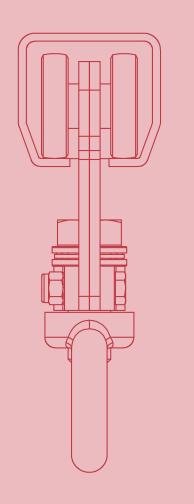


Fall Arrest Systems

Product Catalogue

Technical Information Component Specification

NIKO ... Quality in 1



www.niko.eu.com www.niko.co.uk www.nikotrack.com www.niko.world





Company Profile

Established in 1972, NIKO is focused on designing developing, producing and marketing high quality sliding door fittings and overhead conveyor systems at the right price. NIKO currently has a direct presence at seven locations (Greece, Germany, Austria, United Kingdom, Poland, China and U.S.A.), and indirectly through representatives and agents in most European countries, North Africa, Asia and Australia.

Our product range includes more than 2.000 different assemblies & components. Our team of highly qualified engineers are continually working to improve our current product portofolio & extend it according to market requirements.

NIKO enforces a continuous quality control program and is certified according to ISO:9001 and ISO:14001.











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Trolleys	Page	19
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Application Photos















NIKO fall arrest system - The economic solution tailored to your requirements, while safety is assured

NIKO FALL ARREST SYSTEM is a horizontal rigid track system which consists of a mobile anchorage device, allowing for a person or persons to move freely with safety in a monorail or in crane system without the need to disconnect from the system.

The small number of components required, ensure the easy installation of the system which should always be installed horizontally.

The fall arrest system NIKO PSS 25-26-27 is to be used exclusively for the safety of hanging persons. The system does not replace personal safety harnesses (PPE - personal protective equipment).

NIKO FALL ARREST SYSTEMS, consist of :

- ✓ Rigid track profiles.
- ✓ Splice joints that connect the track profiles.
- ✓ Support brackets, for wall or ceiling mounting as well as mounting to a steel structure.
- Trolleys and carriage trolleys, fitted with 4 wheels.
- ✓ Track ens stops which prevent the trolley exit from the track profiles.

The components of NIKO FALL ARREST SYSTEMS comply with EN 795:2012 & CEN/TS 16415: 2013-D.

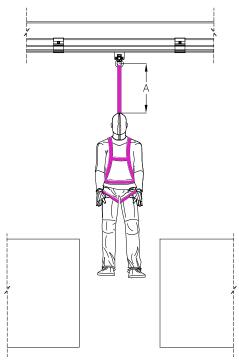
Applications

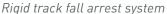
- Aircraft service and maintenance
- Safety track for high ropes course
- Coach service and maintenance
- Sky glide track for soft play areas
- Train service and maintenance

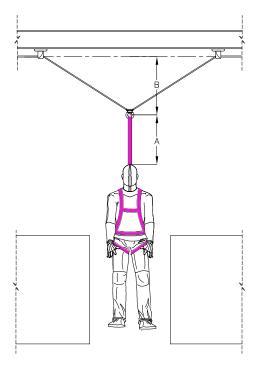


Advantages of Niko Fall Arrest Track vs Taut Wire **Systems**

- ✓ There is less distance to fall with NIKO FALL ARREST SYSTEM and therefore less impact on the body.
- ✓ No bouncing effect that can cause injury on secondary
- ✓ Multiple person systems are safer with NIKO FALL ARREST SYSTEM. One person falling on a taut wire fall arrest system can cause other users to fall.
- ✓ Following a fall the NIKO FALL ARREST SYSTEM can be re-used immediately after passing a visual inspection. Taut wire fall arrest systems need to be completely replaced.
- ✓ The tapered edge design of the NIKO FALL ARREST SYSTEM achieves very free running movement and eliminates snag effect.
- ✓ Its modular design means that the NIKO FALL ARREST SYSTEMS can be easily moved, added to and changed after
- ✓ NIKO FALL ARREST SYSTEM offers solutions that enable operators to pass each other without detaching themselves from the system.
- ✓ No length limits to the distance of NIKO FALL ARREST SYSTEMS.







Wire rope system

A = DISTANCE REQUIRES TO ARREST B = WIRE ROPE SYSTEM DEFLECTION

Ver. July 2017

В



Mounting Points

For an effective installation of a NIKO FALL ARREST SYSTEM it is necessary to specify distance between the support brackets.

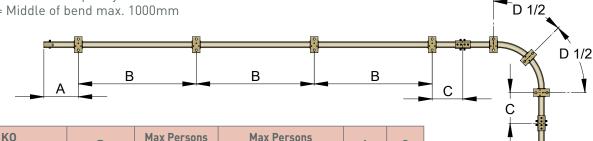
The permitted number of users in the system determines the maximum allowable distance between the support points of the track.

- a.) Determination of the maximum number of persons
- b.) Evaluation of the structural analysis of the supporting structure for the worst case scenario. In this case, all persons that are operating in the system cause at the same time a fall.
- c.) For the first person there must be calculated 12kn dynamic load effecting the system, for each additional person + 1kn.
- d.) For the maximum number of persons important is also an analysis of the rescue options.

Example of line

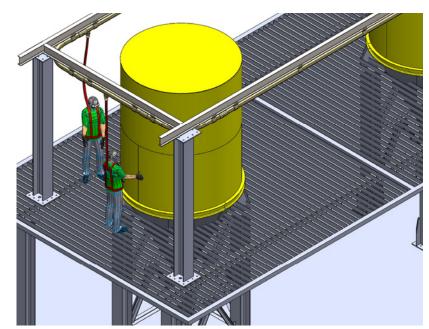
- A = Overhanging end max. according to chart
- B = Suspension distance max. according to chart
- C = Distance to splice joint max. 500mm





NIKO Profile No.	В	Max Persons per / meter	Max Persons per /system	Α	С
25.000	≤ 1100	3	According to analysis	300	500
25.000	≤ 1800	-	According to analysis	400	500
26.000	≤ 1800	3	According to analysis	500	500
27.000	≤ 2800	3	According to analysis	400	500

Free standing track bend fall arrest system - Example





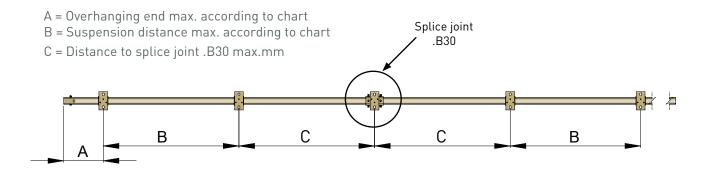
Example of line with splice joint .B30

The suspension points are indicated on the below depicted line.

The given measurements are maximum distances.

For the connection of two tracks a splice joint .B30 is used.

The distance between the splice joint and the nearest suspension point must not exceed the distance C.



	Suspensions/ max distances			
NIKO Profile No.	В	Α	С	
25.000	1800	300	600	
26.000	1800	400	800	
27.000	2800	500	1200	

Monorail freestanding fall arrest system - Example

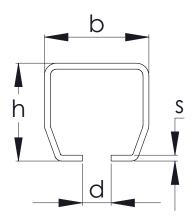


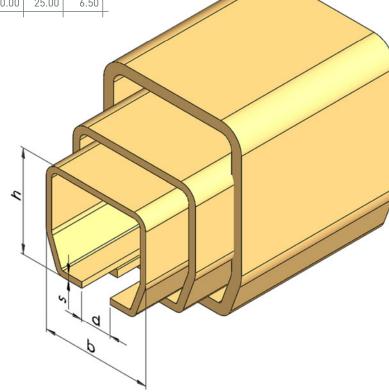


NIKO Track Profiles

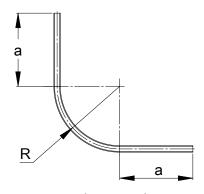
Our fall arrest product range of 3 Track profile sizes can accommodate up to 3 users. For the first person there must be calculated 12kn dynamic load effecting the system, for each additional person + 1kn. The NIKO enclosed track tapered design allows correct alignment of the trolleys and reduces the possibility of dust build up. This ensures the smooth running of the trolleys and the long life of the system.

-			Dimer	nsions	
	NIKO Profile No.	h (mm)	b (mm)	d (mm)	s (mm)
	25.000	60.00	65.00	18.00	3.60
	26.000	75.00	80.00	22.00	4.50
	27.000	110.00	90.00	25.00	6.50





Track bend



NIKO Profile No.	25.000	26.000	27.000
Track bend 90° No.	25.C06P	26.C08P	27.C10P
a (mm)	550±20	900±20	690±20
R (mm)	580±15	770±20	1035±20
L (mm)	2000	3000	3000



_ Other bend angles available upon request.



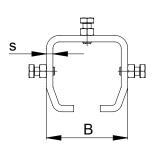


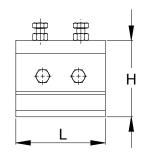
Support bracket

.BOOP

Zinc plated or plain, that can be used and adapted for specific applications where standard supports are unsuitable. CEN/TS16415:2013-D





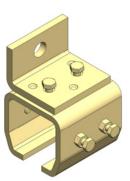


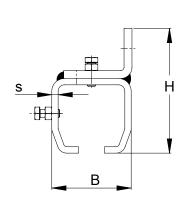
NIKO Profile No.	25.000	26.000	27.000
Part No.	25.B00P	26.B00P	27.B00P
L (mm)	90	110	120
H (mm)	75	94	133
B (mm)	81	100	116
s (mm)	6	8	10

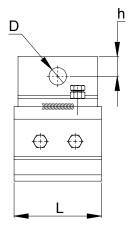
Wall support bracket

.B01P

This kind of support is used for mounting the track directly on a wall or on other constructions with mounting bolts. CEN/TS16415:2013-D







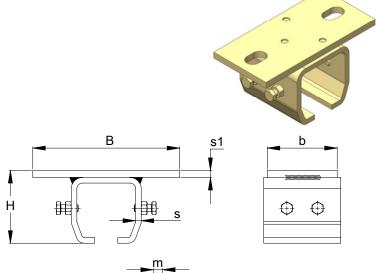
NIKO Profile No.	25.000	26.000	27.000
Part No.	25.B01P	26.B01P	27.B01P
L (mm)	90	110	120
H (mm)	123	156	205
B (mm)	81	100	116
s (mm)	6	8	10
D (mm)	17	22	26
h (mm)	18	24	27



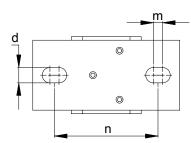
Ceiling support bracket

.B02P

This bracket is designed for bolting direct to overhead steelwork or ceiling. CEN/TS16415:2013-D



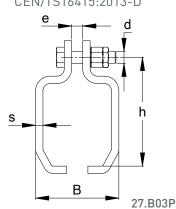
NIKO Profile No.	25.000	26.000	27.000
Part No.	25.B02P	26.B02P	27.B02P
B (mm)	171	210	260
H (mm)	81	104	145
b (mm)	80	100	120
s (mm)	6	8	10
d (mm)	17	22	22
n (mm)	124	148	178,5
m (mm)	10	12	23.5

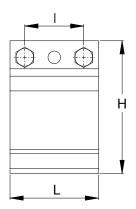


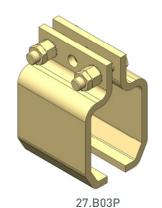
Split support bracket (CEN/TS16415 Cert.)

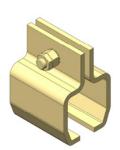
.B03P

.B03 is generally used for variable height configurations. CEN/TS16415:2013-D



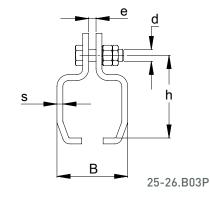


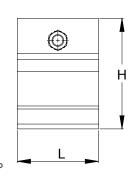




25-26.B03P

NIKO Profile No.	25.000	26.000	27.000
Part No.	25.B03P	26.B03P	27.B03P
B (mm)	77	96	110
H (mm)	131	150	180
h (mm)	94	112	148
L (mm)	90	110	120
s (mm)	6	8	10
d (mm)	M16	M16	M16
e (mm)	10	10	15
l (mm)	-	-	80



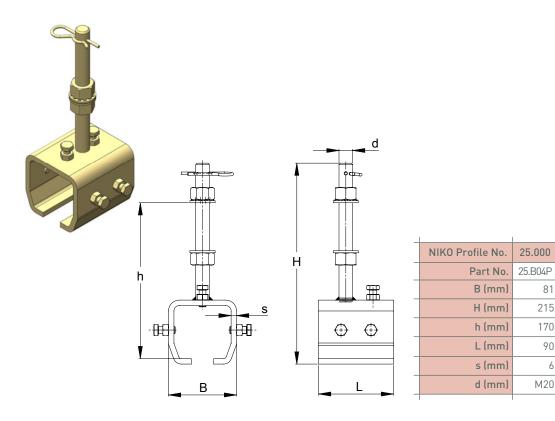






Adjustable bracket with safety device

.B04 allows the height adjustment of the rails and to correct any misalignments. CEN/TS16415:2013-D



Split suspension bracket

.B10P/.B26P

26.000

26.B04P

81

215

170

90

6

100

295

250

110

M20

8

27.000

27.B04P

116

348

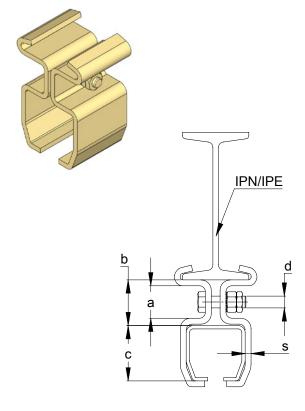
295

120

10

M30

This bracket is used for mounting directly to the underside flange of a parallel I-beam. CEN/TS16415:2013-D



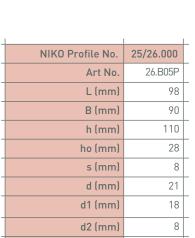
NIKO Profile No.	25.000	26.000	27.000
Dimension a in mm.	42	45	69
Dimension b in mm.	54	61	89
Dimension c in mm.	60	75	110
Dimension d in mm.	17 Ф	17 Ф	17 Ф
s (mm)	6	8	10
Material	90x6	110x8	120x10
Split Suspension Bracke	t Joist IPN D	IN 1025	
for IPN 100X50	25.B10P		
for IPN 120X58	25.B12P		
for IPN 140X66	25.B14P		
for IPN 160X74	25.B16P	26.B16P	
for IPN 180X82	25.B18P	26.B18P	
for IPN 200X90	25.B20P	26.B20P	27.B20P
for IPN 200X98	25.B22P	26.B22P	27.B22P
for IPN 240X106	25.B24P	26.B24P	27.B24P
for IPN 260X113	25.B26P	26.B26P	27.B26P



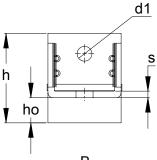
Adjustable wall bracket

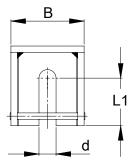
.B05P

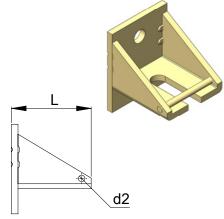
.B05 is used in combination with the .B04 adjustable bracket and it usually mounts on the wall. CEN/TS16415:2013-D



L1 (mm)





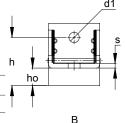


Double adjustable wall bracket with safety device

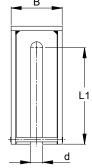
58

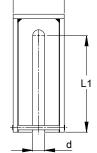
.B06P

Double zinc plated steel wall bracket for twin tracks, for use with bracket .B04 CEN/TS16415:2013-D



	NIKO Profile No.	25.000 / 26.000	27.000
	Part No.	26.B06P	27.B06P
	L (mm)	208	208
	B (mm)	90	90
	h (mm)	84	80
	ho (mm)	28	28
	s (mm)	8	8
	d (mm)	21	32
	d1 (mm)	18	22
	d2 (mm)	8	8
	L1 (mm)	172	168
_			





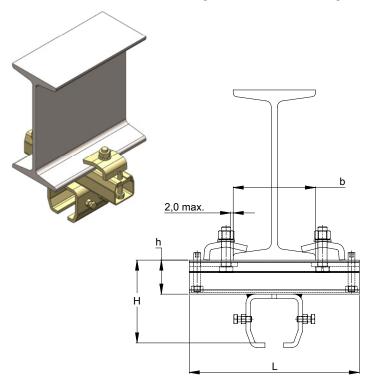


Double joist clamp

.B35P

(Parallel to the I-Beam)

This bracket is used for mounting to the underside flange of a parallel I-beam. CEN/TS16415:2013-D

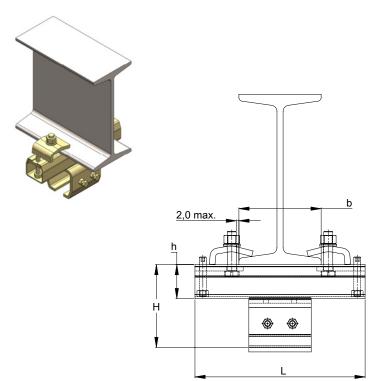


1			
NIKO Profile No.	25.000	26.000	27.000
Part No.	25.B35P	26.B35P	27.B35P
L (mm)	300	300	330
H (mm)	129	146	199
h (mm)	60	60	75
b max (mm)	175	175	205

Adjustable joist clamp (90° to the I-Beam)

.B36P

This bracket is used for mounting to the underside flange of a vertical I-beam. CEN/TS16415:2013-D



\perp				
	NIKO Profile No.	25.000	26.000	27.000
	Part No.	25.B36P	26.B36P	27.B36P
	L (mm)	300	300	330
	H (mm)	129	146	199
T	h (mm)	60	60	75
1	b max (mm)	175	175	205



Adjustable joist clamp with splice joist .B71P (Parallel to I-Beam)

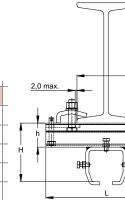
This bracket is used to support and connect track profiles to the underside flange of a parallel I-beam.

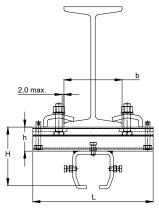


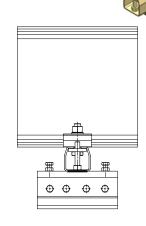
NIKO Profile No.

Part No. L (mm)

H (mm)







h (mm) 75 60 60 b max (mm) 175 175 205

129

25.000

26.000

300

146

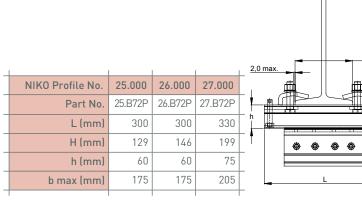
27.000

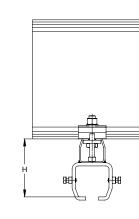
330

199

Adjustable joist clamp with splice joist .B72P (90° to the I-Beam)

This bracket is used to support and connect track profiles to the underside flange of a vertical I-beam. CEN/TS16415:2013-D







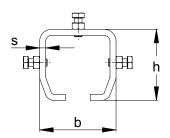


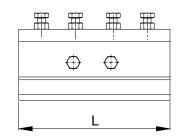
Splice joint for tracks

R49P

The track sections are joined using the track joint by tightening the top screws first then aligning the profiles by means of the side screws. CEN/TS16415:2013-D





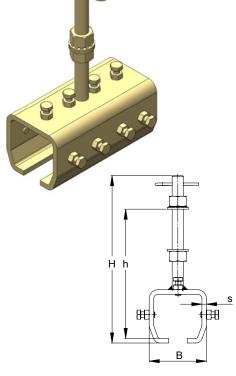


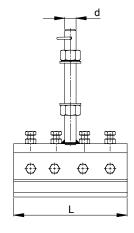
1			l
NIKO Profile No.	25.000	26.000	27.000
Part No.	25.B49P	26.B49P	27.B49P
L (mm)	180	200	250
h (mm)	75	94	133
b (mm)	81	100	116
s (mm)	6	8	10

Height adjustable support joint

.B11P

.B11 is a combination of a height adjustable bracket and a splice joint for mounting on adjustable wall brackets. CEN/TS16415:2013-D





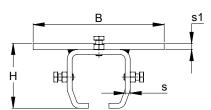
NIKO Profile No.	25.000	26.000	27.000
Art No.	25.B11P	26.B11P	27.B11P
B (mm)	81	100	116
H (mm)	215	295	348
h (mm)	170	250	295
L (mm)	180	200	250
s (mm)	6	8	10
d (mm)	M20	M20	M30

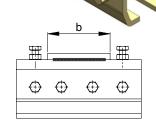


Ceiling support joint

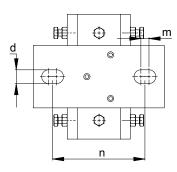
.B30P

Zinc plated splice joint, for mounting direct to ceiling. Combination of a ceiling support and a splice joint. CEN/TS16415:2013-D





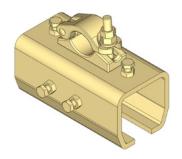
NIKO Profile No.	25.000	26.000	27.000
Art No.	25.B30P	26.B30P	27.B30P
B (mm)	171	210	260
H (mm)	81	104	145
b (mm)	80	100	120
s (mm)	6	8	10
d (mm)	17	22	22
n (mm)	124	148	178,5
m (mm)	10	12	23,5



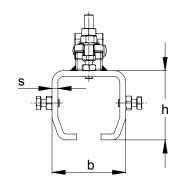
Scaffolding splice joint

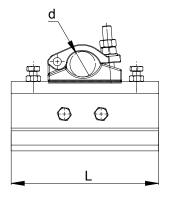
.B80P

This clamp is suitable for connecting and supporting the track profiles to existing scaffolding structure. CEN/TS16415:2013-D



NIKO Profile No.	25.000	26.000	27.000
Adjustable joist			
No.	25.B80P	26.B80P	27.B80P
L (mm)	180	200	250
h (mm)	75	94	133
b (mm)	81	100	116
s (mm)	6	8	10
d MIN (mm)	40	40	40
d MAX (mm)	48,3	48,3	48,3





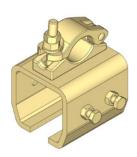


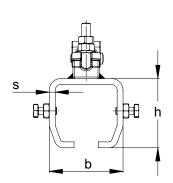


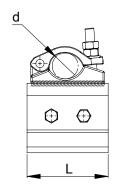
Scaffolding support bracket

.B81P

This clamp is suitable for supporting the track profiles to existing scaffolding structure. CEN/TS16415:2013-D





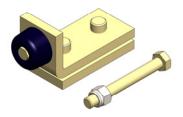


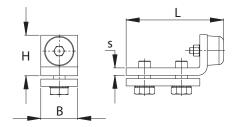
05.000	01.000	05.000
25.000	26.000	27.000
25.B81P	26.B81P	27.B81P
90	110	120
75	94	133
81	100	116
6	8	10
40	40	40
48,3	48,3	48,3
	90 75 81 6 40	25.B81P 26.B81P 90 110 75 94 81 100 6 8 40 40

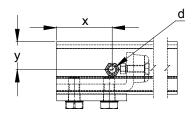
Track end stop

.X01P

At the end of the open profiles, an end stop with a rubber buffer must be positioned. Used in conjuction with a fixed cross belt. CEN/TS16415:2013-D







NIKO Profile No.	25.000	26.000	27.000
Part No.	25.X01P	26.X01P	27.X01P
L (mm)	120	130	130
H (mm)	47	60	60
B (mm)	40	50	50
s (mm)	8	10	10
x (mm)	85	85	85
y (mm)	30	30	60
d (screw dimensions in mm)	M8X80	M12X100	M16X120
Hole diameter for screw (mm)	8.5	13	17
i e			



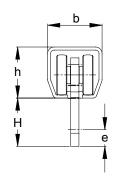
4-Wheel trolley with hole

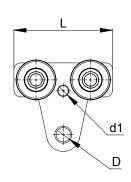
.T10P

This trolley is ideal for non standard self built applications. EN 795:2012-D CERT



NIKO Profile No.	25.000	26.000	27.000
Part No.	25.T10P	26.T10P	27.T10P
L (mm)	120	145	210
H (mm)	62	70	180
h (mm)	60	75	110
b (mm)	65	80	90
D (mm)	18	22	26
e (mm)	20	24	35
d1 (mm)	12	17	20



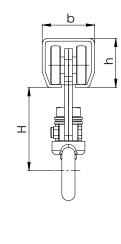


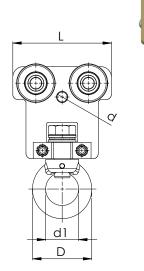
4-Wheel trolley with a rotating eye nut DIN 582

.T40P

4-wheel trolleys are suitable for hanging safety belts for fall arrest. EN 795:2012-D CERT

		ı	ı
NIKO Profile No.	25.000	26.000	27.000
Part No.	25.T40P	26.T40P	27.T40P
L (mm)	110	150	200
H (mm)	93	123	163
h (mm)	60	75	110
b (mm)	65	80	90
D (mm)	72	90	108
d (mm)	40	50	60
d1 (mm)	12	17	20







NOTES	





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Zertifikat - Certificate

Nr.: TÜV-A-MHF/FT-14/FT04-026



Hersteller: Manufacturer: Helm Hellas S.A. P.O.Box 209 **GR-20100 Korinthos**

Bevollmächtigter: NIKO Vertriebs GmbH Authorized deputy: Hainfelderstraße 3 A-2564 Weissenbach

Produkt:

Persönliche Absturzschutzausrüstung – Anschlageinrichtungen (EN 795 Klasse D)

Personal fall protection equipment – Anchor devices (EN 795 Class D)

Product:

NIKO PSS 25-26-27, Komponenten – siehe Anhang

Тур: Type: NIKO PSS 25-26-27, components - see annex

Anschlagsystem zur Wand- oder Deckenbefestigung mit Schienenbogen und Weiche Anchor device to be fastened an wall or ceiling with rail bend and double swivel switch

Beschreibungen: Description:

ÖNORM EN 795:2012 (ident EN 795:2012)

Prüfgrundlagen:

ONR CEN/TS 16415:2013 (ident CEN/TS 16415:2013)

Tested according to:

ÖNORM EN 365:2004 (ident EN 365:2004)

Bemerkungen:

Siehe Anhang

Remarks:

ZERTIFIKAT | CERTIFICATE | CERTIFICAT | CERTIFICADO | CEPTИΦИКАТ | ふしん | 近书 |

See annex

Hiermit bestätigt die TÜV AUSTRIA SERVICES GMBH als benannte Stelle (ID-Nr. 0408), dass das oben angeführte Produkt den grundlegenden Sicherheits-Anforderungen der Richtlinie entspricht. Grundlage dieses Zertifikates ist das zur Prüfung und Zertifizierung vorgelegte Prüfmuster und die technische

Hereby TÜV AUSTRIA SERVICES GMBH certifies as notified body (ID No. 0408) that the above mentioned product meets the essential safety requirements of the Directive. The certificate is based on the test specimen and the technical documentation subjected to the test and the certification.

TÜV-A-MHF/FÖT-1/04/FT04-026V2

Vorgängerdokumente / former documents

17.02.2011

Datum / date

10.11.2014

Datum

date

Ing. Karl Lueger Prüfstelle

examining department

Dipl.-Ing. R. Schleifenlehner Zertifizierungsstelle certifying department

31.10.2019 Gültig bis valid till

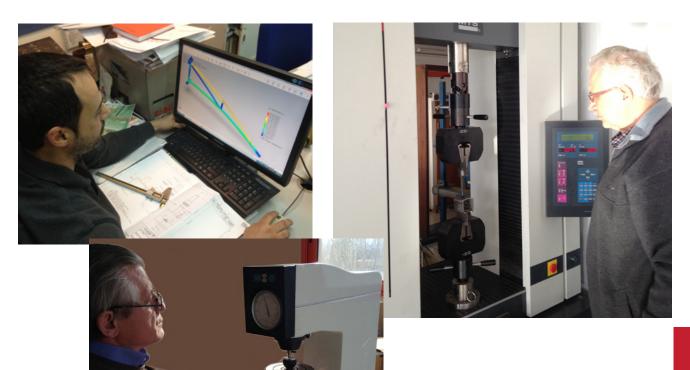
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Seite 1 von 1 FT14-079_Zertifikat docx

FB Fördertechnik Tel.: +43 / 1 / 61091-6659 Fax: +43 / 1 / 61091-6650 e-mail: foet@tuv.at

Our quality control department is manned by experienced and highly skilled engineers. Our test lab is equipped with endurance test stands, tensile stress equipment, hardness test machines and other laboratory equipment. Virtual stress analysis is also performed during the developing phase of every component.















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AUSTRIA-NIKO Vertriebs GmbH

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