

EN-71-2-p1

EC Attestation of Conformity

No.: K8 02 09 48092 001



OXFORD IND. CO.

#580, Shinpyong-Dong, Saha-Gu,
Busan,
Korea

2182 CE 022724
TTL 11 PAGES

Product: Toys

Model: Oxford Block Set

Parameters: Width : 400 mm
Length : 270mm
Height : 240 mm
Weight : 1.8 kg
Material : ABS, PE, PC, PP

The equipment complies with the principal protection requirements of the Toys Directive (Directive 88/378/EEC concerning the safety of toys) based on a voluntary test.

This attestation applies only to the particular sample of the product provided for testing and certification. The detailed test results and all standards used as well as the operation mode are listed in

Test report no.: CPSB0180502

Test standards: EN 71-1:1998+A5:2000+A1:2001
EN 71-2:1994/AC:1995
EN 71-3:1995+A1:2000

This attestation is released with the above mentioned attestation number by the Certification Body of TÜV PRODUCT SERVICE. It does not permit the use of a TÜV PRODUCT SERVICE certification mark.

After preparation of the necessary technical documentation as well as the conformity declaration the CE marking as shown below can be affixed on the equipment. Other relevant Directives have to be observed.



Department:
Date:

MESPN / jys
Sep-25-2001

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Technical Report No. CPSB0180502

of 2002-09-19

Client: OXFORD IND., CO
#580, Shinpyung-Dong, Saha-gu,
Busan, Korea

OrderRef.: Go-Hyun Park

Date of order: 9/03/2002

Manufacturing location: See above

Object of evaluation: OXFORD BLOCK SET

Test specifications: EN 71-1:1998+ A5:2000 + A1:2001
EN 71-2:1994/ AC:1995
EN 71-3:1995+A1:2000

Purpose of the evaluation: Safety testing in accordance with the Equipment Safety Law

Test result: The safety technical requirement to the test basics listed in point 2 were fulfilled by OXFORD BLOCK SET submitted for testing.

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1 Description of the test subject

Function of the product as intended:	
Educational Toy/Train Block Set	
Test sample information	
Article designation:	OXFORD BLOCK SET
Article number:	OT 4500
Delivery date:	September 3, 2002
Parameters:	Type : OT 4500
	Width : 400 mm
	Length : 270 mm
	Height : 240 mm
	Material : ABS, PE, PP, PC
	Weight : 1.8 kg
	Specials : -
	Colour : Red, Yellow, Blue, Green, White, Black, Brown, Skin (ABS), Black (PE), Dark Blue (PC) Yellow, Green, Red (PP) Red, Yellow, Blue, Green, White, Black, Brown, Skin, Dark Blue (Sticker) Red, Yellow, Green, Black, Dark Blue (screen print)

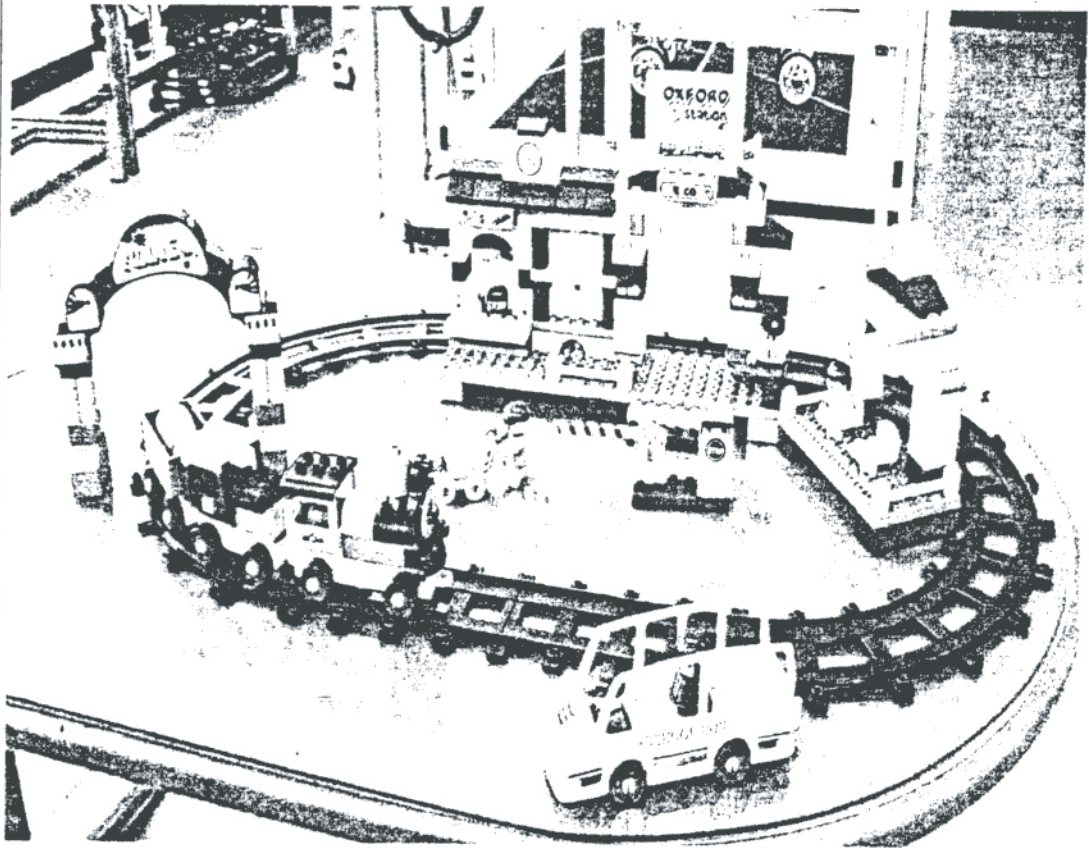
2 Basic requirements of the tests

The tests were carried out according to the Equipment Safety Law based on generally recognized technical rules. The following standards in particular served as the basis:

<i>Test specifications</i>	<i>Titel</i>
EN 71-1:1998+ A5:2000 + A1:2001	Safety of toys - Part 1: Mechanical and physical properties
EN 71-2:1994/ AC:1995	Safety of toys - Part 2: Flammability
EN 71-3:1995+A1:2000	Safety of toys - Part 3: Migration of certain elements

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Picture of the
product:



Test period:

from 9/04/2002

to 9/09/2002

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3 Test results

Prüfergebnisse: --- Test results:	
Y =	fulfilled
N =	not fulfilled, crucial deviation
n =	not fulfilled, further deviation
na =	not applicable
h =	reference / hint

Prüfpunkt --- Test topic	Anforderung - Prüfung --- Requirement - test	Ergebnisse - Bemerkungen --- Results - remarks	Wertung -- Evaluation
1	General requirements (EN 71-1:1998 Pt.4)		Y
1.1	Materials (EN 71-1:1998 Pt.4.1)		Y
	The materials must be visually clean and free from infestation.		Y
1.1.1	Migration of certain elements (EN 71-3)		Y
	The maximum content of metal of the materials shall be less than the limits. (see table 1)		Y
1.1.2	Flammability (EN 71-2)		Y
	There shall be no "Flash-Effect" at the surface.		Y
	The speed of the flame at the fabric shall be less than 30 mm/s.		Y
1.2	Flexible plastic Sheeting (EN 71-1:1998 Pt.4.3)		Y
	Toys with flexible plastic sheeting must conform to the following requirements:		h
	– Sheets without any backing and of an area of 100 mm x 100 mm shall have an average thickness of 0.038 mm or more. (According to EN 71-1 Pt. 8.26.1)		Y
1.3	Edges (EN 71-1:1998 Pt.4.7/8.11)		Y
	Accessible edges of the toy must at least satisfy the following requirements:		h
	– they are not sharp edges. (Testing measured by EN 71-1 Pt. 8.11) or		Y
	– they may be folded, rolled or spiralled		na

Prüfpunkt --- Test topic	Anforderung - Prüfung --- Requirement - test	Ergebnisse - Bemerkungen --- Results - remarks	Wertung -- Evaluation
	to make them inaccessible or protected by a coating of plastic.		
1.4	Points and Wires (EN 71-1:1998 Pt.4.8)		Y
	There must not be any points and wires present in the toy that can cause an unreasonable risk of injury. (Testing with sharpness testing tools Pt. 8.12)		Y
1.5	Hinges (EN 71-1:1998 Pt.4.10.3)		Y
	Toys having two parts joined by means of one or more hinges and with a space between the assembled edges along the hinge line, shall be so constructed that this space, if it allows a 5 mm diameter rod to be inserted, shall also allow a 12 mm diameter rod to be inserted with the parts in any position.		Y
2	Marking (EN 71-1:1998 Pt.7)		Y
	The toy or its packaging must bear in an easily legible and durable form the following: – the firm's name and/or trade name and/or mark as well as the address of the manufacturers or his sign of authority or of the importers of the community that brought it in – The toy or its packaging must bear in a legible and durable form the CE marking.		Y Y
3	Packaging (EN 71-1:1998 Pt.6)		Y
	Bags made of flexible plastics, with an opening perimeter greater than 380 mm used for external or internal packaging, shall have an average sheet thickness of not less than 0,038 mm.		Y
	Bags made of flexible plastics, with an opening perimeter greater than 380 mm shall not have a draw-string or cord as a means of closing.		Y

Prüfpunkt --- Test topic	Anforderung - Prüfung --- Requirement - test	Ergebnisse - Bemerkungen --- Results - remarks	Wertung -- Evaluation
4	Warnings and Instructions For Use		Y
4.1	General		Y
4.1.1	<p>Toys not intended for children under 36 months</p> <p>The provisions in 4.1.1 do not apply to toys which, on account of their function, dimensions, characteristics, properties or other cogent grounds, are manifestly unsuitable for children under 36 months.</p>		h
	<p>Toys which are not intended for, but might be dangerous for, children under 36 months shall bear a warning, for example:</p> <p>"Not suitable for children under 36 months" or "Not suitable for children under three years"</p> <p>together with a brief indication of the specific hazard calling for this restriction.</p>		Y
	The age warning shall be clearly legible at the point of sale of the product.		Y
	The age warning shall appear either on the toy itself or on its retail packaging.		Y
	The indication of the specific hazard may appear on a leaflet or in the instructions for use.		Y
	The age warning may be substituted by a symbol as specified in EN 71-6 Safety of toys — Part 6: Graphical symbol for age warning labelling.		Y

Table 1 - Migration of certain elements (EN 71-3)

Test sample 1: Red (ABS)	Test sample 15: Yellow (Sticker)
Test sample 2: Yellow (ABS)	Test sample 16: Green (Sticker)
Test sample 3: Blue (ABS)	Test sample 17: White (Sticker)
Test sample 4: Green (ABS)	Test sample 18: Black (Sticker)
Test sample 5: White (ABS)	Test sample 19: Brown (Sticker)
Test sample 6: Black (ABS)	Test sample 20: Skin (Sticker)
Test sample 7: Brown (ABS)	Test sample 21: Dark Blue (Sticker)
Test sample 8: Skin (ABS)	Test sample 22: Blue (Sticker)
Test sample 9: Black (PE)	Test sample 23: Yellow (screen print)
Test sample 10: Dark Blue (PC)	Test sample 24: Green (screen print)
Test sample 11: Yellow (PP)	Test sample 25: Red (screen print)
Test sample 12: Green (PP)	Test sample 26: Black (screen print)
Test sample 13: Red (PP)	Test sample 27: Dark Blue (screen print)
Test sample 14: Red (Sticker)	

Grenzwerte: --- Limit:			Wertung --- Evaluation [mg/kg]								
			Probe Nr.: --- Test sample no.:								
			1	2	3	4	5	6	7	8	9
Antimon: --- Antimony:	60	mg/kg	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Arsen: -- Arsenic:	25	mg/kg	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Barium:	1000	mg/kg	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Cadmium:	75	mg/kg	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Chrom: --- Chromium:	60	mg/kg	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Blei: --- Lead:	90	mg/kg	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Quecksilber: --- Mercury	60	mg/kg	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Selen: --- Selenium:	500	mg/kg	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0

Grenzwerte: --- Limit:			Wertung --- Evaluation [mg/kg]								
			Probe Nr.: --- Test sample no.:								
			10	11	12	13	14	15	16	17	18
Antimon: --- Antimony:	60	mg/kg	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Arsen: -- Arsenic:	25	mg/kg	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Barium:	1000	mg/kg	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Cadmium:	75	mg/kg	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Chrom: --- Chromium:	60	mg/kg	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Blei: --- Lead:	90	mg/kg	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Quecksilber: --- Mercury	60	mg/kg	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Selen: --- Selenium:	500	mg/kg	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0

Grenzwerte: --- Limit:			Wertung --- Evaluation [mg/kg]								
			Probe Nr.: --- Test sample no.:								
			19	20	21	22	23	24	25	26	27
Antimon: --- Antimony:	60	mg/kg	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Arsen: -- Arsenic:	25	mg/kg	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Barium:	1000	mg/kg	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Cadmium:	75	mg/kg	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Chrom: --- Chromium:	60	mg/kg	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Blei: --- Lead:	90	mg/kg	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Quecksilber: --- Mercury	60	mg/kg	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Selen: --- Selenium:	500	mg/kg	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0

Summary of the recorded deviations

- Deviations, crucial for the product safety:
Keine --- None
- Further deviations:
Keine --- None

Für die Prüfung / Zertifizierung / Fertigungsbesichtigung kritische Punkte: ---
Important aspects for test / certification / factory inspection:

Keine --- None

4 Summary

The safety technical requirements to the test basics listed in point 2 were fulfilled by OXFORD BLOCK SET submitted for testing.

5 Special attention

The following must be modified before the CE marking can be fixed :

- Translate all contents on packaging in English
- Add // **Warning** – "Not suitable for children under 36 months" on a packaging and a leaflet for use.

Test sample - storage:

The presented test samples are disposed by the test laboratory.

TÜV PRODUCT SERVICE Co., Ltd.



Project Engineer

J.Y. Son