



**Test Report**

No.: SHHL2404018715TY

Date: JUL. 11, 2024

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HAPE INTERNATIONAL (NINGBO) LTD  
 HAPPY ARTS&CRAFTS(NINGBO)CO.,LTD  
 9-27NANHAI ROAD, DAGANG INDUSTRIAL CITY, BEILUN, NINGBO, CHINA

Sample Description : RECORD LISTEN & LIGHT RAILWAY STATION/ BIG ENGINE SHED/ AUTOMATIC GATES RAIL CROSSING/ EXTENDED DOUBLE SUSPENSION BRIDGE/ ADJUSTABLE RAIL TURNTABLE/ ADVANCED TRACK-BUILDING KIT/ T-SWITCH TRACK/ 4 SHORT CURVED TRACKS/ 4 LONG CURVED TRACKS/ 4 SHORT STRAIGHT TRACKS/ 4 LONG STRAIGHT TRACKS/ 2 SWITCH TRACKS/ 2 ADJUSTABLE SWITCH TRACKS

Sample Quantity : 65 SETS

Style / Item No. : E3702/ E3704/ E3705/ E3710/ E3723/ E3733/ E3775/ E3776/ E3777/ E3778/ E3779/ E3780/ E3781

Country of Origin : CHINA

Country of Destination : GLOBAL

Labeled Age Grading : E3710, E3702: 3+, E3733, E3723, E3704, E3705, E3780, E3781, E3777, E3776, E3778, E3775, E3779:3Y+

Requested Age Grading : 3Y+

Client Reference Information : E3702B/ E3704A/ E3705B/ E3710B/ E3723B/ E3733B/ E3775A/ E3776A/ E3777A/ E3778A/ E3779A/ E3780A/ E3781A  
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Source of Sample : SENT BY CLIENT.

Age Group Assessed as Per Age Guideline : 3 YEARS+

Age Group Applied in Testing : 3 YEARS+

Sample Receiving Date : APR. 17, 2024

Further Information Date : APR. 29, 2024

Testing Period : APR. 17, 2024 TO MAY 11, 2024

Test Requested	Result
ASTM F963-23 Standard Consumer Safety Specification for Toy Safety	Pass
Tracking label per 15 U.S.C. § 2063(a)(5) and Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.	Pass
Physical and mechanical tests consisting US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 and US CPSC 16 CFR 1501	Pass
US CPSC 16 CFR 1500.19 – Misbranded toys and other articles intended for use by children	Not Applicable
US CPSC 16 CFR 1500.44 – Method for determining extremely flammable and flammable solids	Pass
CPSIA section 101(f) - Lead in paint/similar surface coating material	Pass
Part 1303, Title 16, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A.-Lead in paint/similar surface coating material	Pass
Total Lead Content (Metal)	Pass
CPSIA section 101(a)(2) - Lead in accessible substrate materials	Pass
Total Lead Content (Non-Metal)	Pass
Total Lead Content (Coating)	Pass



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Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Jessie Zhou  
Authorized Signatory



**Test Result**

**ASTM F963-23 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY**

AS SPECIFIED IN ASTM F963-23 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	Safety Requirements	
4.1	Material Quality **	<u>Pass</u>
4.2	Flammability Test	<u>Pass</u>
4.3	Toxicology	
4.3.5	Heavy Elements	
4.3.5.1	Heavy Elements in Paint/Similar Surface Coating Materials	<u>Pass (See Result Page)</u>
4.3.5.2	Heavy Metal in Substrate Materials	<u>Pass (See Result Page)</u>
4.3.8	Phthalates	<u>Pass (See Result Page)</u>
4.5	Sound-producing Toys	<u>Pass</u>
4.6.3	Labelling Requirements	<u>N/A (See Remark)</u>
	Remark: The toy does not contain as-received small part.	
4.7	Accessible Edges	<u>Pass</u>
4.8	Projections	<u>Pass</u>
4.9	Accessible Points	<u>Pass</u>
4.11	Nails and Fasteners	<u>Pass</u>
4.12	Plastic Film	<u>Pass</u>
4.25	Battery-operated Toys	<u>Pass</u>
5	Safety Labeling Requirements	
5.1	Federal Government Requirements	
5.1.1	Specific Labeling Requirement	<u>See Remark</u>



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Remark: All toys that fall within the definitions and requirements of the U.S. FHSA shall conform to the labeling requirement of that act. For specific requirements, reference 16 CFR 1500.3, 1500.14, 1500.19, 1500.82, 1500.83, 1500.86, 1500.121, 1500.122, 1500.123, 1500.125, 1500.126, 1500.127, 1500.128, 1500.130, 1505.3, and 1511.7. In addition, state labeling requirements may exist.

5.1.2	Tracking Label	<u>Pass</u>
5.2	Age Grading Labeling	<u>Pass</u>
5.15	Promotional Materials	<u>Pass</u>
6	Instructional Literature	
6.5	Battery-operated Toys	<u>Pass</u>
7	Producer's Markings	
7.1	Producer's Markings	<u>Pass</u>
8.5	Normal Use Testing	<u>Pass</u>
8.7	Impact Test	<u>Pass</u>
8.8	Torque Test	<u>Pass</u>
8.9	Tension Test	<u>Pass</u>
8.10	Compression Test	<u>Pass</u>

N/A = Not Applicable

\*\* Visual Examination

Result Page:

ASTM F963-23, Clause 4.2 – Flammability Test  
Flammability Test on Solid

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>
RAILWAY STACK ACCESSORIES	0.03

Requirement: A toy / component is considered a “flammable solid” if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

**Tracking label per 15 U.S.C. § 2063(a)(5) and Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children’s products.**

As specified in 15 U.S.C. § 2063(a)(5) and Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children’s products.

- Tracking label on the packaging: Present
- Tracking label on the product: Present

Note: The tracking label assessment was based on the submitted samples and the information provided by the



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applicant. There was no verification on the validity of such information.

**PHYSICAL AND MECHANICAL TESTS CONSISTING US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 AND US CPSC 16 CFR 1501**

AS SPECIFIED IN PHYSICAL AND MECHANICAL TESTS CONSISTING US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 AND US CPSC 16 CFR 1501

	<u>No. of sample tested</u>	<u>Sharp point (16 CFR 1500.48)</u>	<u>Sharp edge (16 CFR 1500.49)</u>	<u>Small part (16 CFR 1501)</u>
As received	13	Pass	Pass	N/A
Impact test (16 CFR 1500.53b)	13	Pass	Pass	N/A
Bite test (16 CFR 1500.53c)	0	N/A	N/A	N/A
Flexure test (16 CFR 1500.53d)	0	N/A	N/A	N/A
Torque test (16 CFR 1500.53e)	13	Pass	Pass	N/A
Tension test (16 CFR 1500.53f)	13	Pass	Pass	N/A
Compression test (16 CFR 1500.53g)	2	Pass	Pass	N/A

N/A = Not Applicable

**US CPSC 16 CFR 1500.19 – MISBRANDED TOYS AND OTHER ARTICLES INTENDED FOR USE BY CHILDREN**

N/A

**US CPSC 16 CFR 1500.44 – METHOD FOR DETERMINING EXTREMELY FLAMMABLE AND FLAMMABLE SOLIDS**

AS SPECIFIED IN US CPSC 16 CFR 1500.44 – METHOD FOR DETERMINING EXTREMELY FLAMMABLE AND FLAMMABLE SOLIDS

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>
RAILWAY STACK ACCESSORIES	0.03

Requirement: A toy / component is considered a “flammable solid” if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

N.B. : - Only applicable clauses were shown.

**Test Part Description:**

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA24-0089395-0001.C001	Red coating
SN2	A2	SHA24-0089395-0001.C002	Grey coating
SN3	A3	SHA24-0089395-0001.C003	Black coating



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SN ID	Sample No.	SGS Sample ID	Description
SN4	A4	SHA24-0089395-0001.C004	White coating
SN5	A5	SHA24-0089395-0001.C005	Grey PP
SN6	A6	SHA24-0089395-0001.C006	Red ABS
SN7	A7	SHA24-0089395-0001.C007	Grey ABS
SN8	A8	SHA24-0089395-0001.C008	Red PE
SN9	A9	SHA24-0089395-0001.C009	Yellow ABS
SN10	A10	SHA24-0089395-0001.C010	Red PP
SN11	A11	SHA24-0089395-0001.C011	Chocolate plastic
SN12	A12	SHA24-0089395-0001.C012	Yellow PE
SN13	A13	SHA24-0089395-0001.C013	Natural colored plywood
SN14	A14	SHA24-0089395-0001.C014	Natural colored MDF
SN15	A15	SHA24-0089395-0001.C015	Natural colored solid wood
SN16	A16	SHA24-0089395-0001.C016	Silvery metal screw
SN17	A5+A6+A7	SHA24-0089395-0002	Grey PP + Red ABS + Grey ABS
SN18	A8+A9+A10	SHA24-0089395-0003	Red PE + Yellow ABS + Red PP
SN19	A11+A12	SHA24-0089395-0004	Chocolate plastic + Yellow PE

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-“ = Not Regulated

**CPSIA section 101(f) - Lead in paint/similar surface coating material**

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Lead (Pb)	0.009	%	0.0020	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A4
Lead (Pb)	0.009	%	0.0020	ND
<b>Conclusion</b>				<b>Pass</b>

**Part 1303, Title 16, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A.-Lead in paint/similar surface coating material**

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.



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Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Lead(Pb)	0.009	%	0.0020	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A4
Lead(Pb)	0.009	%	0.0020	ND
<b>Conclusion</b>				<b>Pass</b>

## Total Lead Content (Metal)

Test Method: With reference to CPSC-CH-E1001-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A16
Lead(Pb)	40	mg/kg	20	ND
<b>Conclusion</b>				<b>Pass</b>

### Notes:

(1) The maximum permissible limit is quoted from the client requirement.

## CPSIA section 101(a)(2) - Lead in accessible substrate materials

Test Method: With reference to CPSC-CH-E1002-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A5	A6	A7
Lead (Pb)	0.01	%	0.0020	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A8	A9	A10
Lead (Pb)	0.01	%	0.0020	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A11	A12
Lead (Pb)	0.01	%	0.0020	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>



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Test Method: With reference to CPSC-CH-E1001-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A16
Lead (Pb)	0.01	%	0.0020	ND
<b>Conclusion</b>				<b>Pass</b>

**Total Lead Content (Non-Metal)**

Test Method: With reference to CPSC-CH-E1002-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A5	A6	A7
Lead(Pb)	40	mg/kg	20	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A8	A9	A10
Lead(Pb)	40	mg/kg	20	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A11	A12
Lead(Pb)	40	mg/kg	20	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>

**Notes:**

(1) The maximum permissible limit is quoted from the client requirement.

**ASTM F963-23, Clause 4.3.5.1 – Soluble Heavy Metal in Paint and Similar Surface-coating Materials**

Test Method: With reference to ASTM F 963-23 (Clause 8.3), analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A1*	A2*	A3
Soluble Mercury(Hg)	60	mg/kg	5	-	-	ND
Soluble Chromium(Cr)	60	mg/kg	5	-	-	ND
Soluble Cadmium(Cd)	75	mg/kg	5	-	-	ND
Soluble Barium(Ba)	1000	mg/kg	10	-	-	ND
Soluble Arsenic(As)	25	mg/kg	2.5	-	-	ND
Soluble Lead(Pb)	90	mg/kg	5	-	-	ND



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Test Item(s)	Limit	Unit(s)	MDL	A1*	A2*	A3
Soluble Antimony(Sb)	60	mg/kg	5	-	-	ND
Soluble Selenium(Se)	500	mg/kg	10	-	-	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A4*
Soluble Mercury(Hg)	60	mg/kg	5	-
Soluble Chromium(Cr)	60	mg/kg	5	-
Soluble Cadmium(Cd)	75	mg/kg	5	-
Soluble Barium(Ba)	1000	mg/kg	10	-
Soluble Arsenic(As)	25	mg/kg	2.5	-
Soluble Lead(Pb)	90	mg/kg	5	-
Soluble Antimony(Sb)	60	mg/kg	5	-
Soluble Selenium(Se)	500	mg/kg	10	-
<b>Conclusion</b>				<b>Pass</b>

**Notes:**

- (1) Results shown are of the adjusted analytical results.
- (2) Mass of trace amount of sample A2 is 28.3 mg.
- (3) ●As received, the test portion of samples from one whole sample are less than 10mg, therefore such components were not tested for certain migration elements, as specified in ASTM F963-23 Clause 8.3.3.6 (2).

**Total Lead Content (Coating)**

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Lead(Pb)	40	mg/kg	20	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A4
Lead(Pb)	40	mg/kg	20	ND
<b>Conclusion</b>				<b>Pass</b>

**Notes:**

- (1) The maximum permissible limit is quoted from the client requirement.



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## ASTM F963-23, Clause 4.3.8 – Phthalates

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A5+A6+A7	A8+A9+A10	A11+A12
Di-butyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	0.1	%	0.005	ND	ND	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	0.1	%	0.005	ND	ND	ND
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%	0.005	ND	ND	ND
Dipentyl Phthalate (DPENP)	131-18-0	0.1	%	0.005	ND	ND	ND
Dihexyl Phthalate (DHEXP/ DnHP)	84-75-3	0.1	%	0.005	ND	ND	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	0.1	%	0.005	ND	ND	ND
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

## ASTM F963-23, Clause 4.3.5.2 – Soluble Heavy Metal in Substrate Materials

Test Method: With reference to ASTM F 963-23 (Clause 8.3), analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A5	A6	A7
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>



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Test Item(s)	Limit	Unit(s)	MDL	A8	A9	A10
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A11	A12	A13
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A14	A15
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND
Soluble Lead(Pb)	90	mg/kg	5	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>

**Notes:**

(1) Results shown are of the adjusted analytical results.

**ASTM F963-23, Clause 4.3.5.2 – Total Lead in Substrate Materials**

Test Method: With reference to CPSC-CH-E1001-08.3, analysis was performed by AAS/ICP-OES.



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Test Item(s)	Limit	Unit(s)	MDL	A16
Total Lead (Pb)	100	mg/kg	20	ND
<b>Conclusion</b>				<b>Pass</b>

Test Method: With reference to CPSC-CH-E1002-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A5	A6	A7
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A8	A9	A10
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A11	A12
Total Lead (Pb)	100	mg/kg	20	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>

## ASTM F963-23, Clause 4.3.5.1 – Total Lead in Paint and Similar Surface-coating Materials

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A4
Total Lead (Pb)	90	mg/kg	20	ND
<b>Conclusion</b>				<b>Pass</b>

### Remark:

Test was conducted on composite of random parts of the item as per client's request.  
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2. The declaration of conformity is based on acceptance limits chosen based on simple acceptance ( $w = 0$ ,  $AL = TL$ ).

Statements of conformity are reported as:

Passed - The measured values were observed in tolerance at the points tested.

Failed - One or more measured values were observed out of tolerance at the points tested.



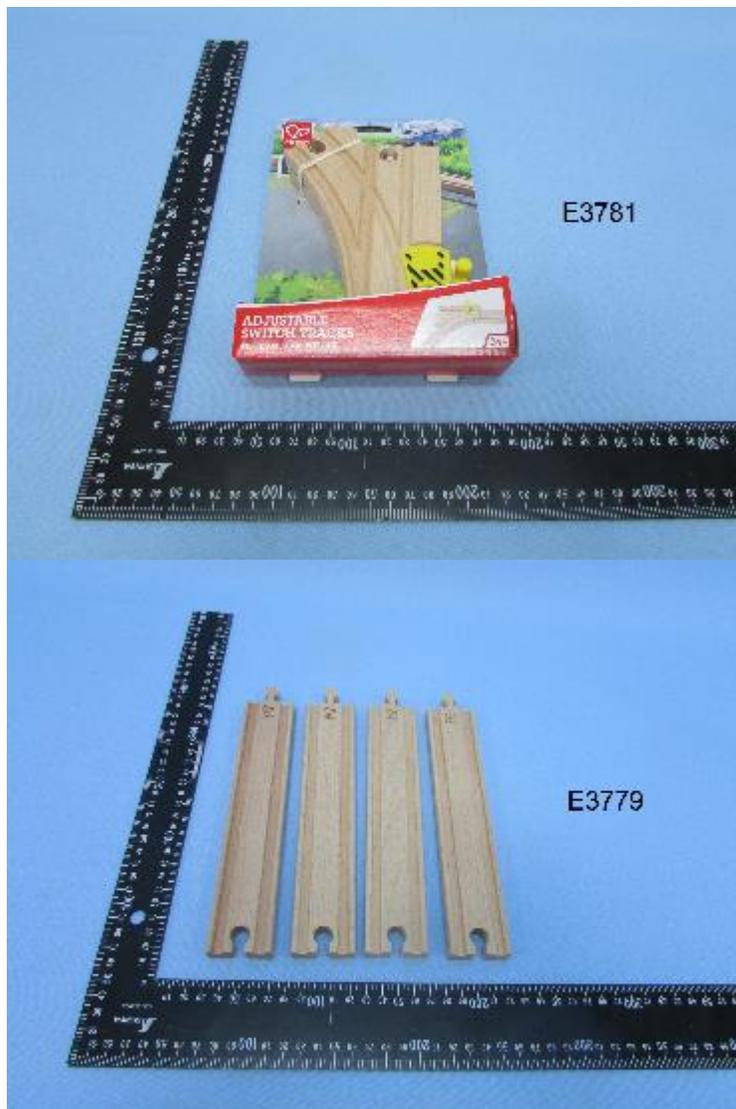
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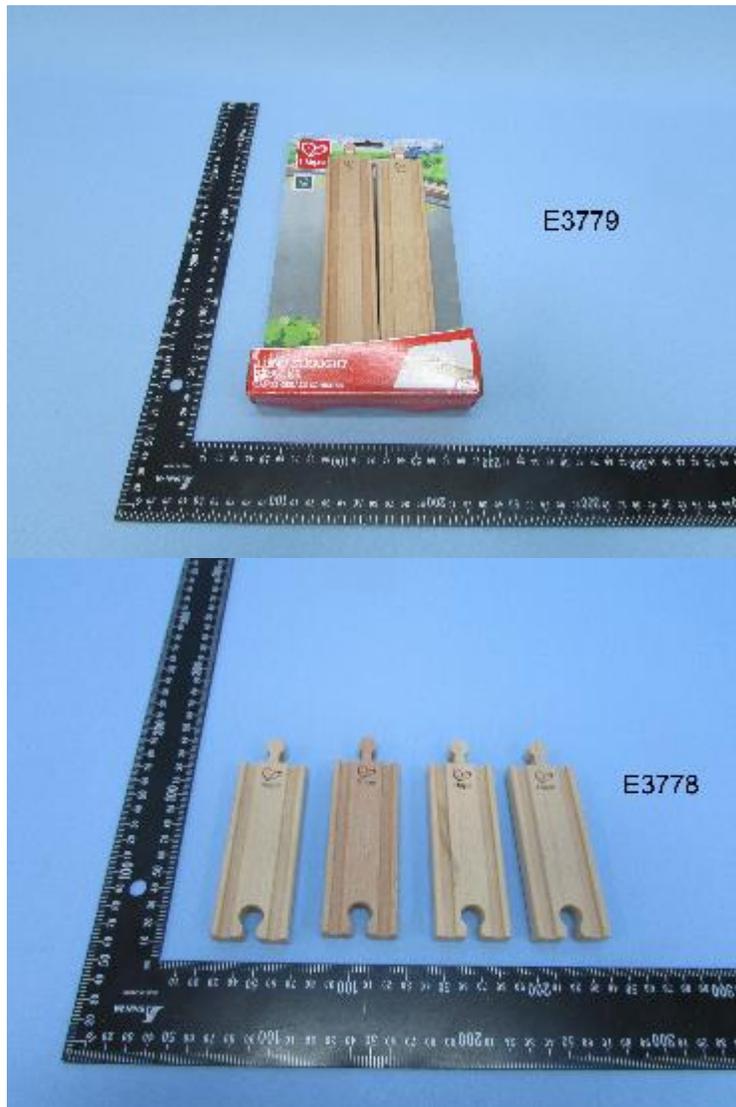
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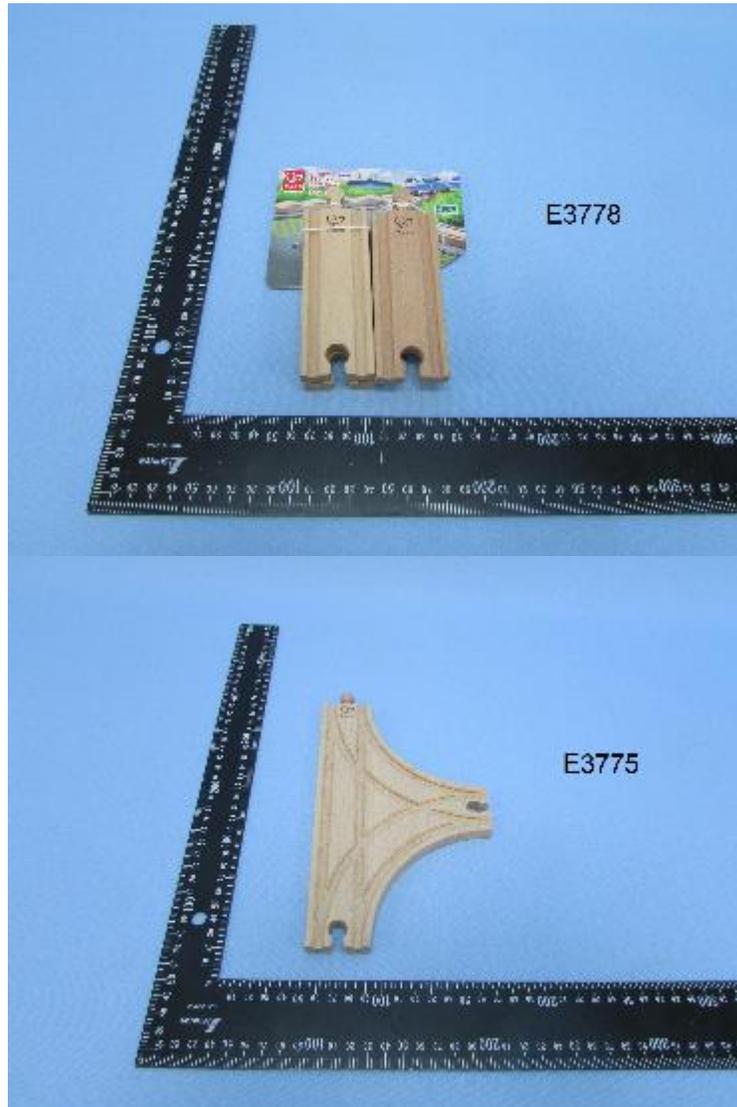
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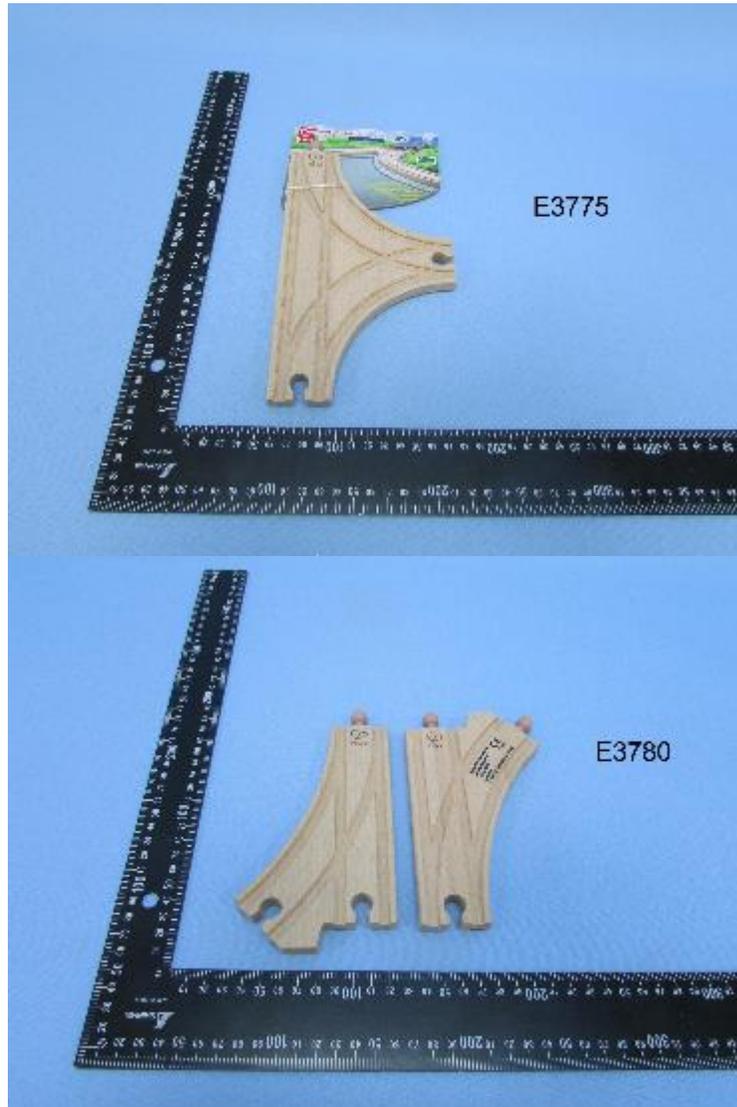
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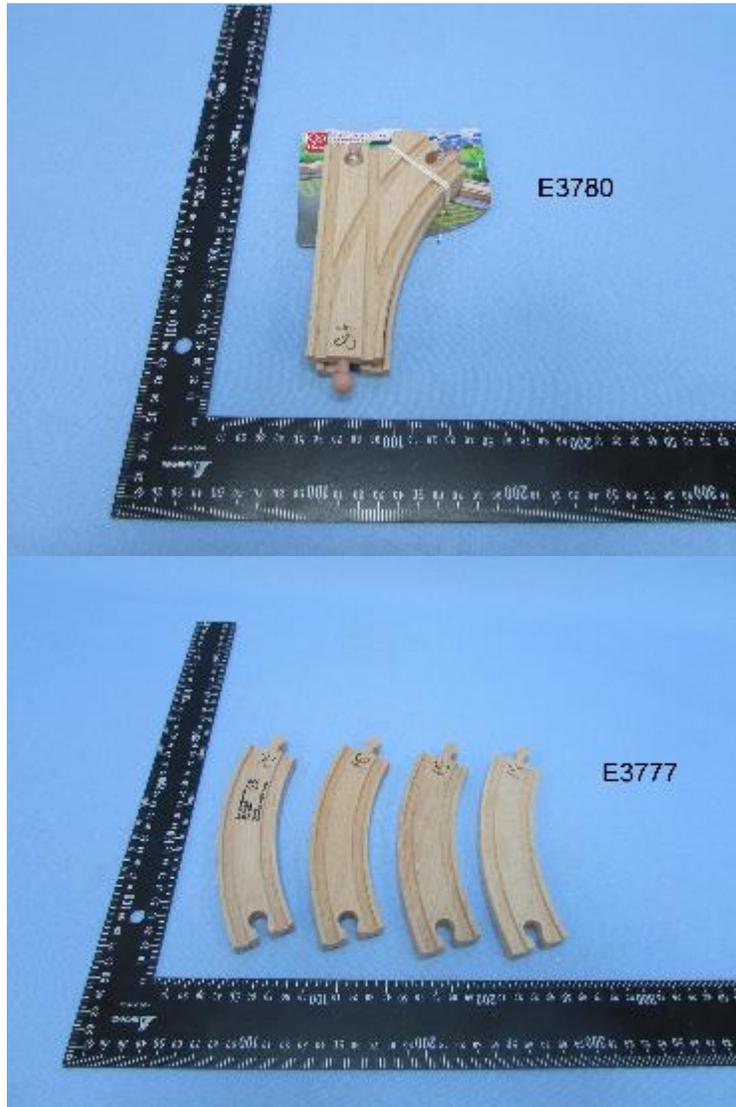
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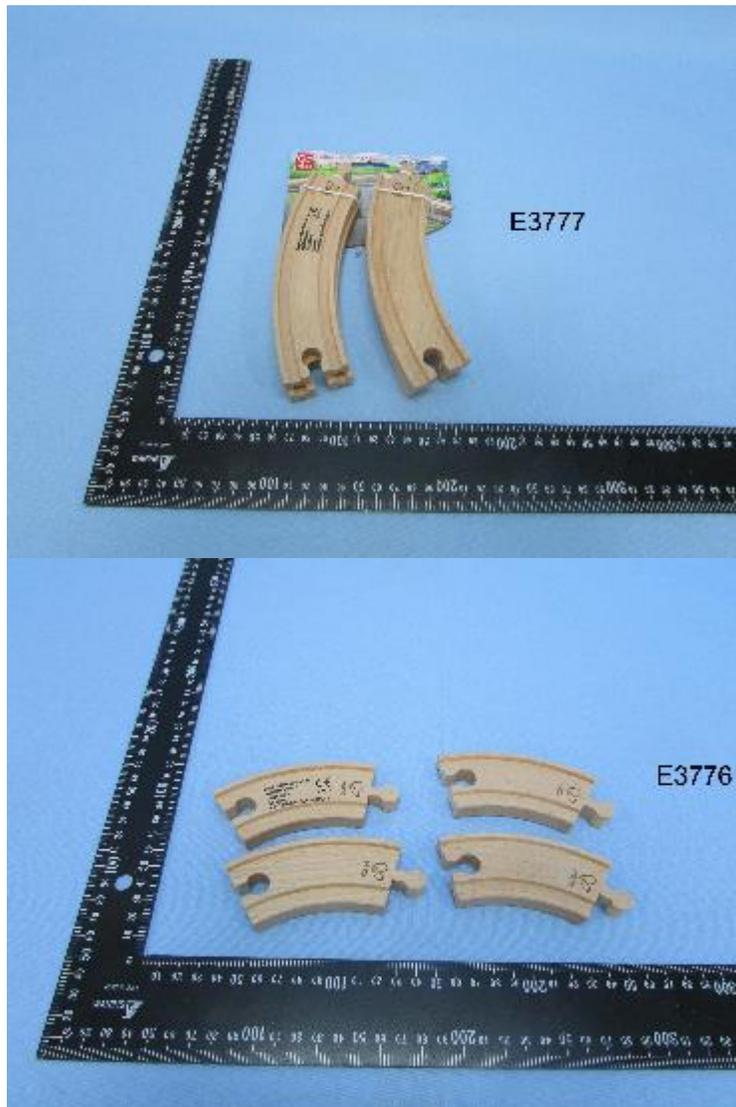
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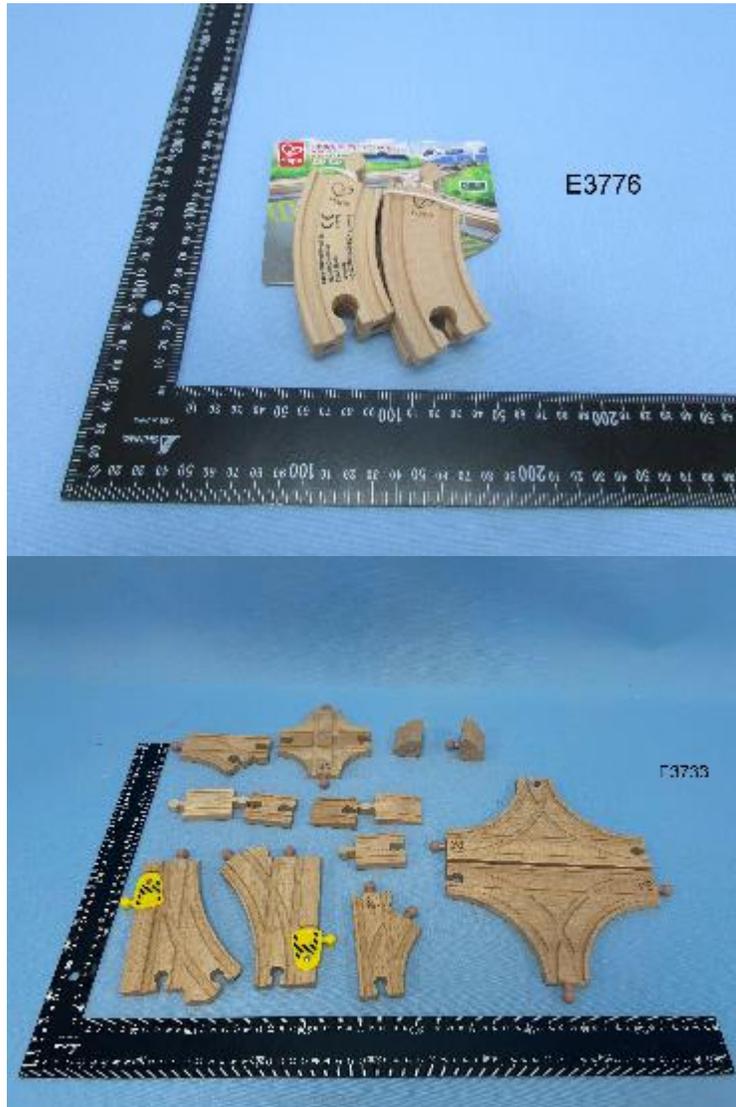
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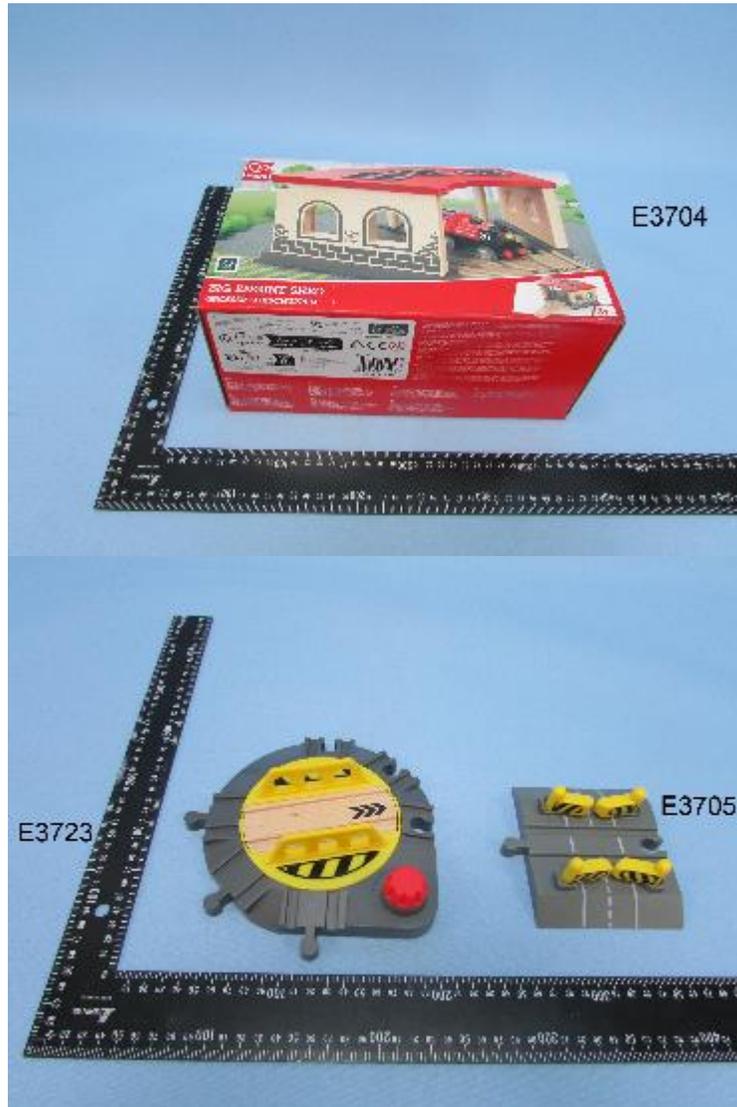
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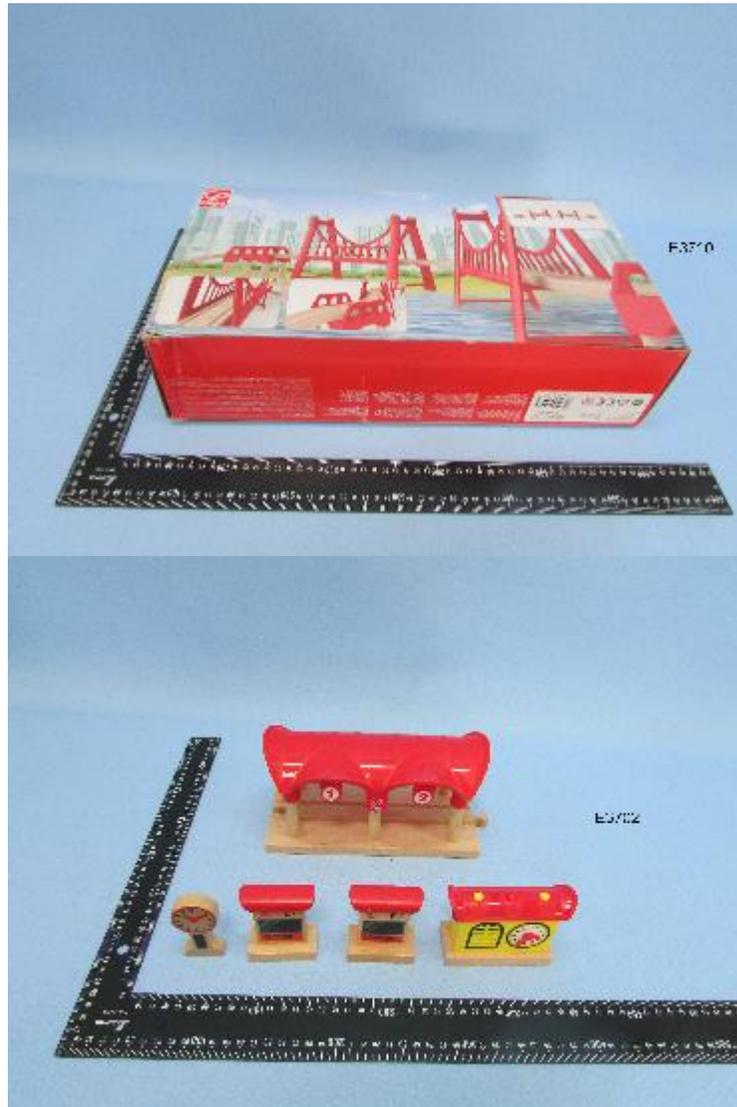
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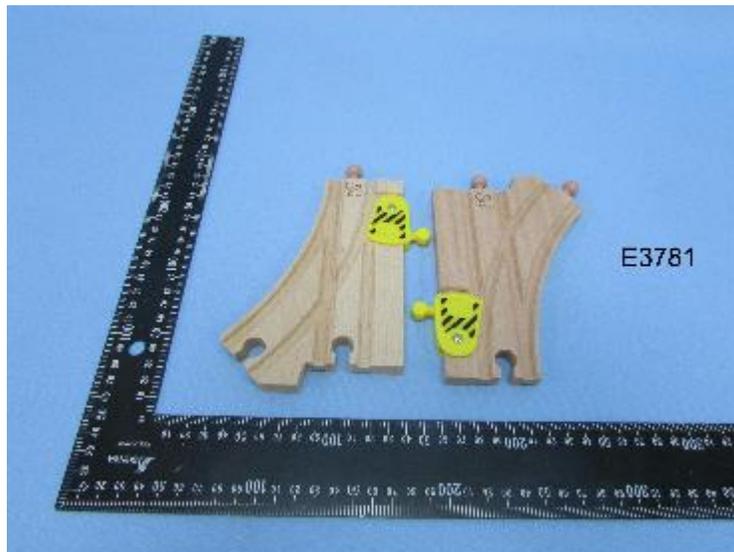
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