenzyl (BBP), di-octyl (DOP), and dimethyl (DMP) phthalates.

⁶Particles are only applicable to fibrous, particle-releasing products with exposed surface area in air streams.

Seating, Workstations and Casework Systems complies with ANSI/BIFMA e3-2010 Credit 7.6.2.

Complies with California Department of Health Services' "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers" Version 1.1 (CA section 01350)

GREENGUARD Certification affirms that products meet the criteria of the referenced standard and the requirements of the specific certification program. Certification testing is conducted according to a consistent, defined protocol. The testing does not evaluate emissions under usage conditions other than those defined in the protocol and does not address potential environmental impact other than chemical and particle emissions.

The GREENGUARD Environmental Institute (GEI) is an industry independent, third-party certification organization that qualifies products for low chemical emissions. GREENGUARD Certification programs use defined product standards, test methodologies, product sample collection and handling procedures, program application processes and on-going verification procedures. GREENGUARD standards, methods, and procedures are available at www.GREENGUARD.org.



Certificate of Compliance

Hanex Hanwha Surfaces | Brionne Hanwha L&C USA LLC

This product has been certified according to the GREENGUARD Indoor Air Quality (IAQ) Certification Program for Low Emitting Products

Certification Details:

Certificate No: S10Sm9004811-1

Status: Certified

Period: 10/2007 - 10/2012

Restrictions: NONE

Reference Standard: GGPS.001 GREENGUARD IAQ Standard for Building Materials, Finishes, and Furnishings Furnishings

Product Type: Furniture Components/Materials, Seating, and Free Standing Furniture and Furnishing Units

Criteria	Allowable Limits
TVOC ¹	≤ 0.25 µg/m ³
Formaldehyde	≤ 0.025 ppm
Total Aldehydes ²	≤ 0.05 ppm
Individual VOCs ³	≤ 0.1 TLV
4-phenylcyclohexene	≤ 0.0033 µg/m ³

Listing of measured carcinogens and reproductive toxins as identified by California Proposition 65, the U.S. National Toxicology Program (NTP), and the International Agency on Research on Cancer (IARC) must be provided.

Any pollutant regulated as a primary or secondary outdoor air pollutant must meet a concentration that will not generate an air concentration greater than that promulgated by the National Ambient Air Quality Standard (U.S. EPA, code of Federal Regulations, Title 40, Part 50).

See referenced standard for a complete technical explanation.

¹ Defined to be the total response of measured VOCs falling within the C₆-C₁₆ range, with responses calibrated to a toluene surrogate.

² Defined to be the total response of a target list of aldehydes (2-butenal; acetaldehyde; benzaldehyde; 2, 5-dimethylbenzaldehyde, 2-methylbenzaldehyde; 3-and/or 4-methylbenzaldehyde; butanal; 3-methylbutanal; formaldehyde; hexanal; pentanal; propanal), with each individually calibrated to a compound specific standard.

³ Any pollutant not listed must produce an air concentration level no greater than 1/10 the Threshold Limit Value (TLV) industrial work place standard (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, Cincinnati, Ohio 45211-4438). Seating complies with ANSI/BIFMA X7.1-2011, ANSI/BIFMA M7.1-2011, and ANSI/BIFMA e3-2010 Credit 7.6.1

GREENGUARD Certification affirms that products meet the criteria of the referenced standard and the requirements of the specific certification program. Certification testing is conducted according to a consistent, defined protocol. The testing does not evaluate emissions under usage conditions other than those defined in the protocol and does not address potential environmental impact other than chemical and particle emissions.

The GREENGUARD Environmental Institute (GEI) is an industry independent, third-party certification organization that qualifies products for low chemical emissions. GREENGUARD Certification programs use defined product standards, test methodologies, product sample collection and handling procedures, program application processes and on-going verification procedures. GREENGUARD standards, methods, and procedures are available at www.GREENGUARD.org.



Certificate of Compliance

Certification Details:

Certificate No: S10Sm9004811-2

Status: Certified

Period: 10/2007 - 10/2012

Restrictions: NONE

Hanex Solid Surfaces

Hanwha L&C USA LLC

This product has been certified according to the GREENGUARD Children & Schools Certification Program for Low Emitting Products

Reference Standard: GGPS.002 GREENGUARD Children & Schools™ Standard

Product Type: All Products

Criteria	Allowable Limits
Individual VOCs ^{1,2}	≤ 1/100 TLV and ≤ ½ CA chronic REL (Office Seating ≤ 1/100 TLV and ≤ ¼ CA REL)
Formaldehyde	≤ 0.0135 ppm / 13.5 ppb (Office Seating ≤ 0.00675 ppm / 6.75 ppb)
TVOC ³	≤ 0.22 µg/m ³
Total Aldehydes ⁴	≤ 0.043 ppm / 43 ppb
Total Phthalates ⁵	≤ 0.01 µg/m ³
Total Particles ⁶	≤ 0.02 µg/m ³

See referenced standard for a complete technical explanation.

¹Any VOC not listed must produce an air concentration level no greater than 1/100 the Threshold Limit Value (TLV) industrial work place criterion (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, Cincinnati, Ohio 45211-4438) and no greater than 1/2 the CA Chronic Reference Exposure Level (CREL) http://www.oehha.ca.gov/air/chronic_rels/AllChrels.html - (CRELs) Adopted by the State of California Office of Environmental Health Hazard Assessment (OEHHHA), December 2008).

²1-Methyl-2-Pyrrolidinone must be ≤ 0.16 µg/m³ for Office Furniture or ≤ 0.080 µg/m³ for Office Seating.

³Defined to be the total response of measured VOCs falling within the C₆-C₁₆ range, with responses calibrated to a toluene surrogate.

⁴Defined to be the total response of a target list of aldehydes (2-butenal; acetaldehyde; benzaldehyde; 2, 5-dimethylbenzaldehyde, 2-methylbenzaldehyde; 3-and/or 4-methylbenzaldehyde; butanal; 3-methylbutanal; formaldehyde; hexanal; pentanal; propanal), with each individually calibrated to a compound specific standard.

⁵Total phthalates include dibutyl (DBP), diethylhexyl (DEHP), diethyl (DEP), butylbenzyl (BBP), di-octyl (DOP), and dimethyl (DMP) phthalates.

⁶Particles are only applicable to fibrous, particle-releasing products with exposed surface area in air streams.

Seating, Workstations and Casework Systems complies with ANSI/BIFMA e3-2010 Credit 7.6.2.

Complies with California Department of Health Services' "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers" Version 1.1 (CA section 01350)

GREENGUARD Certification affirms that products meet the criteria of the referenced standard and the requirements of the specific certification program. Certification testing is conducted according to a consistent, defined protocol. The testing does not evaluate emissions under usage conditions other than those defined in the protocol and does not address potential environmental impact other than chemical and particle emissions.

The GREENGUARD Environmental Institute (GEI) is an industry independent, third-party certification organization that qualifies products for low chemical emissions. GREENGUARD Certification programs use defined product standards, test methodologies, product sample collection and handling procedures, program application processes and on-going verification procedures. GREENGUARD standards, methods, and procedures are available at www.GREENGUARD.org.



Certificate of Compliance

Hanex Solid Surfaces Hanwha L&C USA LLC

This product has been certified according to the GREENGUARD Indoor Air Quality (IAQ) Certification Program for Low Emitting Products

Certification Details:

Certificate No: S10Sm9004811-2

Status: Certified

Period: 10/2007 - 10/2012

Restrictions: NONE

Reference Standard: GGPS.001 GREENGUARD IAQ Standard for Building Materials, Finishes, and Furnishings

Product Type: Furniture Components/Materials, Seating, and Free Standing Furniture and Furnishing Units

Criteria	Allowable Limits
TVOC ¹	≤ 0.25 µg/m ³
Formaldehyde	≤ 0.025 ppm
Total Aldehydes ²	≤ 0.05 ppm
Individual VOCs ³	≤ 0.1 TLV
4-phenylcyclohexene	≤ 0.0033 µg/m ³

Listing of measured carcinogens and reproductive toxins as identified by California Proposition 65, the U.S. National Toxicology Program (NTP), and the International Agency on Research on Cancer (IARC) must be provided.

Any pollutant regulated as a primary or secondary outdoor air pollutant must meet a concentration that will not generate an air concentration greater than that promulgated by the National Ambient Air Quality Standard (U.S. EPA, code of Federal Regulations, Title 40, Part 50).

See referenced standard for a complete technical explanation.

¹ Defined to be the total response of measured VOCs falling within the C₆-C₁₆ range, with responses calibrated to a toluene surrogate.

² Defined to be the total response of a target list of aldehydes (2-butenal; acetaldehyde; benzaldehyde; 2, 5-dimethylbenzaldehyde, 2-methylbenzaldehyde; 3-and/or 4-methylbenzaldehyde; butanal; 3-methylbutanal; formaldehyde; hexanal; pentanal; propanal), with each individually calibrated to a compound specific standard.

³ Any pollutant not listed must produce an air concentration level no greater than 1/10 the Threshold Limit Value (TLV) industrial work place standard (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, Cincinnati, Ohio 45211-4438). Seating complies with ANSI/BIFMA X7.1-2011, ANSI/BIFMA M7.1-2011, and ANSI/BIFMA e3-2010 Credit 7.6.1

GREENGUARD Certification affirms that products meet the criteria of the referenced standard and the requirements of the specific certification program. Certification testing is conducted according to a consistent, defined protocol. The testing does not evaluate emissions under usage conditions other than those defined in the protocol and does not address potential environmental impact other than chemical and particle emissions.

The GREENGUARD Environmental Institute (GEI) is an industry independent, third-party certification organization that qualifies products for low chemical emissions. GREENGUARD Certification programs use defined product standards, test methodologies, product sample collection and handling procedures, program application processes and on-going verification procedures. GREENGUARD standards, methods, and procedures are available at www.GREENGUARD.org.



Certificate of Compliance

Certification Details:

Certificate No: S10Sm9004811-3

Status: Certified

Period: 10/2007 - 10/2012

Restrictions: NONE

HanStone

Hanwha L&C USA LLC

This product has been certified according to the GREENGUARD Children & Schools Certification Program for Low Emitting Products

Reference Standard: GGPS.002 GREENGUARD Children & Schools™ Standard

Product Type: All Products

Criteria	Allowable Limits
Individual VOCs ^{1,2}	≤ 1/100 TLV and ≤ ½ CA chronic REL (Office Seating ≤ 1/100 TLV and ≤ ¼ CA REL)
Formaldehyde	≤ 0.0135 ppm / 13.5 ppb (Office Seating ≤ 0.00675 ppm / 6.75 ppb)
TVOC ³	≤ 0.22 µg/m ³
Total Aldehydes ⁴	≤ 0.043 ppm / 43 ppb
Total Phthalates ⁵	≤ 0.01 µg/m ³
Total Particles ⁶	≤ 0.02 µg/m ³

See referenced standard for a complete technical explanation.

¹Any VOC not listed must produce an air concentration level no greater than 1/100 the Threshold Limit Value (TLV) industrial work place criterion (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, Cincinnati, Ohio 45211-4438) and no greater than 1/2 the CA Chronic Reference Exposure Level (CREL) http://www.oehha.ca.gov/air/chronic_rels/AllChrels.html - (CRELs) Adopted by the State of California Office of Environmental Health Hazard Assessment (OEHHHA), December 2008).

²1-Methyl-2-Pyrrolidinone must be ≤ 0.16 µg/m³ for Office Furniture or ≤ 0.080 µg/m³ for Office Seating.

³Defined to be the total response of measured VOCs falling within the C₆-C₁₆ range, with responses calibrated to a toluene surrogate.

⁴Defined to be the total response of a target list of aldehydes (2-butenal; acetaldehyde; benzaldehyde; 2, 5-dimethylbenzaldehyde, 2-methylbenzaldehyde; 3-and/or 4-methylbenzaldehyde; butanal; 3-methylbutanal; formaldehyde; hexanal; pentanal; propanal), with each individually calibrated to a compound specific standard.

⁵Total phthalates include dibutyl (DBP), diethylhexyl (DEHP), diethyl (DEP), butylbenzyl (BBP), di-octyl (DOP), and dimethyl (DMP) phthalates.

⁶Particles are only applicable to fibrous, particle-releasing products with exposed surface area in air streams.

Seating, Workstations and Casework Systems complies with ANSI/BIFMA e3-2010 Credit 7.6.2.

Complies with California Department of Health Services' "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers" Version 1.1 (CA section 01350)

GREENGUARD Certification affirms that products meet the criteria of the referenced standard and the requirements of the specific certification program. Certification testing is conducted according to a consistent, defined protocol. The testing does not evaluate emissions under usage conditions other than those defined in the protocol and does not address potential environmental impact other than chemical and particle emissions.

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Certificate of Compliance

HanStone

Hanwha L&C USA LLC

This product has been certified according to the GREENGUARD Indoor Air Quality (IAQ) Certification Program for Low Emitting Products

Certification Details:

Certificate No: S10Sm9004811-3

Status: Certified

Period: 10/2007 - 10/2012

Restrictions: NONE

Reference Standard: GGPS.001 GREENGUARD IAQ Standard for Building Materials, Finishes, and Furnishings

Product Type: Furniture Components/Materials, Seating, and Free Standing Furniture and Furnishing Units

Criteria	Allowable Limits
TVOC ¹	≤ 0.25 µg/m ³
Formaldehyde	≤ 0.025 ppm
Total Aldehydes ²	≤ 0.05 ppm
Individual VOCs ³	≤ 0.1 TLV
4-phenylcyclohexene	≤ 0.0033 µg/m ³

Listing of measured carcinogens and reproductive toxins as identified by California Proposition 65, the U.S. National Toxicology Program (NTP), and the International Agency on Research on Cancer (IARC) must be provided.

Any pollutant regulated as a primary or secondary outdoor air pollutant must meet a concentration that will not generate an air concentration greater than that promulgated by the National Ambient Air Quality Standard (U.S. EPA, code of Federal Regulations, Title 40, Part 50).

See referenced standard for a complete technical explanation.

¹ Defined to be the total response of measured VOCs falling within the C₆-C₁₆ range, with responses calibrated to a toluene surrogate.

² Defined to be the total response of a target list of aldehydes (2-butenal; acetaldehyde; benzaldehyde; 2, 5-dimethylbenzaldehyde, 2-methylbenzaldehyde; 3-and/or 4-methylbenzaldehyde; butanal; 3-methylbutanal; formaldehyde; hexanal; pentanal; propanal), with each individually calibrated to a compound specific standard.

³ Any pollutant not listed must produce an air concentration level no greater than 1/10 the Threshold Limit Value (TLV) industrial work place standard (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, Cincinnati, Ohio 45211-4438). Seating complies with ANSI/BIFMA X7.1-2011, ANSI/BIFMA M7.1-2011, and ANSI/BIFMA e3-2010 Credit 7.6.1

GREENGUARD Certification affirms that products meet the criteria of the referenced standard and the requirements of the specific certification program. Certification testing is conducted according to a consistent, defined protocol. The testing does not evaluate emissions under usage conditions other than those defined in the protocol and does not address potential environmental impact other than chemical and particle emissions.

The GREENGUARD Environmental Institute (GEI) is an industry independent, third-party certification organization that qualifies products for low chemical emissions. GREENGUARD Certification programs use defined product standards, test methodologies, product sample collection and handling procedures, program application processes and on-going verification procedures. GREENGUARD standards, methods, and procedures are available at www.GREENGUARD.org.

SCS does hereby certify that an independent assessment has been conducted on behalf of:

Hanwha L&C

Bukang Plant #2, #229 Kumho-Ri Buyoung-Myun Cheong-Kun, Chungbuk, Korea
Cheongwon-Kun, Chungbuk, Korea

For the following product(s):
Hanex® Terra Sienna

This product meets all of the necessary qualifications to be certified for the following claim:
Minimum of 10% Pre-consumer Recycled Chip Content
(dry weight basis)
Conforms to the SCS Recycled Content Standard V4-1

Registration # SCS-MC-01974
Valid from: August 1, 2011 to July 31, 2012



Pre-consumer
SCIENTIFIC CERTIFICATION SYSTEMS
SCS-MC-01974



SCIENTIFIC CERTIFICATION SYSTEMS
Setting the standard for sustainability™



A handwritten signature in black ink that reads "Robert J. Hrubes".

Robert J. Hrubes, PhD, Senior Vice President
Scientific Certification Systems
2000 Powell Street, Suite 600, Emeryville, CA 94608 USA

SCS does hereby certify that an independent assessment has been conducted on behalf of:

Hanwha L&C

Bukang Plant #2, #229 Kumho-Ri Buyoung-Myun Cheong-Kun, Chungbuk, Korea
Cheongwon-Kun, Chungbuk, Korea

For the following product(s):

Hanex[®] Sandflower, Havana Sand, and Desert Castle

This product meets all of the necessary qualifications to be certified for the following claim:

**Minimum of 8% Pre-consumer Recycled Chip Content
(dry weight basis)**

Conforms to the SCS Recycled Content Standard V4-1

Registration # SCS-MC-01975

Valid from: August 1, 2011 to July 31, 2012



Pre-consumer
SCIENTIFIC CERTIFICATION SYSTEMS
SCS-MC-01975



Robert J. Hrubes, PhD, Senior Vice President
Scientific Certification Systems
2000 Powell Street, Suite 600, Emeryville, CA 94608 USA

SCS does hereby certify that an independent assessment has been conducted on behalf of:

Hanwha L&C

Bukang Plant #2, #229 Kumho-Ri Buyoung-Myun Cheong-Kun, Chungbuk, Korea
Cheongwon-Kun, Chungbuk, Korea

For the following product(s):

Hanex[®] Honey Wheat, Mystery, Vienna, Stone Hedge, Mist, H-Blanche,
and N-Arctic, Pure-Arctic, Ice Queen, H-Ivory, H-Grey, and Cubic
Nebulous

This product meets all of the necessary qualifications to be certified for the following claim:

Minimum of 2% Pre-consumer recycled chip content
(dry weight basis)

Conforms to the SCS Recycled Content Standard V4-1

Registration # SCS-MC-01976

Valid from: August 1, 2011 to July 31, 2012



Pre-consumer
SCIENTIFIC CERTIFICATION SYSTEMS
SCS-MC-01976

A handwritten signature in black ink that reads "Robert J. Hrubes".

Robert J. Hrubes, PhD, Senior Vice President
Scientific Certification Systems
2000 Powell Street, Suite 600, Emeryville, CA 94608 USA



SCIENTIFIC CERTIFICATION SYSTEMS
Setting the standard for sustainability™



SPECIAL CERTIFICATION

Environmentally Friendly Company

Company Name : Hanwha L&C Corporation Bugang 1,2Plant

1 Plant : 801, Bugang-ri, Buyong-myeon, Cheongwon-gun,
Chungcheongbuk-do, Korea

2 Plant : 229, Geumho-ri, Buyong-myeon, Cheongwon-gun,
Chungcheongbuk-do, Korea

Certificate Issue : 12 Jan. 2007

Certificate Expiry : 11 Jan. 2012

We designate this company as Environmentally Friendly. Realizing the importance of the environment, this company and its staff have demonstrated their commitment to ecological integrity by being environmentally conscious in their production and management activities.

We applaud this company's continuous efforts for protecting the environment.

2007. 1. 12.



*The Minister of Environment
of the Republic of Korea*





THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

IQNet and
KfQ

hereby certify that the organization

HANWHA L&C CO., LTD HEAD OFFICE AND BUKANG PLANT

- HEAD OFFICE : 1, Janggyo-dong, Jung-gu, Seoul, 100-220, Korea
- FIRST PLANT : 801, Bugang-ri, Buyong-myeon, Cheongwon-gun, Chungcheongbuk-do, 363-941, Korea
- SECOND PLANT : 229, Geumho-ri, Buyong-myeon, Cheongwon-gun, Chungcheongbuk-do, 363-942, Korea

for the following field of activities

- FIRST PLANT : DESIGN, DEVELOPMENT, PRODUCTION AND SALES OF FLOORING, WINDOW-PROFILE, WINDOW SETS, DOOR SETS, SMC(SHEET MOLDING COMPOUND), PVC-RIGID FILM, PVC TILE, CARPET TILE, EVA SHEET AND DECORATION SHEETS
- SECOND PLANT : DESIGN, DEVELOPMENT, PRODUCTION AND SALES OF GMT(GLASS FIBER MAT REINFORCED THERMOPLASTIC), GMT MOLDING PRODUCTION, EPP(EXPANDED POLYPROPYLENE), BUMPER CORE, ARTIFICIAL ACRYLIC MARBLE, FCCL(FLEXIBLE COPPER CLAD LAMINATE), CL(COVERLAY) AND KHANSTONE(ENGINEERED STONE)

has implemented and maintain a

Quality Management System

which fulfills the requirements of the following standard

ISO 9001:2008

Issued on : 2010. 07. 29.
Validity date : 2013. 07. 28.

Registration Number : KR - 00100



René Wasmer
President of IQNet

Jae Ryong Kim
President & CEO of KfQ



IQNet Partners*:

AENOR Spain AFAQ AFNOR France AIB-Vincotte International Belgium ANCE Mexico APCER Portugal CISQ Italy CQC China
CQM China CQS Czech Republic Cro Cert Croatia DQS Germany DS Denmark ELOT Greece FCAV Brazil
FONDONORMA Venezuela HKQAA Hong Kong China ICONTEC Colombia IMNC Mexico Inspecta Certification Finland
IRAM Argentina JQA Japan KfQ Korea MSZT Hungary Nemko AS Norway NSAI Ireland PCBC Poland QMI Canada
Quality Austria Austria RR Russia SAI Global Australia SII Israel SIQ Slovenia SIRIM QAS International Malaysia
SQS Switzerland SRAC Romania TEST St Petersburg Russia YUQS Serbia

IQNet is represented in the USA by: AFAQ AFNOR, AIB-Vincotte International, CISQ, DQS, NSAI Inc., QMI and SAI Global

* IQNet is a network of IQNet partners in order to extend the scope of this certificate. Detailed information is available under www.iqnet-certification.com

CERTIFICATE

QUALITY MANAGEMENT SYSTEM



HANWHA L&C CO., LTD HEAD OFFICE AND BUKANG PLANT

Valid Date 2010. 07. 29 ~ 2013. 07. 28
Issue Date 2010. 07. 26.
Initial Registration Date 1995. 07. 30.
Certificate Number AC-00100

- HEAD OFFICE :
1, Janggyo-dong, Jung-gu, Seoul, 100-220, Korea
- FIRST PLANT : 801, Bugang-ri, Buyong-myeon,
Cheongwon-gun, Chungcheongbuk-do, 363-941, Korea
- SECOND PLANT : 229, Geumho-ri, Buyong-myeon,
Cheongwon-gun, Chungcheongbuk-do, 363-942, Korea

*Korean Foundation for Quality certifies that
The Quality Management System of the above
organization has been audited and has complied
with the requirements of the following standard*

Standard

KS Q ISO 9001:2009 / ISO 9001:2008

Scope of certification

- FIRST PLANT : DESIGN, DEVELOPMENT, PRODUCTION AND SALES OF FLOORING, WINDOW-PROFILE, WINDOW SETS, DOOR SETS, SMC(SHEET MOLDING COMPOUND), PVC-RIGID FILM, PVC TILE, CARPET TILE, EVA SHEET AND DECORATION SHEETS
- SECOND PLANT : DESIGN, DEVELOPMENT, PRODUCTION AND SALES OF GMT(GLASS FIBER MAT REINFORCED THERMOPLASTIC), GMT MOLDING PRODUCTION, EPP(EXPANDED POLYPROPYLENE), BUMPER CORE, ARTIFICIAL ACRYLIC MARBLE, FCCL(FLEXIBLE COPPER CLAD LAMINATE), CL(COVERLAY) AND KHANSTONE(ENGINEERED STONE)



Jae Ryong Kim
President & CEO, KfQ

NSF International

RECOGNIZES

HANWHA L&C CORP.
KOREA

AS COMPLYING WITH NSF/ANSI 51.
PRODUCTS APPEARING IN THE NSF OFFICIAL LISTING ARE
AUTHORIZED TO BEAR THE NSF MARK.



This certificate is the property of NSF International and must be returned upon request. For the most current and complete information, please access NSF's website (www.nsf.org).

A handwritten signature in black ink, appearing to read "Joseph L. Phillips".

Joseph L. Phillips, General Manager
Food Equipment

June 1, 2005
Certificate# 1R590 - 01