PATROL

HORIZONTAL LIFELINE

MODULAR, SIMPLE, SAFE SYSTEM.

With our PATROL LIFELINE system, horizontal, overhead or façade lifelines, both through and overhead, are child's play. Thanks to dedicated supports, the system can be quickly installed on timber, metal or concrete substrates. Furthermore, a wide range of specific accessories ensures all your design needs can be easily met.

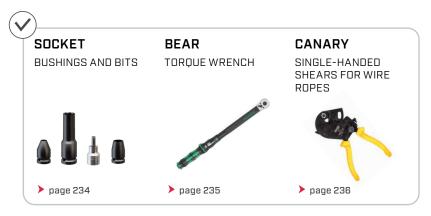


■ SLIDING DEVICE

	SLIDE1	SLIDE1 A4	SLIDE2	SLIDE2 A4	OHSLIDE	OHSLIDE A4
	•					
material	A2 AISI 304	A4 AISI 316	A2 AISI 304	A4 AISI 316	A2 AISI 304	A4 AISI 316
certification	EN UNI 11578:2015 C	EN 11578:2015 C C	EN 11578:2015 C C	EN 795:2012 UNI 11578:2015 C	EN 795:2012 C UNI 11578:2015 C	EN 795:2012 C UNI 11578:2015 C
removable	~	~			~	V
overhead					~	~
on wall	~	~	~	~		
through	~	~	~	~	~	~

■ BENEFITS OF ASSEMBLY TOOLS

The design is simple and the components are easy to assemble. All parts can be installed using common, low-cost tools. There are no crimped fastenings, so no expensive crimping machines or crimp control tools are required.





KEY POINTS

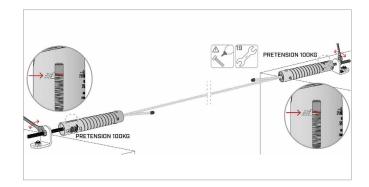
EASE OF ASSEMBLY

All PATROL components can be easily installed in just a few steps thanks to the convenient manual, available in 24 languages, and the assembly video available on our website.



CABLE TENSIONING

The double end element, which functions as both an absorber and a tensioner, facilitates cable assembly and well-distributed tensioning, even on long lines with multiple curves.



ENERGY ABSORPTION

Thanks to the SPEAREVO absorber-tensioner, it is possible to obtain maximum spans of up to 15 metres between supports, reducing stress on the end elements and, consequently, on the fastenings to the substructure.



EXPANSION CONTROL

The SPEAR and SPEAREVO end elements, featuring springs on both ends, ensure the system is able to compensate for cable expansion caused by fluctuating temperatures between summer and winter, protecting the supports from potential damage.



SYSTEM INSPECTION

All components of the PATROL system are visible. In just a few steps, the system can easily be serviced every 12 months after the initial installation.

Cable inspection and re-tensioning operations are just as simple to perform.



I PATROL + TOWER

LIFELINE ON SUPPORT FOR TIMBER, CONCRETE AND STEEL ROOFS

ADAPTABLE

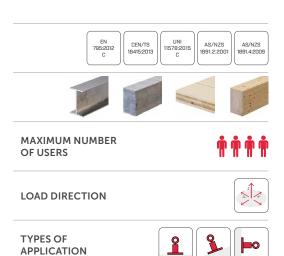
Support height between 300 and 800 mm to adapt to different roofing thicknesses.

MINIMALIST DESIGN

Small-sized cylindrical support to minimise the visual impact on the roof.

EFFECTIVE

Controlled deformation device to reduce the load on the fastening systems and structure.

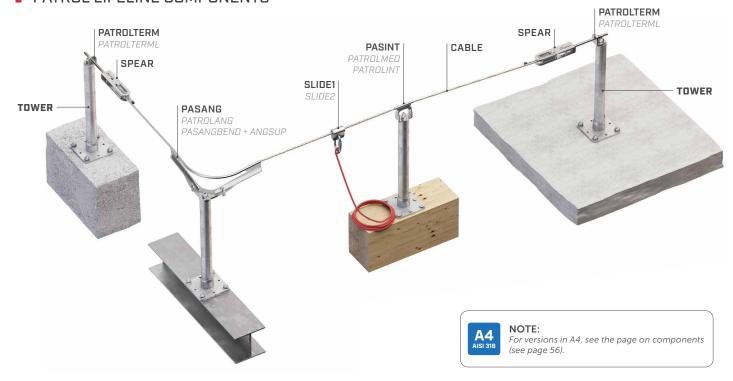








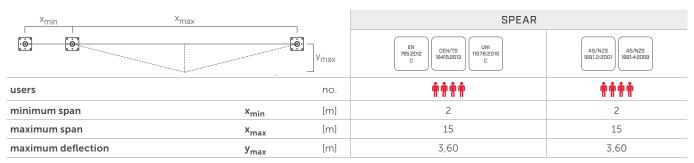
PATROL LIFELINE COMPONENTS



■ TECHNICAL DATA*

substructure	minimum thickness	fasteners				
GL24h	160 mm	VGS (EVO) Ø9 ULS Ø10 ©				
CLT	200 mm	VGS (EVO) Ø9 ULS Ø10 ❤				
S235JR	6 mm	DIN 933 M12 DIN 125-1A M12 MUT AI 985 M12				

substructure	minimum thickness	fasteners				
		AB1 M12				
		SKR Ø12	1 mananana			
C20/25	140 mm	INA 5.8 M12 VIN-FIX				
		HYB-FIX				



^{*} The values indicated are the result of experimental tests carried out under the supervision of third parties in accordance with the standard referred to. For a correct calculation report with minimum distances according to the standard requirements, the substructure must be checked by a qualified engineer before installation.

■ TOWER | CODES AND DIMENSIONS

CODE	material		d	l ₁	В			Н	L		pcs	
			[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]		
TOWER300			48	1.89	150	6	300	11 3/4	150	6	1	d ₁ d ₁
TOWER400			48	1.89	150	6	400	15 3/4	150	6	1	
TOWER500			48	1.89	150	6	500	19 3/4	150	6	1	
TOWER600	S235JR zinc plated steel	S235	48	1.89	150	6	600	23 5/8	150	6	1	н
TOWER700			48	1.89	150	6	700	27 1/2	150	6	1	
TOWER800	_	48	1.89	150	6	800	31 1/2	150	6	1		
TOWER22500		48	1.89	150	6	500	19 3/4	150	6	1	r ~ B r ~ 2	

For related TOWERPEAK, TOWERSLOPE, TOWLATEVO and TOPLATE products, see page 250.

PATROL + TOWER A2

LIFELINE ON STAINLESS STEEL SUPPORT FOR TIMBER, CONCRETE AND STEEL ROOFS

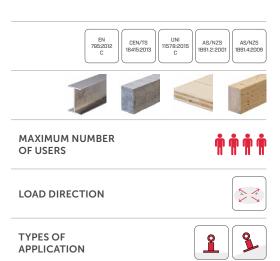
DURABLE

A2 stainless steel support that guarantees excellent resistance and durability in corrosive environments.

MINIMALIST DESIGN

Product that meets high aesthetic and functional requirements.

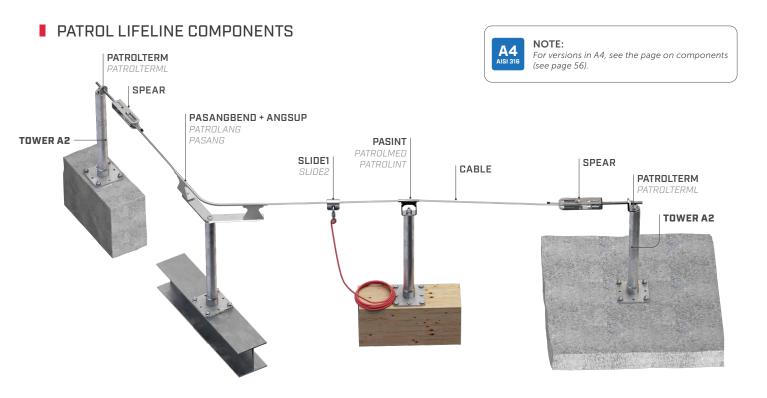
Controlled deformation device to reduce the load on the fastening systems and structure.







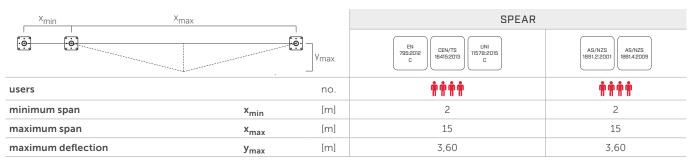




■ TECHNICAL DATA*

substructure	minimum thickness	fasteners
GL24h	160 mm	VGS (EVO) Ø9 ULS Ø10
CLT	200 mm	VGS (EVO) Ø9 ULS Ø10
S235JR	6 mm	DIN 933 M12 DIN 125-1A M12 MUT AI 985 M12

substructure	minimum thickness	fasteners				
		AB1 M12				
		SKR Ø12	1000000000			
C20/25	140 mm	INA 5.8 M12 VIN-FIX				
		HYB-FIX				



^{*} The values indicated are the result of experimental tests carried out under the supervision of third parties in accordance with the standard referred to. For a correct calculation report with minimum distances according to the standard requirements, the substructure must be checked by a qualified engineer before installation.

■ TOWER A2 | CODES AND DIMENSIONS

CODE	material		d₁ [mm] <i>[in]</i>	B [mm] <i>[in]</i>	H [mm] [in]	L [mm] <i>[in]</i>	pcs	
TOWERA2300			48 1.89	150 6	300 11 3/4	150 6	1	d₁
TOWERA2400	AISI 304 stainless steel grade 1.4301	A2 AISI 304	48 1.89	150 6	400 15 3/4	150 6	1	н
TOWERA2500			48 1.89	150 6	500 19 3/4	150 6	1	

For related TOWERPEAK, TOWERSLOPE, TOWLATEVO and TOPLATE products, see page 250.

PATROL + TOWER XL

LIFELINE ON SUPPORT WITH INCREASED BOTTOM PLATE FOR TIMBER, STEEL AND CONCRETE ROOFS

VERSATILE

Compatible with different types of structures thanks to tested fastenings.

Adjustable support height between 300 and 800 mm to adapt to different roofing thicknesses.

SAFE

The increased bottom plate distributes the actions arising from the anchoring devices over a larger area.



LOAD DIRECTION











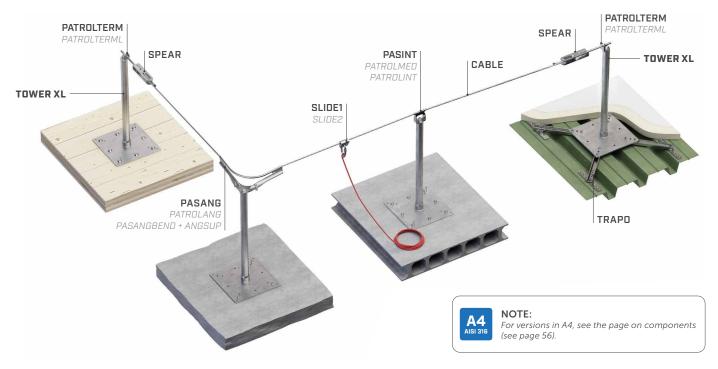






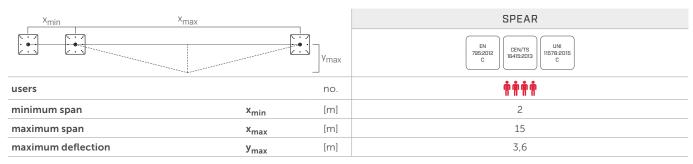


PATROL LIFELINE COMPONENTS



■ TECHNICAL DATA*

	minimum			minimum	
substructure	thickness	fasteners	substructure	thickness	fasteners
CLT	100 mm	VGS (EVO) Ø11 ▶ HUS Ø10 ❤	<u>OOO</u> C45/55	30 mm	BEF TOWERXL1 Ø10
		AB7 M10			
C20/25	110 mm	SKR Ø10 # www.			
C20/23		INA 5.8 M10 VIN - FIX		0,75 mm	TRAPO SET



^{*} The values indicated are the result of experimental tests carried out under the supervision of third parties in accordance with the standard referred to. For a correct calculation report with minimum distances according to the standard requirements, the substructure must be checked by a qualified engineer before installation.

■ TOWER XL | CODES AND DIMENSIONS

CODE	material		d	l ₁		В		Н		L	pcs	
			[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]		
TOWERXL300			48	1.89	350	13 3/4	300	11 3/4	350	13 3/4	1	d ₁
TOWERXL400	_		48	1.89	350	13 3/4	400	15 3/4	350	13 3/4	1	u ₁
TOWERXL500	_		48	1.89	350	13 3/4	500	19 3/4	350	13 3/4	1	
TOWERXL600	S235JR zinc plated steel	S235	48	1.89	350	13 3/4	600	23 5/8	350	13 3/4	1	н
TOWERXL700	plated steet	48	1.89	350	13 3/4	700	27 1/2	350	13 3/4	1		
TOWERXL800		48	1.89	350	13 3/4	800	31 1/2	350	13 3/4	1		
TOWERXL1000		48	1.89	350	13 3/4	1000	39 3/8	350	13 3/4	1	L B	

For related BEFTOWERXL, TRAPPO, MANEPDM, MANLEAD, MAN50, MANPOST1, MANPOST2, TOPLATE 2.0 products, see page 250.

I PATROL + SOLID

LIFELINE ON RIGID SUPPORT FOR ROPE ACCESS WORK

DESIGNED FOR ROPE ACCESS WORK

The high-rigidity and high-strength support, combined with the jawplate anchor system, enables comfortable and safe rope access work.

LIGHT

The aluminium alloy of the support facilitates handling and installation thanks to the lightweight components.

ADAPTABLE

Support height between 400 and 1000 mm to adapt to different roofing thicknesses.



The system has been developed and tested in accordance ANSI Z359.18 -2017 A with the static, dynamic and residual strength requirements outlined in the relative ANSI standard.



MAXIMUM NUMBER **OF USERS**



LOAD DIRECTION



















■ PATROL LIFELINE COMPONENTS **SPEAREVO** PASINT PATROLEND PATROLMED SOLIDRIG -CABLE SPEAREVO PATROLINT SLIDE1 SOLID SOLID PASANGBEND + ANGSUP PASANG PATROLANG SOLIDPLATEHC SOLIDPLATEHD SOLIDPLATE

■ TECHNICAL DATA**

substructure	minimum thickness	fasteners				
CLT	160 mm	VGS (EVO) Ø13 ▶ HUS12				
O.O.O C20/25	-	INA Ø16 8.8				
	15 mm	bolt or 🕞				

substructure	minimum thickness	fasteners			
		AB1 Ø12			
C20/25		SKR (EVO) Ø12 (
	140 mm	INA Ø12 8.8 www.www.www.www.www.www.www.www.www			

x _{min} x _{max}	SPEAREV	0	SOLIDRI	G
₽ y _{max}	EN CEN/TS 18415:2013 UNI 11578:2015 C	AS/NZS 1891.4:2009 AS/NZS 1891.2:2001	BS 9610:2017 A3/A5 AS/NZS 5532:2013	ANSI* Z359.18 - 2017 A
users no.	'n'n'n	ňňňň	ŤŤ	†
work method	fall protection/re	estraint	suspensio	on
minimum span x _{min} [m]	2		-	-
maximum span x _{max} [m]	15		-	-
maximum deflection y _{max} [m]	3,35		-	-

^{**}The values indicated are the result of experimental tests carried out under the supervision of third parties in accordance with the standard referred to. For a correct calculation report with minimum distances according to the standard requirements, the substructure must be checked by a qualified engineer before installation.

■ SOLID | CODES AND DIMENSIONS

CODE	description	material		d₁ [mm] <i>[in]</i>	B [mm] <i>[in]</i>	L [mm] <i>[in]</i>	H [mm] <i>[in]</i>	pcs	
SOLID400						-	400 15 3/4	1	d ₁
SOLID600	rigid support for rope access work	EN AW-6082-T6	alu -6082-T6	120 4.73	220,5 8 11/16	-	600 23 5/8	1	
SOLID800		EN AW-6082-16	6062	120 4.73	220,5 8 11/16	-	800 <i>31 1/2</i>	1	H
SOLID1000	_			120 <i>4.73</i>	220,5 8 11/16	-	1000 <i>39 3/8</i>	1	B
SOLIDRIG	jaw system for rope access work	EN AW-6082-T6	EN AW-6082-T6	300 11.82	-	-	-	1	d ₁
SOLIDPLATE	bottom plate for timber and concrete	EN AW-6082-T6	alu 6082	-	550 21 5/8	595 23 7/16	-	1	B
SOLIDPLATEHD	bottom plate for timber and concrete for heavy-duty applications	EN AW-6082-T6	6082		650 25 9/16	695 <i>27 3/8</i>	-	1	B
SOLIDPLATEHC	bottom plate and counterplate for aerated concrete	EN AW-6082-T6		-	650 25 9/16	545 21 7/16	-	1	B

| PATROL + T-CLAMP

LIFELINE ON SUPPORT FOR CONTINUOUS ROOFS

VERSATILE

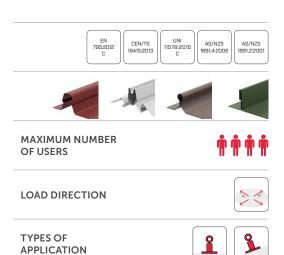
A versatile system with special clamps allowing installation on various types of metal roofs.

ADAPTABLE

The universal plates, available in various sizes, guarantee a solution for the different spans between the seams.

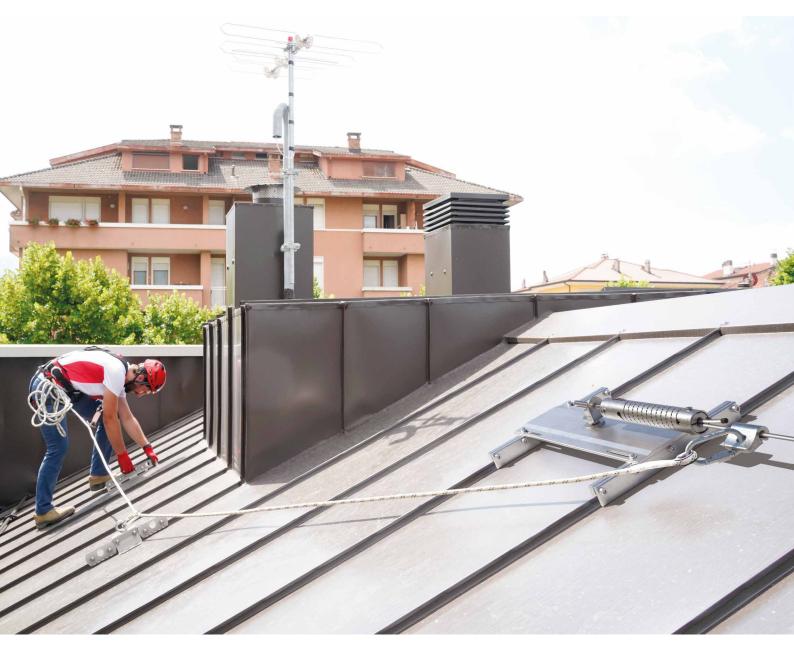
MODULAR

The optional post allows the anchor point to be raised, thus overcoming obstacles on the roof.

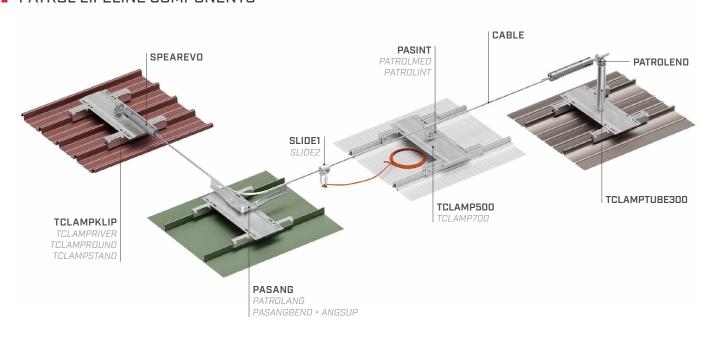








■ PATROL LIFELINE COMPONENTS



■ T-CLAMP | CODES AND DIMENSIONS

CODE	description	material		B [mm] <i>[in]</i>	H [mm] <i>[in]</i>	L [mm] <i>[in]</i>	pcs	
TCLAMP500	universal plate for small and medium spans between seams	EN AW-6082-T6	alu	190 7 1/2	-	515 20 1/4	1	B
TCLAMP700	universal plate for large spans between seams	EN AW-6082-T6	- alu 6082	190 7 1/2	-	760 29 15/16	1	
TCLAMPTUBE300	optional spacer to overcome obstacles	EN AW-6060-T6/ AISI 304	alu 6060 A2 AISI 304	50 1 15/16	300 11 3/4	- -	1	H H
TCLAMPKLIP	fastening clamps set for Klip-Lok type roofs	EN AW-6060-T6		- -	<u>-</u> -	- -	1	
TCLAMPRIVER	fastening clamps set for Riverclack type roofs	EN AW-6060-T6	alu	-	- -	- -	1	
TCLAMPROUND	fastening clamps set for round standing seam roofs	EN AW-6060-T6	6060	- -	- -	- -	1	-
TCLAMPSTAND	fastening clampsset for standing seam roofs	EN AW-6060-T6		- -	- -	- -	1	

| PATROL + SHIELD | SHIELD 2

LIFELINE ON SUPPORT FOR TRAPEZOIDAL METAL ROOFS WITH AND WITHOUT **INSULATION LAYER**

COMPLETE

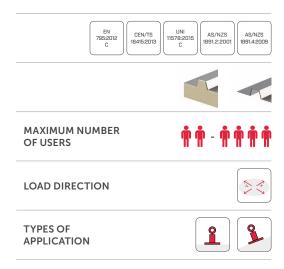
The package includes fasteners and cellular rubber gaskets, to ensure waterproofing.

VERSATILE

Used on all trapezoidal metal roofs with and without insulation layer with a span between frets of up to 420 mm.

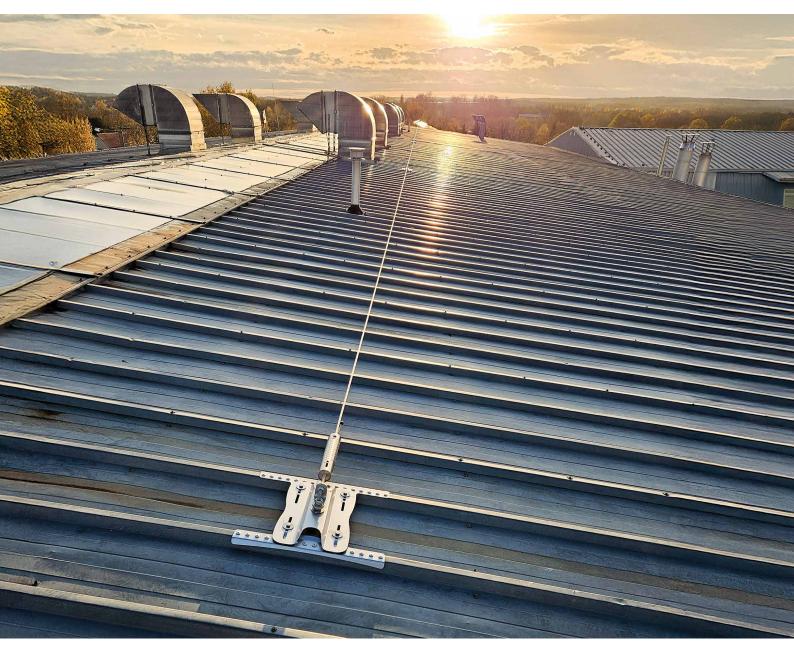
FUNCTIONAL

SHIELD can be used as a start, end or corner lifeline; SHIELD 2 is ideal as a straight intermediate point.

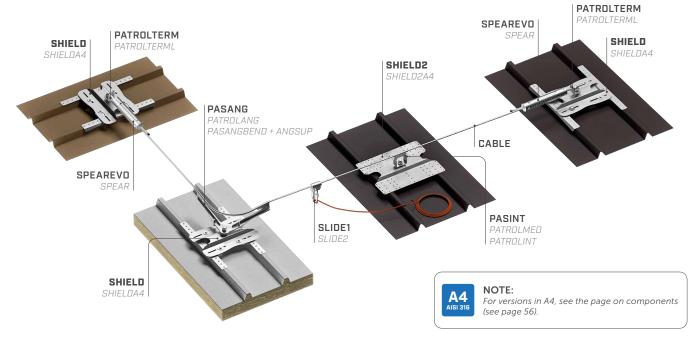








PATROL LIFELINE COMPONENTS



■ TECHNICAL DATA*

substructure		minimum thickness	fastening systems included	
	Fe	0,5 mm		
<u> </u>	Fe	0,5 mm	SHIELD: rivet 6,3 x 20,2 mm with EPDM washer (x 32)	D
	Al	1 mm	SHIELD2: rivet 6,3 x 20,2 mm with EPDM washer (x 16)	
	Al	1 mm		



^{*} The values indicated are the result of experimental tests carried out under the supervision of third parties in accordance with the standard referred to. For a correct calculation report with minimum distances according to the standard requirements, the substructure must be checked by a qualified engineer before installation.

■ SHIELD - SHIELD 2 | CODES AND DIMENSIONS

CODE	description	material		B [mm] <i>[in]</i>	H [mm] <i>[in]</i>	L [mm] [in]	pcs	
SHIELD	lifeline support	AISI 304 stainless steel grade 1.4301	2	180-420	85	476	1	
SHIELDA4	lifeline support	AISI 316 stainless steel grade 1.4401	4	7 1/8-16 9/16	3 3/8	18 3/4	1	H
CODE	description	material		B [mm] <i>[in]</i>	H [mm] <i>[in]</i>	L [mm] <i>[in]</i>	pcs	
SHIELD2	intermediate lifeline support	AISI 304 stainless steel grade 1.4301	2	250 - 370 10-14 9/16	65	322	1	L
SHIELD2A4	intermediate lifeline support	AISI 316 stainless steel grade 1.4401			2 9/16	12 11/16		Н

PATROL + WAVE

LIFELINE ON SUPPORT FOR CORRUGATED SHEET METAL ROOFS

SIMPLE

Simple and quick installation, thanks to the shape obtained with a single plate.

COMPLETE

The package includes fasteners and cellular rubber gaskets, to ensure waterproofing.

FUNCTIONAL

WAVE can be used as either an end, intermediate or angular support for lifeline systems.





LOAD DIRECTION









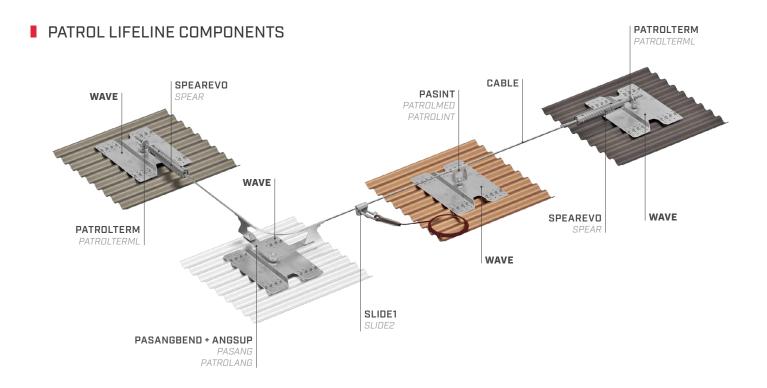








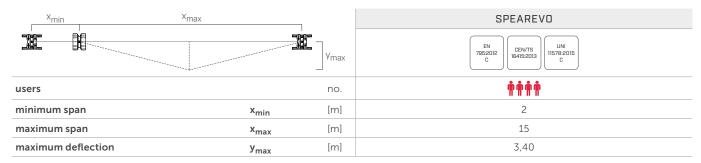




■ TECHNICAL DATA*

substructure	minimum thickness	fastening systems included						
√√ Fe	0,63 mm	self-drilling screws 5,5 x 25 mm A2 with EPDM washer (x16) 4 EPDM gaskets	E J umm>					

Wave pitch: 76 mm.



^{*} The values indicated are the result of experimental tests carried out under the supervision of third parties in accordance with the standard referred to. For a correct calculation report with minimum distances according to the standard requirements, the substructure must be checked by a qualified engineer before installation.

■ WAVE | CODES AND DIMENSIONS

CODE	description	material		B [mm] <i>[in]</i>	H [mm] <i>[in]</i>	L [mm] <i>[in]</i>	pcs	
WAVE	support for corrugated sheet metal	AISI 304 stainless steel grade 1.4301	A2 AISI 304	420 16 9/16	65 2 9/16	322 12 11/16	1	H

I PATROL + COPPO

LIFELINE ON SUPPORT FOR **ROOFS WITH FAUX TILES**

COMPLETE

The package includes fasteners and cellular rubber gaskets, to ensure roof waterproofing.

MAXIMUM NUMBER OF USERS



ADAPTABLE

Pre-drilled plate with holes at different distances to suit various types of

LOAD DIRECTION



TYPES OF APPLICATION









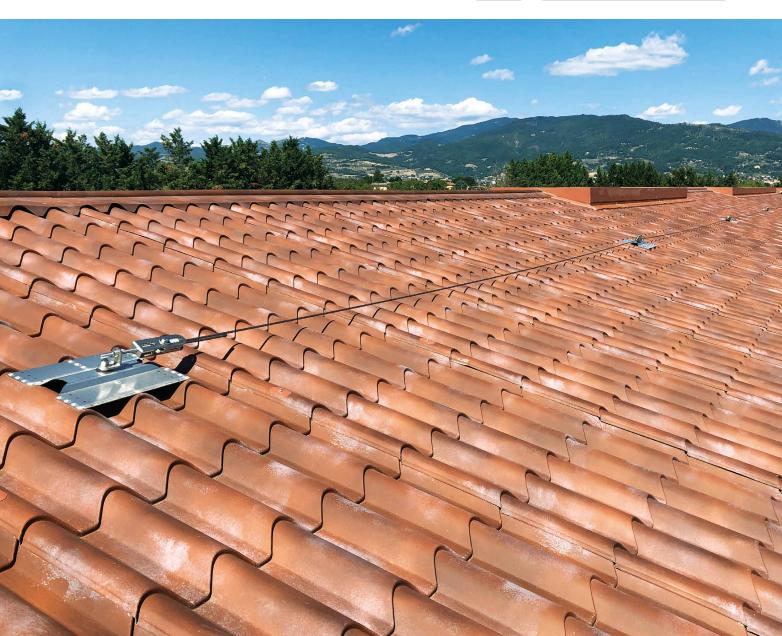




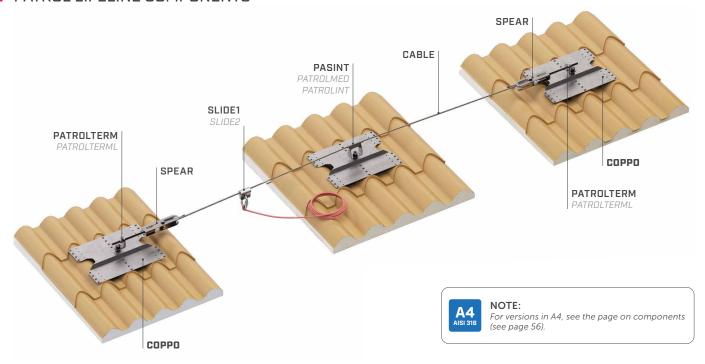


FAST

Quick assembly upon the completion of roofing with just a few tools.



■ PATROL LIFELINE COMPONENTS



■ TECHNICAL DATA*

substructure		minimum thickness	fastening systems included
	Fe	0,5 mm	situat 6.7 v 20.2 area with FDDM week or (v.24)
	Al	0,7 mm	rivet 6,3 x 20,2 mm with EPDM washer (x 24)

x _{min} x _{max}		SPEAR
	V _{max}	EN 795.2012 CEN/TS 16415.2013 UINI 11578:2015 C
users	no.	n n
minimum span	x _{min} [m]	2
maximum span	x _{max} [m]	7,5
maximum deflection	y _{max} [m]	1,44

^{*} The values indicated are the result of experimental tests carried out under the supervision of third parties in accordance with the standard referred to. For a correct calculation report with minimum distances according to the standard requirements, the substructure must be checked by a qualified engineer before installation.

■ COPPO | CODES AND DIMENSIONS

CODE	description	material		B [mm] <i>[in]</i>	H [mm] <i>[in]</i>	L [mm] <i>[in]</i>	pcs	
СОРРО	support for faux tile roofing panel	AISI 304 stainless steel grade 1.4301	A2 AISI 3D4	166 - 200 <i>6 9/16-8</i>	65 2 9/16	322 12 11/16	1	H

| PATROL + T-ROOF

LIFELINE ON SUPPORT FOR PVC/TPO AND BITUMINOUS ROOFS

WATERPROOF

The TROOFWPLATE plate ensures complete waterproofing for flat and even slightly inclined roofs. The package includes fasteners and cellular rubber gaskets, to ensure roof waterproofing.

ADAPTABLE

The various fastening kits enable specific installation for each substructure and for different insulation thicknesses.

UNIVERSAL

Universal system for application on the roof surface with installation on various supporting substructures.



MAXIMUM NUMBER **OF USERS**



LOAD DIRECTION





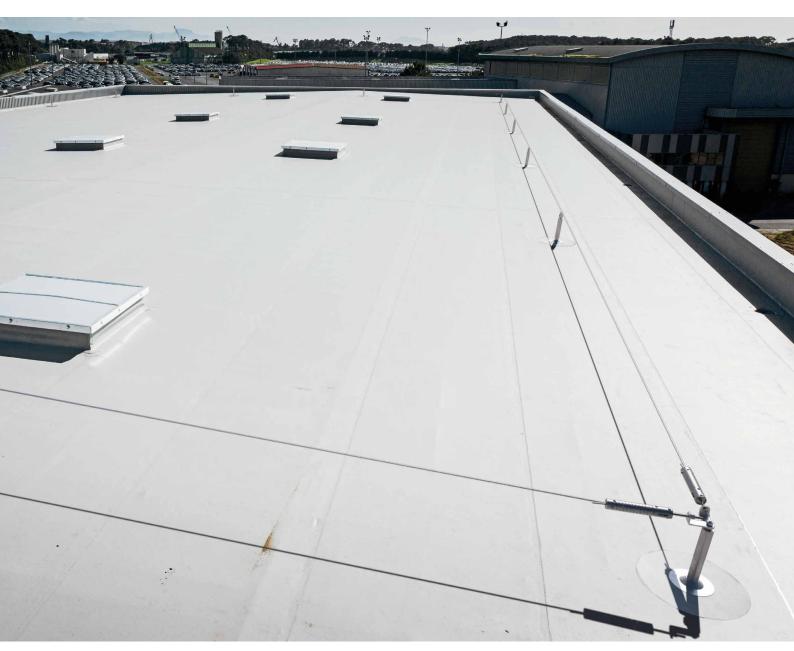




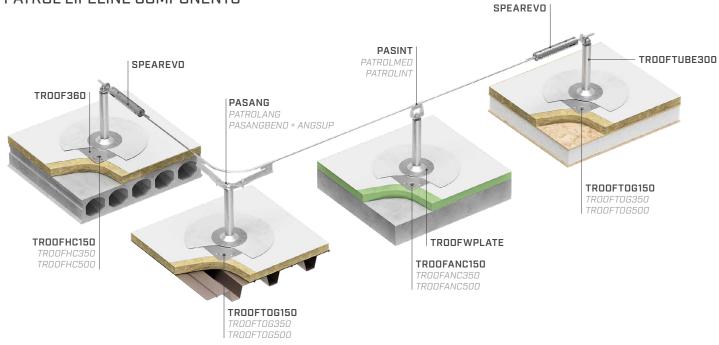








■ PATROL LIFELINE COMPONENTS



■ T-ROOF | CODES AND DIMENSIONS

CODE	description	material		B [mm]	H [mm]	L [mm]	s [mm]	pcs
TROOF360	universal plate for installation on the roof surface	AISI 304 stainless	A2 AISI 304	360	-	360	3	1
TROOFWPLATE	waterproofing plate	steel grade 1.4301 AISI 304	Ø100	-	-	-	1	
TROOFTUBE300	spacer to overcome obstacles	EN AW-6060-T6 AISI 304 stainless steel grade 1.4301	A2 AISI 304 alu 6060	50	300	-	-	1
TROOFTOG150		bright zinc plated carbon steel \$235		-	150	-	-	1
TROOFTOG350	toggle bolt kit with cup washer		-	350	-	-	1	
TROOFTOG500			-	500	-	-	1	
TROOFHC150				-	150	-	-	1
TROOFHC350	fastening kit for substructure in aerated concrete	bright zinc plated carbon steel	-	-	350	-	-	1
TROOFHC500				-	500	-	-	1
TROOFANC150		bright zinc plated carbon steel		-	150	-	-	1
TROOFANC350	fastening kit for concrete substructure			-	350	-	-	1
TROOFANC500	_			-	500	-	-	1

PATROL + BLOCK

LIFELINE ON SUPPORT WITH BALLAST FOR FLAT ROOFS

WITHOUT DRILLING

It is designed for installation on flat roofs, and does not require to drill the roof covering, avoiding thermal bridging and preserving the waterproofing layer of the structure.

FLAT ROOFS

Designed for flat roofs with inclines up to 5° with PVC, TPO or bituminous final covering, with or without gravel.

SIMPLE

Concrete ballast slabs in standard sizes simplify the installation.



PVC TPO BYTUM

MAXIMUM NUMBER OF USERS



LOAD DIRECTION







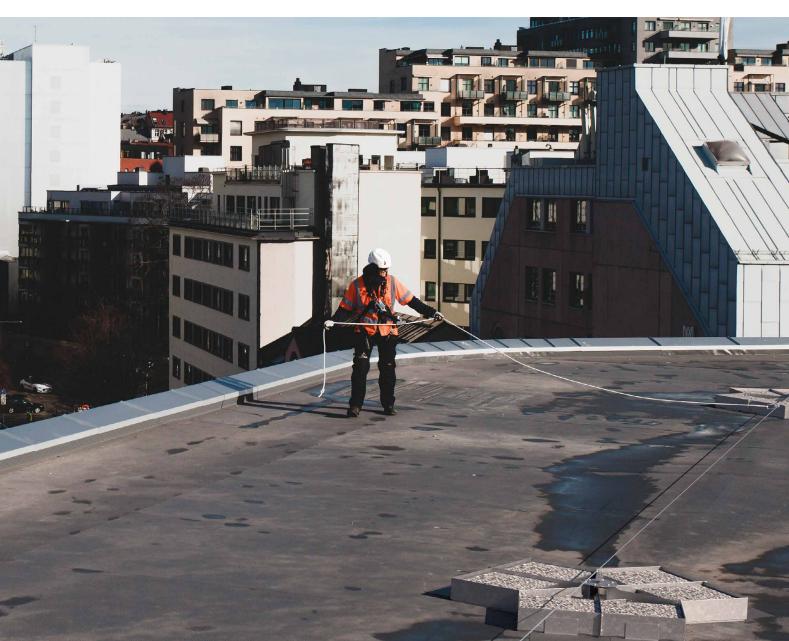




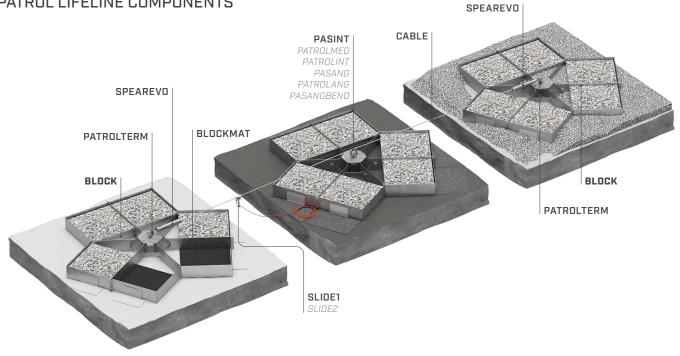




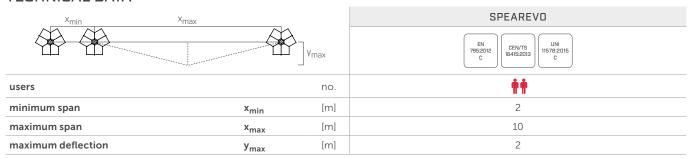




■ PATROL LIFELINE COMPONENTS



■ TECHNICAL DATA*



^{*} The values indicated are the result of experimental tests carried out under the supervision of third parties in accordance with the standard referred to. For a correct calculation report with minimum distances according to the standard requirements, the substructure must be checked by a qualified engineer before installation.

■ BLOCK | CODES AND DIMENSIONS

CODE	material	B [mm] <i>[in]</i>	H [mm] <i>[in]</i>	L [mm] <i>[in]</i>	pcs
BLOCK	AISI 304 stainless steel grade 1.4301	 1870 73 5/8	165 6 1/2	1645 64 3/4	1 H[
BLOCKPLATE	AISI 304 stainless steel grade 1.4301	120 4 3/4	120 <i>4 3/4</i>	240 9 7/16	1 JH
BLOCKMAT					optional
ballast weight					18 bricks x 21,5 kg = 387 kg
total weight					400 kg

COMPLEMENTARY PRODUCTS

CODE	description	B [mm] <i>[in]</i>	L [mm] <i>[in]</i>	s [mm] <i>[in]</i>	pcs	
BLOCKMAT	BLOCKMAT mats not included in the supply of the BLOCK item (3 pieces per BLOCK are required) it can be ordered separately	550 21 5/8	1050 41 5/16	6 0.24	1	B S

I PATROL + PATROLEND

DIRECT FASTENING ON STEEL AND **CONCRETE SUBSTRUCTURES**

EASY

Quick and easy assembly directly onto concrete or steel structure.

System designed for different applications: flat, façade, overhead.

FUNCTIONAL

Specially designed shuttles can be used to enable the operator to overcome bends and intermediate points without ever becoming disconnected from the system.



CSA Z259.16 READY





MAXIMUM NUMBER **OF USERS**



LOAD DIRECTION























PATROL LIFELINE COMPONENTS SPEAREVO SPEAR PASANGBEND + ANGSUP PASANGP PASANGBEND PASANGBEND PATROLEND SLIDE 1 SLIDE 2

■ TECHNICAL DATA*

PATROLEND

substructure	minimum thickness	fasteners		substructure	minimum thickness	fasteners	
	116 mm	INA 5.8 M16 VIN-FIX					
C20/25	170 mm	SKR Ø16	() westeren	S235JR	5 mm	DIN 933 M16 DIN 125-1A M16 MUT AI 985 M16	
	170 mm	AB1 M16					

A4 AISI 316

(see page 56).

For versions in A4, see the page on components



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■ PATROLEND | CODES AND DIMENSIONS

CODE	description	material		B [mm] <i>[in]</i>	H [mm] [in]	L [mm] <i>[in]</i>	s [mm] <i>[in]</i>	pcs	
PATROLEND	end element	AISI 304 stainless steel grade 1.4301	A2 AISI 304	40 1 9/16	61 2 3/8	66 2 5/8	6 0.24	1	S
PATROLENDA4	A4 end element	AISI 316 stainless steel grade 1.4401	A4 AISI 316	40 1 9/16	61 2 3/8	66 2 5/8	6 0.24	1	H

PATROL OVERHEAD

OVERHEAD LIFELINE ON STEEL AND CONCRETE

FUNCTIONAL

Lifeline for aerial applications such as maintenance of coaches, trucks, machinery and aeroplanes.

SAFE

The sliding device allows operators to pass intermediate elements and curves without ever disengaging from the system.

PRACTICAL

Possibility of anchoring to the upside-down TOWER support to lower the lifeline relative to the ceiling.



CSA Z259.16 READY Validated through testing





MAXIMUM NUMBER **OF USERS**



LOAD DIRECTION







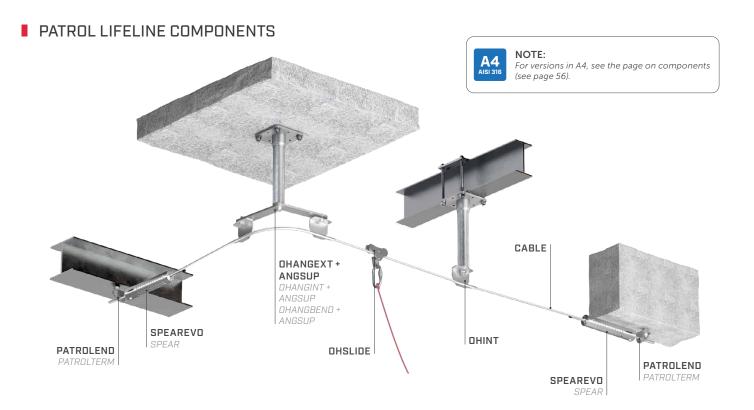












■ TECHNICAL DATA*

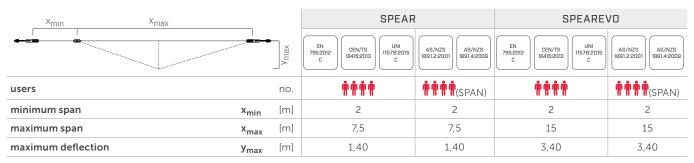
PATROLEND | PATROLTERM

substructure	minimum thickness	fasteners				
	116 mm	INA 5.8 M16 VIN-FIX				
C20/25	170 mm	SKR Ø16	1 11111111111111111111111111111111111			
	170 mm	AB1 M16				

substr	ucture	minimum thickness	fasteners				
I	S235JR	5 mm	DIN 933 M16 DIN 125-1A M16 MUT AI 985 M16	9			

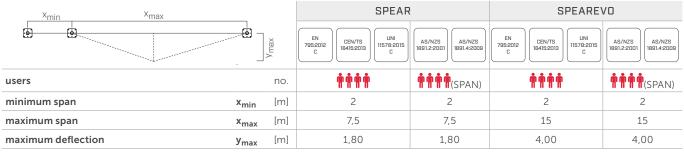
^{*} The values indicated are the result of experimental tests carried out under the supervision of third parties in accordance with the standard referred to. For a correct calculation report with minimum distances according to the standard requirements, the substructure must be checked by a qualified engineer before installation.

PATROL + PATROLEND



For PATROLEND components, see page 56.

PATROL + TOWER / TOWERA2 / TOWERXL



For TOWER / TOWERA2 / TOWERXL components, see page 30-34.

PATROL ON WALL

WALL-MOUNTED LIFELINE ON STEEL AND CONCRETE

MINIMALIST DESIGN

The size of the components minimises the aesthetic impact of the safety device on the wall.

FUNCTIONAL

Thanks to the different components availability, it is possible to create customised lifelines according to site requirements.

PRACTICAL

It can be used components that allow the operator to overcome intermediate points and curves by means of a sliding device.



CSA Z259.16 READY Validated through testing





MAXIMUM NUMBER **OF USERS**





LOAD DIRECTION





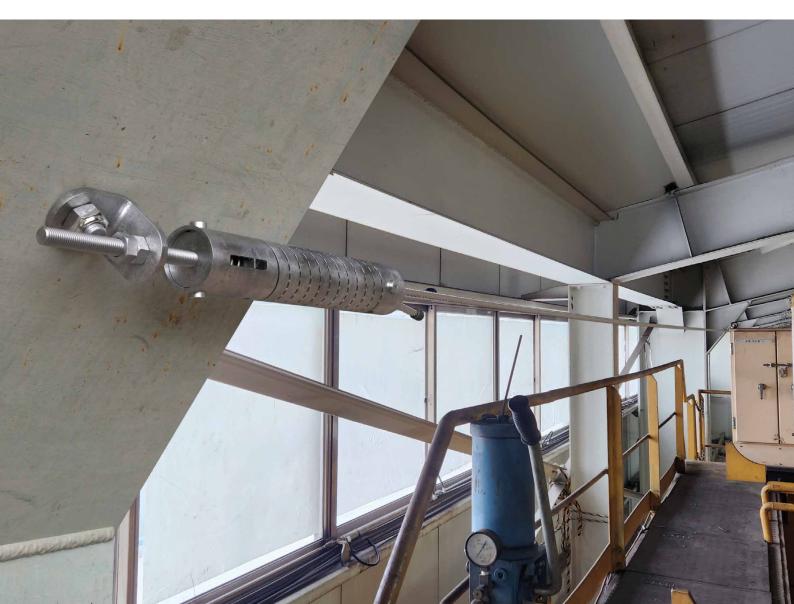




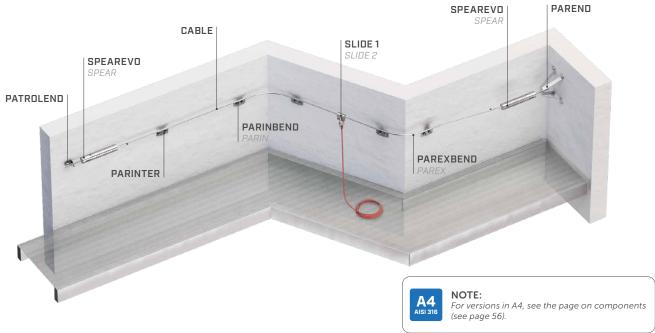








■ PATROL LIFELINE COMPONENTS



■ TECHNICAL DATA*

PATROLEND | PATROLENDA4

PAREND | PARENDA4

substructure	minimum thickness	fasteners	substructure	minimum thickness	fasteners	
	116 mm	INA 5.8 M16 VIN-FIX		98 mm	INA 5.8 M12 VIN-FIX	
C20/25	170 mm	SKR Ø16	C20/25	130 mm	SKR Ø12	
	170 mm	AB1 M16		140 mm	AB1 M12	
S235JR	5 mm	DIN 933 M16 DIN 125-1A M16 MUT AI 985 M16	S235JR	5 mm	DIN 933 M12 DIN 125-1A M12 MUT AI 985 M12	

^{*} The values indicated are the result of experimental tests carried out under the supervision of third parties in accordance with the standard referred to. For a correct calculation report with minimum distances according to the standard requirements, the substructure must be checked by a qualified engineer before installation.

_ x _{min} x _{max}			SPEAR	ł	SPEAREVO			
	Ymax		EN 795:2012 CEN/TS 16415:2013 UNI 11578:2015 C	AS/NZS 1891.2:2001 AS/NZS 1891.4:2009	EN 795:2012 CEN/TS 11578:2015 C	AS/NZS 1891.2:2001 AS/NZS 1891.4:2009		
users		no.	ŤŤŤŤ	TTT (SPAN)	††††	TTT (SPAN)		
minimum span	X _{min}	[m]	2	2	2	2		
maximum span	x _{max}	[m]	7,5	7,5	15	15		
maximum deflection	y _{max}	[m]	1,40	1,40	3,40	3,40		

■ END ELEMENTS | CODES AND DIMENSIONS

CODE	description	material		B [mm] <i>[in]</i>	H [mm] <i>[in]</i>	L [mm] <i>[in]</i>	s [mm] <i>[in]</i>	pcs	
PATROLEND	end element	AISI 304 stainless steel grade 1.4301	A2 AISI 304	40 1 9/16	61 2 3/8	66 2 5/8	6 0.24	1	L H
PATROLENDA4	A4 end element	AISI 316 stainless steel grade 1.4401	A4 AISI 316	40 1 9/16	61 2 3/8	66 2 5/8	6 0.24	1	В
PAREND	end element	AISI 304 stainless steel grade 1.4301	A2 AISI 304	300 11 3/4	150 6	300 11 3/4	-	1	H B
PARENDA4	A4 end element	AISI 316 stainless steel grade 1.4401	A4 AISI 316	300 11 3/4	150 6	300 11 3/4	-	1	

| PATROL | components

■ END ELEMENTS | CODES AND DIMENSIONS

CODE	description	material	B [mm] <i>[in]</i>	H [mm] <i>[in]</i>	L [mm] <i>[in]</i>	s [mm] <i>[in]</i>	pcs	
PATROLTERM	end element	AISI 304 stainless steel grade 1.4301	40	61	66	6	1	55
PATROLTERMA4	A4 end element	AISI 316 stainless steel grade 1.4401	1 9/16	2 3/8	2 5/8	0.24	1	H
PATROLEND	end element	AISI 304 stainless steel grade 1.4301	40	61	66	6	1	
PATROLENDA4	A4 end element	AISI 316 stainless steel grade 1.4401	1 9/16	2 3/8	2 5/8	0.24	1	H
PATROLTERML	long end element	AISI 304 stainless steel grade 1.4301	40 1 9/16	61 2 3/8	180 71/8	6 0.24	1	H B
PAREND	end element with 4 feet per side	AISI 304 stainless steel grade 1.4301	300	150	300	-	1	H
PARENDA4	A4 end element with 4 feet per side	AISI 316 stainless steel grade 1.4401	11 3/4	6	11 3/4	-	1	

■ TENSIONERS AND ENERGY ABSORBERS | CODES AND DIMENSIONS

CODE	description	material	B [mm] <i>[in]</i>	H [mm] <i>[in]</i>	L [mm] <i>[in]</i>	s [mm] <i>[in]</i>	pcs	
SPEAR	set of pair of tensioners with absorber	AISI 304 stainless steel grade 1.4301 EN AW 6082 aluminium	50	63	334	63 334 -		
SPEARA4	set of pair of tensioners with A4 absorber	AISI 316 stainless steel grade 1.4401 EN AW 6082 aluminium	1 15/16	2 1/2	13 3/16	-	1	H
SPEAREVO	set of pair of tensioners with absorber	AISI 304 stainless steel grade 1.4301	50	50	436	_	1	
SPEAREVOA4	set of pair of tensioners with A4 absorber	AISI 316 stainless steel grade 1.4401	1 15/16	1 15/16	17 1/8	-	_	

■ INTERMEDIATE ELEMENTS | CODES AND DIMENSIONS

CODE	description	material	d₁ [mm] <i>[in]</i>	B [mm] <i>[in]</i>	H [mm] <i>[in]</i>	L [mm] <i>[in]</i>	s [mm] <i>[in]</i>	pcs	
PASINT	pass-through intermediate element	AISI 304 stainless steel grade 1.4301		35	86	100	-	1	H
PASINTA4	A4 pass-through intermediate element	AISI 316 stainless steel grade 1.4401	-	1 3/8	3 3/8	4	-	Τ	
PARINTER	pass-through intermediate element for façades	AISI 304 stainless steel grade 1.4301	_	100	88	120	_	1	
PARINTERA4	pass-through intermediate element for A4 façades	AISI 316 stainless steel grade 1.4401	-	4	3 7/16	4 3/4	-	1	H
PATROLINT	semi-automatic intermediate element	AISI 304 stainless steel grade 1.4301	-	50 1 15/16	50 1 15/16	375 14 3/4	5 0.20	1	H L JS
PATROLMED	non-pass-through intermediate element	AISI 304 stainless steel grade 1.4301 EN AW 6082 aluminium	55 2.17	30 1 3/16	50 1 15/16	-	-	1	$H \left[\begin{array}{c} d_1 \\ \hline \\ \end{array} \right]$
OHINT	pass-through intermediate element for aerial application	AISI 304 stainless steel grade 1.4301	-	40	86	130	-	4	L B
OHINTA4	pass-through intermediate element for aerial application in A4	AISI 316 stainless steel grade 1.4401		1 9/16	3 3/8	5 1/8	-	1	8

■ SLIDING DEVICES | CODES AND DIMENSIONS

CODE	description	material	d₁ [mm] <i>[in]</i>	B [mm] <i>[in]</i>	H [mm] <i>[in]</i>	L [mm] <i>[in]</i>	pcs	
SLIDE1	removable sliding device	AISI 304 stainless steel grade 1.4301	_	30	60	60	1	L
SLIDE1A4	removable A4 sliding device	AISI 316 stainless steel grade 1.4401	-	1 3/16	2 3/8	2 3/8	1	H
SLIDE2	fixed sliding device	AISI 304 stainless steel grade 1.4301	_	30	60	60	1	
SLIDE2A4	fixed A4 sliding device	AISI 316 stainless steel grade 1.4401	-	1 3/16	2 3/8	2 3/8	1	H
OHSLIDE	removable sliding device for overhead lifeline	AISI 304 stainless steel grade 1.4301	_	46,5	93	98	1	
OHSLIDEA4	removable sliding device for overhead A4 lifeline	AISI 316 stainless steel grade 1.4401	-	1 7/8	3 11/16	3 7/8	1	

■ ANGLE BRACKETS AND ACCESSORIES | CODES AND DIMENSIONS

CODE	description	material	d₁ [mm] <i>[in]</i>	B [mm] <i>[in]</i>	H [mm] <i>[in]</i>	L [mm] <i>[in]</i>	pcs	
PASANG	corner pass-through element	AISI 304 stainless steel grade 1.4301		300	69	300	1	В
PASANGA4	A4 pass-through angle bracket	AISI 316 stainless steel grade 1.4401	-	11 3/4	2 11/16	11 3/4		
PASANGBEND	pass-through angle bracket for adjustable supports 105°-165°	AISI 304 stainless steel grade 1.4301	_	54,5	102	565	4	L JH
PASANGBENDA4	pass-through angle bracket for adjustable A4 supports 105°-165°	AISI 316 stainless steel grade 1.4401	-	2 3/16	4	22 1/4	1	B
PAREX	external pass-through angle bracket for façades	AISI 304 stainless steel grade 1.4301	_	326	116	326	1	H T
PAREXA4	external pass-through angle bracket for A4 façades	AISI 316 stainless steel grade 1.4401	-	12 3/4	4 9/16	12 3/4	1	
PAREXBEND	external pass-through angle bracket for façades adjustable 105°-165°	AISI 304 stainless steel grade 1.4301	_	72	116	565	1	H L
PAREXBENDA4	external pass-through angle bracket for A4 façades adjustable 105°-165°	AISI 316 stainless steel grade 1.4401	-	2 13/16	4 9/16	22 1/4	-	
PARIN	internal pass-through angle bracket for façades	AISI 304 stainless steel grade 1.4301	_	357	88	357	1	L IH
PARINA4	internal pass-through angle bracket for A4 façades	AISI 316 stainless steel grade 1.4401	-	14	3 7/16	14		_ []
PARINBEND	internal pass-through angle bracket for façades adjustable 105°-165°	AISI 304 stainless steel grade 1.4301		42	87	565	1	H ST
PARINBENDA4	internal pass-through angle bracket for A4 façades adjustable 105°-165°	AISI 316 stainless steel grade 1.4401	-	1 5/8	3 7/16	22 1/4		
PATROLANG	non-pass-through angle bracket	AISI 304 stainless steel grade 1.4301 EN AW 6082 aluminium	90 <i>3.50</i>	- -	58 2 1/4	175 6 7/8	1	d ₁
OHANGINT	internal pass-through angle bracket for overhead application	AISI 304 stainless steel grade 1.4301		354	86	354	1	
OHANGINTA4	inside pass-through angle bracket for aerial application in A4	AISI 316 stainless steel grade 1.4401	-	13 15/16	3 7/16	13 15/16		B L
OHANGEXT	external pass-through angle bracket for overhead application	AISI 304 stainless steel grade 1.4301		326	86	326	1	В
OHANGEXTA4	outside pass-through angle bracket for aerial application in A4	AISI 316 stainless steel grade 1.4401	-	12 3/4	3 7/16	12 3/4		H[
OHANBEND	external/internal pass-through angle bracket for overhead application, adjustable 105°-165°	AISI 304 stainless steel grade 1.4301		39,5	86	565	1	L GH
OHANGBENDA4	external/internal pass-through angle bracket for overhead application, adjustable 105°-165° in A4	AISI 316 stainless steel grade 1.4401	-	1 9/16	3 7/16	22 1/4		B
ANGSUP	support for PASANGBEND, OHANGINT and OHANGEXT	AISI 304 stainless steel grade 1.4031		275	16	0 - 550	1	H
ANGSUPA4	support for PASANGBENDA4, OHANGINTA4 and OHANGEXTA4	AISI 316 stainless steel grade 1.4401	-	10 7/8	5/8	0 - 19 3/4	т	B & L
BENDTOOL	adjustable angle bracket bending tool (see page 238)	S235JR zinc plated steel	-	353,5 13 15/16	95 <i>3.75</i>	171 - 353 6 3/4 - 13 15/16	1	H

■ ROPE | CODES AND DIMENSIONS

CODE	description	material	pcs
CABLE	stainless steel rope Ø8 7x7	AISI 316 stainless steel grade 1.4401	1

■ INFORMATION PLATES AND ACCESSORIES | CODES AND DIMENSIONS

CODE	description	material	pcs
PATROLSTOP	limit switch element	-	1
TARGAxy*	information plate for fall protection systems	stainless steel (AISI 304), plastic	1
TARGAHORxy*	information plate for PATROL and H-RAIL	stainless steel (AISI 304), plastic	1
TARGAVERTxy*	information plate for VERTIGRIP	stainless steel (AISI 304), plastic	1

^{*}xy represents the ISO 639-1 language code, see the table below for reference.

EXAMPLE:

TARGAEN information plate for fall protection systems in EN (English) information plate for PATROL and H-RAIL in EN (English) information plate for VERTIGRIP in EN (English)

■ PATROLKIT10 | 10 m LIFELINE KIT

CODE		description	material		
PATROLKIT10	PATROLTERM	end element	AISI 304 stainless steel grade 1.4301	2	
	SPEAR	set of pair of tensioners with absorber	AISI 304 stainless steel grade 1.4301 EN AW 6082 aluminium	1	
	CABLE	stainless steel rope Ø8 7x7 11 m	AISI 316 stainless steel grade 1.4401	1	

Also includes a 22 kN webbing length 0.4 m EN 795/B EN 566 - EN 354.

■ PATROLKIT15 | 15 m LIFELINE KIT

CODE		description	material		
PATROLKIT15	PATROLTERM	end element	AISI 304 stainless steel grade 1.4301	2	
	SPEAR	set of pair of tensioners with absorber	AISI 304 stainless steel grade 1.4301 EN AW 6082 aluminium	1	
	CABLE	stainless steel rope Ø8 7x7 16 m	AISI 304 stainless steel grade 1.4301	1	

Also includes a 22 kN webbing length 0.4 m EN 795/B EN 566 - EN 354.

■ PATROLKIT30 | 30 m LIFELINE KIT

CODE		description	material		
PATROLKIT30	PATROLTERM	end element	AISI 304 stainless steel grade 1.4301	2	
	SPEAR	set of pair of tensioners with absorber	AISI 304 stainless steel grade 1.4301 EN AW 6082 aluminium	1	
	PATROLMED	non-pass-through intermediate element	AISI 304 stainless steel grade 1.4301 EN AW 6082 aluminium	1	
	CABLE	stainless steel rope Ø8 7x7 31 m	AISI 316 stainless steel grade 1.4401	1	• *

Also includes a 22 kN webbing length 0.4 m EN 795/B EN 566 - EN 354.