Automotive Living Air Rail Sea

Contract

# White Paper







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This White Paper illustrates our products designed for yachts and cruise ships as well as the flame-retardant standards this leather meets upon customers' request.

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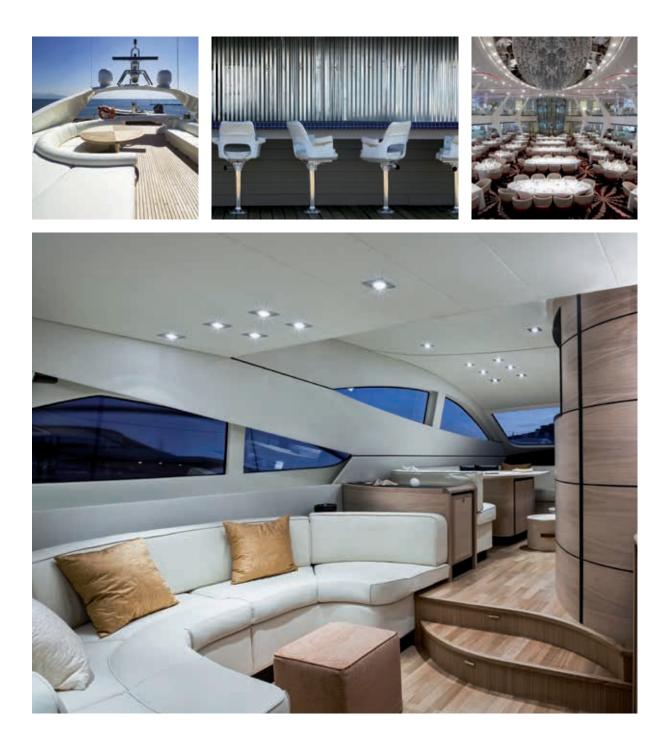
**BOX**MARK

# I BOXMARK - BEST IN LEATHER FOR SEA

Ocean voyages and cruises have nothing to do with stress, exhaustion and a lack of comfort.

Nowadays every cruise passenger can enjoy the luxurious touch of leather. BOXMARK gives the superior classes of luxurious liners the ambience and comfort of a noble club.

We offer a wide range of interior and exterior leather products. Our most natural wax leathers series are Count and Imperial for individual high comfort use, the especially hard-wearing Royal, Mondial as well as King, our tailor-made leather, and finally XTREME for countless applications.



# 2 MARITIME LEATHERS

# 2.I XTREME

Atreme

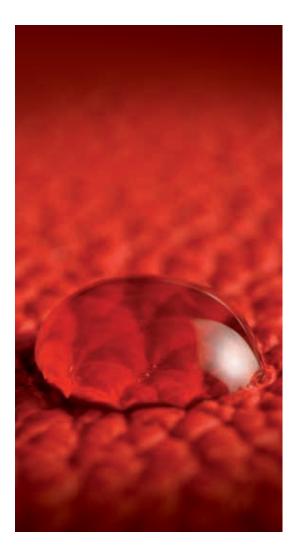
XTREME is a hard-wearing leather which can be used on countless occasions. It features higher values as far as technical properties, feel, elegance and its natural visual appearance are concerned.

#### XTREME CHARACTERISTICS AND APPLICATION

XTREME features itself through a higher resistance against soil, water and insolation. Due to its material thickness of 1.3 – 1.4mm and the strong natural fiber, this special leather boasts a longer service life. Thanks to its higher abrasion resistance values resulting in low maintenance, XTREME is an upholstery leather that is suitable for numerous applications. XTREME's emotional quality comes from the exclusive touch of natural leather combined with a smashing feel, elegance and vibrancy; a feeling only found in natural products.

To offer architects and designers even more design options, all 40 collection colors can additionally be supplied in various structural embossments.

XTREME is promptly available in 40 colors starting with 10 hides per color.





#### FIELDS OF APPLICATIONS

- Fitness and Gym
- Restaurants and Dining rooms
- Bars, Clubs and Lounges
- Theaters, Cinemas and Entertainment rooms
- Shops and Boutiques
- Office and Conference rooms
- Passenger cabins
- Seaports and Marinas











#### COLORS

XTREME is promptly available in **40 colors** starting with 10 hides per color.

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19120 Iceland	19124 Mahe	19130 Samos	19160 Syft	19161 Kos	19163 Maita	19167 Meui	19171 Henelulu	19172 Sal	29120 Fiji
29130 Capri	29160 Certu	29176 Hewan	39114 Tobage	39120 Antigua	39165 Martinique	30168 Ceral	39177 Mykonos	39178 Grenada	49113 Tenga
59120 Sentarin	59122 Elba	59130 Barbados	59138 Conjica	59140 Arube	59170 Jempica	69130 Madeira	69140 Bali	69200 Maldives	79134 Naves
79162 Cayman	79164 Lanzarote	79173 Sumetre	89112 Cubs	89116 Java	89135 Haiki	89170 Sempe	89174 Trinidad	89180 Crete	99123 Fogo

Colors may differ in reality

#### 2.2 ROYAL

The natural beauty and excellent durability of ROYAL upholstery leather from BOXMARK is truly captivating. ROYAL has excellent tensile strength, tear and kink resistance. For many decades its superior quality together with its positive characteristics have made it the perfect choice in manufacturing exclusive seating furniture as well as fixtures and fittings for residential and commercial projects around the globe.

#### **ROYAL EMOTIONS**

Nearly all exclusive BOXMARK Emotions structural embossments are available in the colors of the Royal leather collection and offer thousands of options for design diversity. The embossments and color effects allow the designer and manufacturer to impart outstanding visual accents to every product and to create maximum individuality. Unique effects on the embossed surface are obtained by additonal processing of the surface using special dyes and gloss techniques (catalogue on request).





It is recommended that the Emotions embossments are laminated when used on seat and backrest sections as well as on very taut parts in order to prevent distortion of the embossed structure.

#### ROYAL EMBOSSMENTS



Blackpool



Essex



Torbay



Avon



Manchester



Brighton



Windsor



Devon



York



Bristol



London

Colors may differ in reality

**BOX**MARK

#### TECHNICAL SPECIFICATIONS

- Tensile test (DIN EN ISO I42I)
- Tear resistance (DIN 53356 in Newton)
- Flexing endurance (DIN 53351)
- Color fastness to rubbing (DIN EN ISO 105-X12)
- Martindale abrasion resistance (DIN EN ISO 5470-2)
- Color fastness to light exposure (DIN EN ISO 105-B02)
- Adhesion (IUF 470/ISO ||644)
- Flame resistance for serial leather DIN EN 1021 Part I + 2; ISO 8191-1; BS 5852 source 3; California TB 117 (Draft 02/2002)

Original test certificates are available upon request.

#### FIELDS OF APPLICATIONS

- Restaurants and Dining rooms
- Bars, Clubs and Lounges
- Theaters, Cinemas and Entertainment rooms
- Shops and Boutiques
- Office and Conference rooms
- Passenger cabins
- Seaports and Marinas

excellent excellent 30,000 folds no variation excellent (highest rating) > 100.000 excellent > 2.5 N/10 mm





#### COLORS

ROYAL is 1.3 – 1.4 mm thick and available for modern as well as classical styles, offering **57 different colors** as well as 19 different, hand-wiped reptile and structural prints in the "ROYAL-Emotions" version.

788115	l'anna	1000	Sum (	NY ALL	870077	8 Martin	William	844			
19120 White	19124 Archic	19130 Lightgrey	19560 Stone	19361 kory	19163 SmokedDyster	19167 Cley	19171 Beige	19172 Snew	29110 Khali	29120 Amber	29130 Yellow
29140 Sahara	29176 Sun	39113 Auburn	20114 Ruby Red	39120 Mandarine	39137 Cherry	39165 Raspberry	39058 Ceral	39175 Pust	39177 Crange	301.78 Fire	39179 Aubergine
49115 Chocolate	43135 Fuchaia	59120 Adure	SPL21 Steel	S9122 French Blue	59130 Aquamerine	59131 Legoon	59136 Mary	SP138 Due	59140 Sky	59170 Deep Sea	69117 Opal Green
69118 Torbernit	69119 Hunter	69130 Midnight Jade	69121 Apple	67130 Laurel	69140 Forest	69200 Pistachie	79134 Sete	79142 Gravel	79164 Pewter	79273 Reed	87111 Seddle Brown
89112 Cinnamon	89116 Terra	89133 Tobacco	89135 Chestrud	89139 Walesat	89170 Mahogany	89174 Mutt	89180 Gold	99123 Black	Co	olors may dif	fer in reality

### **BOX**MARK

### 2.3 MONDIAL

MONDIAL is an exclusive thick leather in 1.6 - 1.8 mm. It is especially hard-wearing with a heavy grain structure, available in **40 colors** and perfectly suitable for cube-shaped seating interior.

MONDIAL has outstanding technical specifications according to all test methods.







### 2.4 COUNT PRESTIGE AND COUNT COMFORT

These leathers are warm and natural leathers in 1,3 - 1,4 mm and 1,6 - 1,8 mm buffed for a smoother touch and a typical 2-tone leather look. The surface is treated with oil and wax which allows to keep its special character and appearance for a long time by re-waxing with the BOXMARK care-cleaning system.

# COUNT PRESTIGE: **13 colors**. COUNT COMFORT **9 colors**.







## 2.5 IMPERIAL CROWN AND IMPERIAL PREMIUM

These leathers are similar to COUNT but full grain with a silky shine on the surface.

IMPERIAL CROWN in 1.6 – 1.8 mm in 17 colors and IM-PERIAL PREMIUM in 1.3 – 1.4 mm in 17 colors, too.

Imperial represents for sure the top of tanning and leather production and is used by premium European furniture producers.







### 2.6 EMOTIONS - COUNT PRESTIGE AND IMPERIAL PREMIUM

Based on the Count Prestige and Imperial Premium Collection, BOXMARK Emotions offers 9 different pattern.



Somerset

Southamptom

Colors may differ in reality

### **2.7 KING**

King is a special tailor-made leather which can be produced according to design and project specifications. It can also be flame retardant-treated according to international standards. KING is a semi aniline leather, available in a thickness of 1.2 to 2.5 mm and in any desired color and structure from a quantity of 50 hides and up.

KING is offered in single colors or in a wide variety of effects such as spot, fat, hand-wiped or antique leather. It is up to you to decide appearance, grain pattern, color and technical requirements. This leather is especially suitable for the upholstery of clear, cubic furniture and objects.

#### FIELDS OF APPLICATIONS

- Room furnishings
- Seating furniture
- Bed headboards
- Wall coverings
- Wrapping of built-in parts
- Design objects
- Exhibits













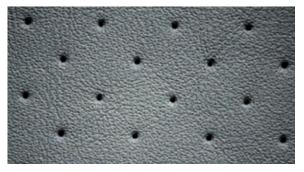
# 3 MARITIME LEATHERS BY TYPE

Article	Colors	Emotion Embossing	IMO Part 8 cushions	IMO Part 5 pannels	Thickness in mm	Weight g/m²
XTREME	40	YES	YES	YES	1.3 - 1.4	850
ROYAL	57	YES	YES	YES	1.3 - 1.4	850
MONDIAL	40	n.a.	YES	YES	1.6 - 1.8	1150
COUNT PRESTIGE	13	YES	YES	n.a.	1.3 - 1.4	850
COUNT COMFORT	9	n.a.	YES	n.a.	1.6 - 1.8	1150
IMPERIAL PREMIUM	17	YES	YES	n.a.	1.3 - 1.4	850
IMPERIAL CROWN	17	n.a.	YES	n.a.	1.6 - 1.8	1150
KING	19	n.a.	YES	YES	-	-

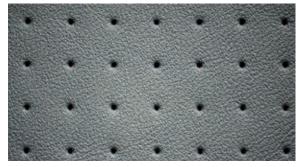
n.a. = not available

#### PERFORATIONS

Available for ROYAL, XTREME and KING



Perforation A1



Perforation A2

# 4 REQUIREMENTS FOR LEATHER SEAT CUSHIONS

### INTERNATIONAL MARITIME ORGANIZATION Resolution MSC.61(67), FTP Code annex 1, part 8

#### PRINCIPLE

An assembly of upholstery materials is subjected to 2 ignition sources: a smoldering cigarette and a flaming source equivalent to a burning match.

#### TEST METHOD

An assembly of tests containing the fabric.

A smoldering cigarette is placed along the joint of seat and back. Any evidence of progressive smoldering and flaming is observed within a period of I hour after placement of the rig. A burner is placed along the joint of seat and back for 20 seconds. Any evidence of progressive smoldering and flaming is observed.

#### RESULTS

Smoldering ignition source:

The specified cigarette is lit and placed onto the joint between the back and base of the seat. Observations relating to progressive smoldering and flaming are recorded over the one hour test duration.

#### FLAMING IGNITION SOURCE

A butane flame of the same calorific value as per a match is placed onto the join between the back and base of the seat. This flame is applied for 20 seconds. Progressive smoldering and flaming within the next 120 seconds after removal of the flame is observed and recorded.

	YPE EXAMINATION (MODULE B) ERTIFICATE Nr. MED039313CS/006	EC TYPE EXAMINATION (MODULE E No. MED039313CS/002	)
delle Infrastrutture e Marittimo ed Interno procedures for the equipt	at RNA, specified as Notified Body N° 0474 by the Italian "Ministero del Trasporti Directone Generale per la navigazione del l'Tesporto "on 23 November 1998, dai understate the relevant per aggroval ment identified below which was found to be in compliance with the Fire etts of Marine Equipment Directive (AED) 96/98/EC as modified by Directive 2011/75/EU Ad3.20 158.144 Upholotstered furniture KiNG BOXMARK LEATHER GMBH&CO KG EVROPASTRASE II AND AND AND AND AND AND AND AND AND EVROPASTRASE II Ad3.20 158.144 Upholotstered furniture KiNG BOXMARK LEATHER GMBH&CO KG EVROPASTRASE II Ad3.20 159.15 Ad3.20 15.2 and X of SOLAS 74 Convention, as amended, RiNA Rules for the certification of Marine Equipment March 7, 2019	This is to certify, that RNA, specified as Notified Body N° 0474 by the, delle Infrastruiture e del Trasporti Directoros Generale per la notigazion Maritimo ed Interno" on 23 November 1998, diffuentationale te relevant procedures for the equipment identified below which was found to be in comp Protection requirements of Mathema Equipment Directive (MED) 9698/EC Directive 2011/75/EU         MED Item N°       A.13.20         UCC Gategory N°       194.144         Description       Upholstered furniture         Type       XTREME         Applicant       BONMARK LEATHER GMBH&CO KI         Testing standards applied Regulations specified       Chose. MSC 88/26/add.2 (2010 FTP codd)         Regulations specified       Chose. MSC 88/26/add.2 (2010 FTP codd)         State of Genoar on February 22       This Cartification Specified Convention, RINA Rules for the certification of Marine February 22	ed II Trasporto type approval liance with the Fire as modified by a modi
its Certificate consists of t	RINA	This Carificate consists of this sheet plus an attachment	vatino

Original test certificates are available upon request.

# 5 REQUIREMENTS FOR INTERIOR WALL PANELS AND CEILING PANELS

INTERNATIONAL MARITIME ORGANIZATION Resolution MSC.61 (67), FTP Code annex 1, part 5

#### PRINCIPLE

Heat release is a measure of the contribution that a burning material makes to a fire in progress, for example, a high rate of heat release will produce a high rate of temperature increase in surrounding on burnt material and accelerate fire spread.

#### TEST METHOD

Specimens are held in a vertical orientation and exposed to a gas fired radiant panel and a non-impinging pilot flame. The hot end of the specimen receives a radiant heat flux of 50.5kW/m<sup>2</sup> and this gradually decreases to a level of 1.2kW/m<sup>2</sup> at the cool end. Although the pilot flame does not normally impinge on the surface of the specimen, it will act as an ignition source for any volatile gases produced by the product.

During the test, the time to ignition, the time at which each 50mm position along the longitudinal centre line of the specimen is reached and the maximum flame travel along the centre line of the specimen is recorded.

The test is stopped when any one of the following occurs:

- I. The specimen fails to ignite following a 10 minute exposure.
- 2. 3 minutes have passed since all flaming from the specimen ceased.
- 3. For floor coverings the test is terminated after 40 minutes, if flaming is still visible at that time.

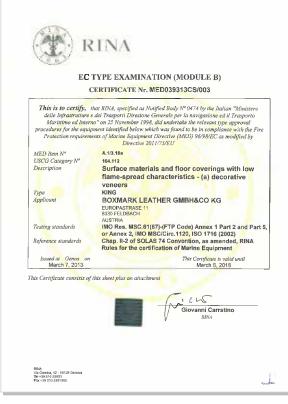
#### RESULTS

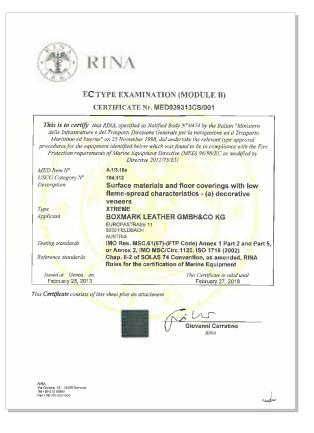
The observations made during the test in conjunction with a trace of the signal from 5 thermocouples located in the stack of the apparatus is used to calculate the following parameters:

Critical Flux at Extinguishment (C.F.E.) - a measure of how far the flames have travelled across the surface of the specimen.
 Heat for Sustained Burning (Qsb) - a measure of how quickly the flames have travelled across the surface of the specimen.
 Total Heat Release (Qt) - calculated by integrating the positive part of the heat release curve during the test period.
 Peak Heat Release (Qp) - the maximum point on the heat release curve during the test period.

The figures achieved for the parameters above in conjunction with the number of flaming droplets produced are used to assess whether or not the product can be deemed to have low flame spread characteristics and the table below summarizes the results which must be achieved.

Type of Product	C.F.E (kw/m²)	Q sb (MJ/m²)	Q t (MJ)	Q p (kW)	Available number of flaming droplets
Floor coverings	≤ 7.0	≤ 0.25	≤ 2.0	≤ 10.0	TEN
All other products	≤ 20.0	≤ 1.5	≤ 0.7	≤ 4.0	ZERO





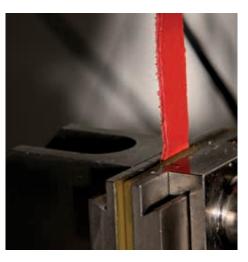
Original test certificates are available upon request.

# 6 TESTS ACCORDING TO DIFFERENT QUALITY STANDARDS

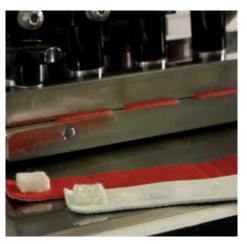
Every charge is identified by a specific code and test report are kept on record for at least 5 years. Physical requirements will vary according the indented and requested use and are engineered in accordance with the OEM specifications.

Leathers can be tested according to following standards, upon customers requirements.

Test & Methods	Standard
Thickness	DIN EN ISO 2589
Weight	DIN EN ISO 2420
Tensile strength	DIN EN ISO 3376
Elongation at break	DIN EN ISO 3376
Tear strength	DIN EN ISO 3377-1 DIN EN ISO 3377-2
Light Fastness	DIN EN ISO 105-B 02
Adhesion of finish	DIN EN ISO   644 IUF 470E
Flexing endurance	DIN EN ISO 5402
Flexing endurance at -10°C	DIN EN ISO 5402
Rub Fastness (color Fastness) Dry, Wet, Perspiration solution pH8	DIN EN ISO 11640
Bending stress resistance	DIN EN ISO 3378
Taber	DIN EN ISO 17076
Color Fastness Water spotting	DIN EN ISO 15700
Thermal and Aging stability	3 days storage in driving over at 50°C







# 7 PRODUCT SAFETY



### Testing and analysis of Polycyclic Aromatic Hydrocarbons

(PAH) for current requirements of the GS Mark Certification.

On November 20, 2007, the Committee for Technical Work Equipment and Consumer Products (AtAv) decided to include the test for **PAH** as a mandatory requirement for **GS Mark** certification. Until now, PAH tests and analyses were conducted voluntarily, independent of GS Mark certification. As of April 1st, 2008, GS Mark certification of products must comply with the PAH limits as defined in the table below.



Test Results for BOXMARK Upholstery Leather, even good enough for Category I Report AZ 44289 TÜV 10/07/2008

Parameter	mg/kg
naphthalene	< 0,2
acenaphthylene	< 0,2
acenaphthene	< 0,2
fluorene	< 0,2
phenanthrene	< 0,2
anthracene	< 0,2
fluoranthene	< 0,2
pyrene	< 0,2
benz[a]anthracene	< 0,2
chrysene	< 0,2
benzo[b]fluoranthene	< 0,2
benzo[k]fluoranthene	< 0,2
benzo[a]pyrene	< 0,2
dibenz[a,h]anthracene	< 0,2
benzo[g,h,i]perylene	< 0,2
indeno[1,2,3-cd]pyrene	< 0,2
Dibenz(ah)anthracene	< 0,2
Benzo(ghi)perylene	< 0,2
Total PAK (EPA)	n.n.

Parameter	Category I	Category 2 (Upholstery materials)	Category 3
Floor coverings	Materials in direct con- tact with food, or ma- terials intended to be put into the mouth, and toys for children aged < 36 months	Materials with foresee- able contact with skin for longer than 30 se- conds (long-term skin contact), and toys not covered by category l	Materials with foreseea- ble contact with skin up to 30 seconds (short- term skin contact) or without skin contact
Benzo[a]pyrene mg/kg	Not detectable (<0.2)	I.	20
Sum of 16 PAH (EPA) mg/kg	Not detectable (<0.2)	10	200

# **8 RINA CERTIFICATIONS**

BOXMARK is certified by RINA, specified as notified body N° 0474, according the set-up criteria in Annex B (Production Quality Assurance-Module-D) to Marine Equipment Directive (MED) 96/98/EC, and subsequent amendments.

BOXMARK did undertake the relevant type approval procedures for the equipment and was found to be in compliance with the Fire Protection requirements of Marine Equipment Directive (MED) 96/98/EC as modified by Directive 2011/75/EU.



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Madale & confidence	8330 FELOBACH ALISTRIA Number MED Date 28/02	038313C5:002 22913 L (No.0474)
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# 8.1 UPHOLSTERED FURNITURE

Upholstered composite made of cover of 100% Bovine leather produced by BOXMARK and any flame or non-flame retardant filling.

 Med Item
 N° A.1/3.20

 USG Category
 N° 164.144

TESTING STANDARDS APPLIED: IMO res. MSC 88/26/add.2 (2010 FTP code) Annex 1 part 8

REGULATIONS SPECIFIED AND REFERENCE DOCUMENTS: Chap. II-2 and X of SOLAS 74 Convention, as amended, RINA Rules for the certification of Marine Equipment

#### USCG APPROVAL:

This product has been assigned a U.S. Coast Guard module B number (USCG number: 164.144/EC0474) to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27th, 2004. The manufacturer is allowed to affix the U.S. Coast Guard approval number to the above equipment subject to the authorization of the Notified Body undertaking the surveillance module.



# 8.2 SURFACE MATERIALS AND FLOOR COVERINGS WITH LOW FLAME-SPREAD CHARACTERISTICS- (A) DECORATIVE VENEERS

As finishing material for all exposed interior and concealed or inaccessible surfaces. The product may be used directly applied to any metallic support having thickness equal or greater than 1.125 mm or glued to a layer of flame retardant product type No. 5501 produced by HANSELTEC (mass per area of 150 g/m2 and thickness of 1.9 mm) in turn glued to any metallic support having thickness equal or greater than 1.125 mm by means of adhesive named SIMAL-FA 3095 with mass per area of 80  $\pm$  20 g/m2. On the basis of the value of the total heat release (Q<sub>t</sub>) and on the basis of the value of the peak heat release (q<sub>p</sub>) the material is deemed not generating excessive quantities of smoke nor toxic products in fire according to Annex 2 IMO Res. MSC. 61(67).

Med Item N° A.1/3.18a USG Category N° 164.112

#### TESTING STANDARDS APPLIED:

IMO res. MSC.61 (67)-(FTP Code) Annex 1 Part 2 and Part 5, or Annex 2, IMO MSC/Circ.1120, ISO 1716 (2002)

#### REGULATIONS SPECIFIED AND REFERENCE DOCUMENTS:

Chap. II-2 of SOLAS 74 Convention, as amended, RINA Rules for the certification of Marine Equipment

#### USCG APPROVAL:

This product has been assigned a U.S. Coast Guard module B number (USCG number: 164.112/EC0474) to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27th, 2004. The manufacturer is allowed to affix the U.S. Coast Guard approval number to the above equipment subject to the authorization of the Notified Body undertaking the surveillance module.

### **8.3 TEST REPORTS**



RINA

Original test certificates are available upon request.

# 9 QUALITY AND ENVIRONMENT

BOXMARK is certified according to ISO 9001 and ISO TS 16949 for the production and development of automotive and furniture leathers. BOXMARK is also certified according to the ISO 14001 Ecological Standard for environmental management.

Our certifications apply to all our departments and activities.

(DAKKS	•	
	CERTI	FICATE
9		Zertflaterserer Anterio
BOXN	IARK <sup>®</sup>	Accessibilities gedetant 26 October 2014
BOXMARK Leather Lederstrase 1 8380 JENNERSDOR OSTERREICH		Guillig bis 25. Oktober 2017
Standard	ISO 9001:2008	
Getungsbersich		
	rstedung von Automobilieder. Mieder	
BOXMARK Leather 0	vird beschvähigt, dans die SmbH & Co. KG ein Qualitätemanagemer Igen der ISD 90012008 singeführt hat	
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	a Macaun	Management Growth



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Standard: Geltungsbereich: Entwicklung und H Möbelieder und Sp	ISO 14001:2009 Ienteilung von Automobilieder, alteder	DAkks Desite
<b>BCOMARK Leather</b>	wird bescheinigt, dass die Grefel & Co. KS alle Unweltnanagemen ingen der ISO 14001/2009 eingeführt hat	
	111 111 111	
8. November 2012	9 Juan	

# **10 INDOOR AIR**



### **10.1 EMISSION CRITERIA**

Standard	BOXMARK
$\leq$ 0.1 TLV	$\leq$ 0.1 TLV
≤ 0.05 ppm	≤ 0.025 ppm
≤ 0.0065 mg/m3	≤ 0.0033 mg/m3
≤ 0.5 mg/m3	≤ 0.056 mg/m3
≤0.1 ppm	≤ 0.05 ppm
	≤ 0.1 TLV ≤ 0.05 ppm ≤ 0.0065 mg/m3 ≤ 0.5 mg/m3



# 10.2 DER BLAUE ENGEL (THE BLUE ANGEL)

The Blue Angel is a German certification for products and services that have environmentally friendly aspects. After the introduction of Germany's Blue Angel in 1978 as the first worldwide environmental label, other European and non-European countries followed this example and introduced their own national and supra-regional environmental labels. The common goal of these labels is to inform consumers about environmentally friendly products thereby giving global support to product-related environmental protection.

In 1994, some countries cooperated in developing the Global Eco Labeling Network (GEN) - a non-profit interest group composed of eco-label organizations throughout the world.



### 10.3 REACH

Registration, Evaluation, Authorization and restriction of Chemicals (REACH) is a European Union Regulation from 18 December 2006.

In accordance with the REACH regulation, BOXMARK is able to issue declarations of conformity for the majority of its products.

REACH addresses the production and use of chemical substances, and their potential impacts on both human health and the environment. Its 849 pages took seven years to be adopted, and it has been described as the most complex legislation in the Union's history and the most important in 20 years. It is the strictest law so far, regulating chemical substances and will impact industries throughout the world. REACH entered into force in June 2007, with step-by-step implementation over the next decade.





BOXMARK LEATHER GMBH & CO KG

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