



Product Service

EU-Type Examination Certificate

No. P5A 105743 0001 Rev. 00

Holder of Certificate: **C3 Manufacturing LLC**

3809 Norwood Drive # 4
Littleton CO 80125
USA

Product:

PPE against fall from a height
Auto Belay Device in accordance with
EN 341-1A and EN 360

Model(s):

Perfect Descent 230D
Perfect Descent 230S
both in length 8,5 m (-28)/ 12,2 m(-40)/ 16,1 m (-53)

Tested according to:

DIN EN 341:2011
DIN EN 360:2002
RFU PPE-R/11.128:2019

The Certification Body of TÜV SÜD Product Service GmbH confirms that the listed product fulfils the basic requirements with Annex V (Module B) of Regulation (EU) 2016/425 on personal protective equipment according to Article 19 (PPE of category III). This certificate refers only to the submitted sample for testing and certification and on its technical documentation. See also notes overleaf. The validity of this certificate based on an ongoing surveillance in accordance with Module C2 or D of Regulation (EU) 2016/425 by a Notified Body.

Test report no.: 713167795

Valid until: 2025-05-25

Date, 2020-05-27

(Matthias Völz)

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Parameters:

Function principle:	-when climbing tension in the auto belay device descent webbing line is given by the rewind system via rewind spring; -when descending (or falling while climbing) auto belay device controls descent speed of a person by dissipating the potential energy in the centrifugal brake; Perfect Descent Model 230S has a redundant free-wheel hub on centrifugal brake for better retraction performance (a.e. required for speed climbing competitions); here on the lanyard drum there is no lanyard keeper;
Construction:	self-retracting automatic descender device with central axis, self-retractable descent lanyard, activated by 2 independent retraction springs, pinion gear transmission (53:10) to centrifugal brake with brake drum and 2 brake shoes; central housing (aluminium) with attachment holes/ handle; between it and side plate (stainless steel) reel for lanyard and retraction springs and drum gear is placed; centrifugal brake with pinion hub with backstop bearing in extra housing; inner lanyard with shackle (with locking fluid) for connecting outer lanyard; outer lanyard replaceable by opening aluminium nozzle and changing shackle;
Descent lanyard:	Inner lanyard: PA/ PES-webbing; 25,4 mm (1") wide, 1,5 mm thick; guaranteed break strength: 20 kN; length 43,5 cm; in device connected to drum and shackle; stitched with 6 stitching bars on 3 webbing layers, with loops on both ends; Outer lanyard: PA/ PES-webbing; 25,4 mm (1") wide, 1,5 mm thick; guaranteed break strength: 20 kN; in 3 different length 8,5 m/ 12,2 m/ 16,1 m; from shackle to outer lanyard connector; webbing line end outside device doubled and stitched, with end termination loop with 6 stitching bars with abrasion protection and integrated Trilock connector with swivel, 60 cm outside of device; webbing line end inside device doubled and stitched, with end termination loop with 6 stitching bars on 2 webbing layers, nozzle insert integrated; replaceable by client;
Webbing connector:	directional EN 362-A/T connector with automatic gate locking device (triple-lock) and swivel; stitched into end loop of webbing line; in steel or aluminium;
Device measures:	160 mm x 350 mm x 230 mm;
Working load:	min: 11,5 kg (25 lbs); max: 140 kg (310 lbs);
Min/max. permitted descending speed:	0.5-2 m/s;

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Max. tested descent height:	measured from nozzle to ground: Perfect Descent Model 230D-28: 8.5 m Perfect Descent Model 230D-40: 12.2 m Perfect Descent Model 230D-53: 16.1 m Perfect Descent Model 230S-28: 8.5 m Perfect Descent Model 230S-40: 12.2 m Perfect Descent Model 230S-53: 16.1 m
Min. tested descent height:	measured from nozzle to ground: Perfect Descent Model 230D-28: 4.25 m Perfect Descent Model 230D-40: 8.0 m Perfect Descent Model 230D-53: 10.5 m Perfect Descent Model 230S-28: 4.25 m Perfect Descent Model 230S-40: 8.0 m Perfect Descent Model 230S-53: 10.5 m
Min. temperature:	0°C
Weight:	-Perfect Descent 230D -28: in length 8,5 m/ steel connector: 13,12 kg -40: in length 12,2 m/ steel connector: 13,18 kg -53: in length 16,1 m/ steel connector: 13,28 kg -Perfect Descent 230S -28: in length 8,5 m/ aluminium connector: 13,20 kg -40: in length 12,2 m/ aluminium connector: 13,26 kg -53: in length 16,1 m/ aluminium connector: 13,36 kg;
Marking:	manufacturer address, model, CE-marking, "read instructions"-pictogram; serial no.; manufacturing date; in accordance with EN 341: 1A and EN 360, meets RFU PPE-R/11.128 V.1; EU-importer address; various safety pictograms, a.o.: temperature range, min/ max mounting height, min/ max user weight, min. descent rate: 0.5 m/s, max descent rate: 2.0 m/s; on lanyard: manufacturing date; manufacturer;

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Perfect Descent 230D



Perfect Descent 230S

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