

JUNIPLIANCE TESTING FOR BS EN 1078:2012+A1:2012 HELMETS USED FOR PEDAL CYCLISTS AND FOR USERS OF SKATEBOARDS AND ROLLER SKATES Brand FOR BS EN 1078:2012+A USED FOR PEDAL CYCLISTS AND FOR OF SKATEBOARDS AND ROLLER SKATES Brand Model Tested C: Written opprovdifton

Country of Origin : China : 5 and older Age Grading

Prepared For: Children's Product

Troy Lee Designs 155 East Rincon Street, Corona, California



Final Report: 889.11339.008

Tested by: Taicang ACT Sporting Goods Testing Co., Ltd.

No. 35 Zhenghe Road, Ludu Town, Taicang City, Suzhou, Jiangsu Province, China 215412 www.act-lab.com

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Contract File No.: 889.11339

Test File: 008

Control Document: Official ACT BS EN 1078 Report Template CN 1 July 2022 Rev.10 SharePoint/GlobalResourceLibrary/Reporting/ReportTemplates/Helmets/EN

Technician: Edward Wang Cant in full with Test Date: 03 August 2022

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HELMET DATA

Brand:	Troy Lee Designs	Retention System:	ITW 2010		
Model:	FLOWLINE SE MIPS	Age Grading:	5 and older		
Manufacturer:	VENDOR	Test Headform Size:	EN 960 Size 625 (O)		
Date of Manufacture:	TBD	Helmet Positioning Index (HPI):	ACT Determined: 48 mm *Measured from the basic plane		
Tested Size:	60-63 cm	EPS Bead Color:	B l ack + Grey		

Helmet Number:	Weight (g):
1	400
2	398
3	399
4	401
Average:	390

Conditioned Temperatures				
Lab Humidity:	57%			
Ambient Lab Temp.:	22°C			
High Temperature	50°C			
Low Temperature:	-20°C			
Artificial Aging:	33°C			

Comments:

- All nelmets were received in undamaged condition and were appropriate for testing.

 The accompanying helmet labels were submitted independently from the test samples and thus could not be checked for any characteristics except for the containing information.

 The average helmet weight reported calculated by manufactures complete helmed individual weights listed in the table above for sample through 5.6. 3. The average helmet weight reported calculated by manufactures complete helmet weight. The through 5.6.
- 4. The helmets were exposed to the high (50 ± 2 °C) and low (-20 ± 2 °C) temperatures for not less than 4 hours prior to testing and not exposed more than 6 hours.
- 5. Artificial ageing conducted in accordance to section 5.4.2.3: The outer surface of the protective helmet shall be exposed successively to: ultraviolet irradiation by a 125 W xenon-filled quartz lamp for 48 h at a range of 250 mm; spraying for 4 h to 6 h with water at ambient temperature at the rate of 1
 - 6. The sequence of tests performed on each helmet size and the tests performed on the same sample are given in the table below:

Table 2 — Sequence of Test and Tests per Sample

Performance Test	Sequence of Test	Sample Number		mber
Retention system effectiveness (5.6)	1st	1		
Shock absorbing capacity (5.4)	2nd	1	2	3
Retention system strength (5.5)	3rd	-	2	3

The fourth sample is reserved as a reference sample, which can be used by the test laboratory in case of doubt about any of the performance requirements.

Reviewed by: John Bogler

Contract File No.: 889.11339

Test File: 008

Control Document: Official ACT BS EN 1078 Report Template CN 1 July 2022 Rev.10 SharePoint/GlobalResourceLibrary/Reporting/ReportTemplates/Helmets/EN

Technician: Edward Wang or the full with Test Date: 03 August 2022 om ACT Lab



COMPLIANCE TESTING FOR BS EN 1078:2012+A1 HELMETS USED FOR PEDAL CYCLISTS AND FOR USERS OF SKATEBOARDS AND ROLLER SKATES

Brand : Troy Lee Designs
Model : FLOWLINE SE MIPS

Tested Size : M (57-59 cm)

Lot Number : TBD Country of Origin : China

Age Grading : 5 and older

Children's Product : No

Prepared For:

Troy Lee Designs

155 East Rincon Street, Corona, California



Issue Date: 16 March 2022

Final Report: 889.09943.006

Tested by:

Taicang ACT Sporting Goods Testing Co., Ltd.

No. 35 Zhenghe Road, Ludu Town, Taicang City, Suzhou, Jiangsu Province, China 215412 www.act-lab.com

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Contract File No.: 889.09943

Test File: 006

Control Document: Official ACT BS EN 1078 Report Template CN 18 January 2022 Rev.7 SharePoint/GlobalResourceLibrary/Reporting/ReportTemplates/Helmets/EN

Technician: Edward Wang Test Date: 16 February 2022



HELMET DATA

Brand:	Troy Lee Designs	Retention System:	Fidlock
Model:	FLOWLINE SE MIPS	Age Grading:	5 and older
Manufacturer:	VENDOR	Test Headform Size:	EN 960 Size 575 (J)
Date of Manufacture:	TBD	Helmet Positioning Index (HPI):	ACT Determined: 45 mm *Measured from the basic plane
Tested Size:	57-59 cm	EPS Bead Color:	Black and Grey

Helmet Number:	Weight (g):
1	324
2	322
3	314
4	325
Average:	321

Conditioned Temperatures			
Lab Humidity:	57%		
Ambient Lab Temp.:	22°C		
High Temperature:	50°C		
Low Temperature:	-20°C		
Artificial Aging:	33°C		

Comments:

- 1. All helmets were received in undamaged condition and were appropriate for testing.
- 2. The helmets were exposed to the high $(50 \pm 2 \,^{\circ}\text{C})$ and low $(-20 \pm 2 \,^{\circ}\text{C})$ temperatures for not less than 4 hours prior to testing and not exposed more than 6 hours.
- 3. Artificial ageing conducted in accordance to section 5.4.2.3: The outer surface of the protective helmet shall be exposed successively to: ultraviolet irradiation by a 125 W xenon-filled quartz lamp for 48 h at a range of 250 mm; spraying for 4 h to 6 h with water at ambient temperature at the rate of 1 l/min
- 4. The sequence of tests performed on each helmet size and the tests performed on the same sample are given in the table below:

Table 2 — Sequence of Test and Tests per Sample

Performance Test	Sequence of Test	Sample Number		nber
Retention system effectiveness (5.6)	1st	1		
Shock absorbing capacity (5.4)	2nd	1	2	3
Retention system strength (5.5)	3rd		2	3

5. The fourth sample is reserved as a reference sample, which can be used by the test laboratory in case of doubt about any of the performance requirements.

John D. Bogle

Reviewed by: John Bogler

Contract File No.: 889.09943

Test File: 006

Control Document: Official ACT BS EN 1078 Report Template CN 18 January 2022 Rev.7 SharePoint/GlobalResourceLibrary/Reporting/ReportTemplates/Helmets/EN

Technician: Edward Wang Test Date: 16 February 2022



JUNIPLIANCE TESTING FOR BS EN 1078:2012+A1:2012 HELMETS USED FOR PEDAL CYCLISTS AND FOR USERS OF SKATEBOARDS AND ROLLER SKATES Brand FOR BS EN 1078:2012+A USED FOR PEDAL CYCLISTS AND FOR OF SKATEBOARDS AND ROLLER SKATES Brand Model Tested C: Written opprovdifton

: 5 and older : No **Country of Origin** Age Grading

Prepared For: Children's Product

Troy Lee Designs 155 East Rincon Street, Corona, California



Final Report: 889.11181.005

Tested by:

Taicang ACT Sporting Goods Testing Co., Ltd.

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Contract File No.: 889.11181

Test File: 005

Control Document: Official ACT BS EN 1078 Report Template CN 1 July 2022 Rev.10 SharePoint/GlobalResourceLibrary/Reporting/ReportTemplates/Helmets/EN

Technician: Edward Wang Cantin full with Test Date: 11 July 2022 om ACT LOB III

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HELMET DATA

Brand:	Troy Lee Designs	Retention System:	Fidlock		
Model:	FLOWLINE SE MIPS	Age Grading:	5 and older		
Manufacturer:	VENDOR	Test Headform Size:	EN 960 Size 535 (E)		
Date of Manufacture:	TBD	Helmet Positioning Index (HPI):	ACT Determined: 23 mm *Measured from the basic plane		
Tested Size:	53-56 cm	EPS Bead Color:	Black and Grey		

Helmet Number:	Weight (g):
1	314
2	317
3	316
4	315
Average:	310

Conditioned Temperatures				
Lab Humidity:	57%			
Ambient Lab Temp.:	22°C			
High Temperature	50°C			
Low Temperature:	-20°C			
Artificial Aging:	33°C			

Comments:

- All nelmets were received in undamaged condition and were appropriate for testing.

 The accompanying helmet labels were submitted independently from the test samples and thus could not be checked for any characteristics except for the containing information.

 The average helmet weight reported calculated by manufactures complete helmet individual weights listed in the table above for samples. It is the table above for samples. 3. The average helmet weight reported calculated by manufactures complete helmet weight. The through 5.6.
- 4. The helmets were exposed to the high (50 \pm 2 °C) and low (-20 \pm 2 °C) temperatures for not less than 4 hours prior to testing and not exposed more than 6 hours.
- 5. Artificial ageing conducted in accordance to section 5.4.2.3: The outer surface of the protective helmet shall be exposed successively to: ultraviolet irradiation by a 125 W xenon-filled quartz lamp for 48 h at a range of 250 mm; spraying for 4 h to 6 h with water at ambient temperature at the rate of 1
 - 6. The sequence of tests performed on each helmet size and the tests performed on the same sample are given in the table below:

Table 2 — Sequence of Test and Tests per Sample

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Performance Test	Sequence of Test	Sample Number		mber
Retention system effectiveness (5.6)	1st	1		
Shock absorbing capacity (5.4)	2nd	1	2	3
Retention system strength (5.5)	3rd		2	3

The fourth sample is reserved as a reference sample, which can be used by the test laboratory in case of doubt about any of the performance requirements.

Reviewed by: John Bogler

Contract File No.: 889.11181

Test File: 005

Control Document: Official ACT BS EN 1078 Report Template CN 1 July 2022 Rev.10 SharePoint/GlobalResourceLibrary/Reporting/ReportTemplates/Helmets/EN

Technician: Edward Wang or continful with ACTION IL Test Date: 11 July 2022