

PATROL + PATROLEND



LIFELINE WITH DIRECT FASTENING ON STEEL AND CONCRETE SUBSTRUCTURES



EASY

Quick and easy assembly directly onto concrete or steel structure.



UNIVERSAL

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

USE

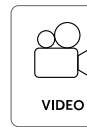
Specially designed shuttles can be used to enable the operator to overcome bends and intermediate points without ever becoming disconnected from the system.



LOAD DIRECTION



TYPES OF APPLICATION



VIDEO



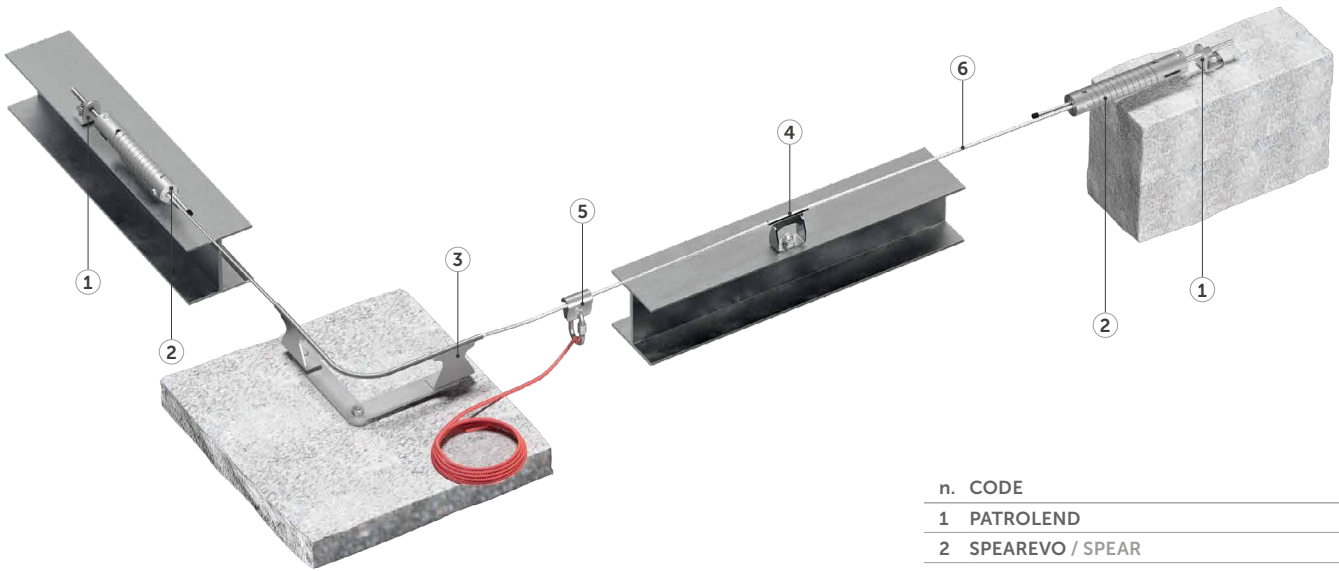
MANUALS



▼ Installation of a PATROL lifeline directly on the steel or concrete supporting structure.



PATROL LIFELINE COMPONENTS



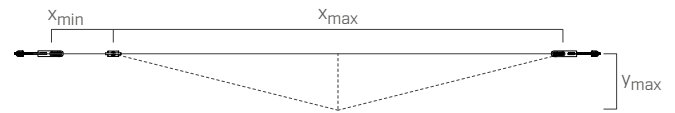
n. CODE

1	PATROLEND
2	SPEAREVO / SPEAR
3	PASANGBEND + ANGSUP / PASANG / PATROLANG
4	PASINT / PATROLMED / PATROLINT
5	SLIDE 1 / SLIDE 2
6	CABLE

TECHNICAL DATA*

substructure	minimum thickness	fasteners
C20/25	140 mm	rod Ø16 VIN-FIX HYB-FIX
S235JR	5 mm	EKS + ULS + MUT

		with SPEAR	with SPEAREVO NEW
minimum spacing	X_{min} [m]	2	2
maximum spacing	X_{max} [m]	7,5	15
maximum deflection	Y_{max} [m]	1,30	3,35

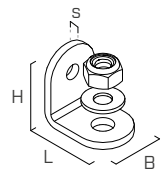


* The values indicated are the result of experimental tests carried out under the supervision of third parties in accordance with the standard referred to. For a calculation report with minimum distances according to the relevant standard requirements, the substructure must be checked by a qualified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

PATROLEND | CODES AND DIMENSIONS

A2
AISI 304

CODE	material	B [mm]	H [mm]	L [mm]	s [mm]	pcs
PATROLEND	AISI 304 stainless steel grade 1.4301	40	61	66	6	1



PATROL OVERHEAD



OVERHEAD LIFELINE ON STEEL AND CONCRETE



APPLICATION

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



SAFE

Sliding device that 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.



LOAD DIRECTION



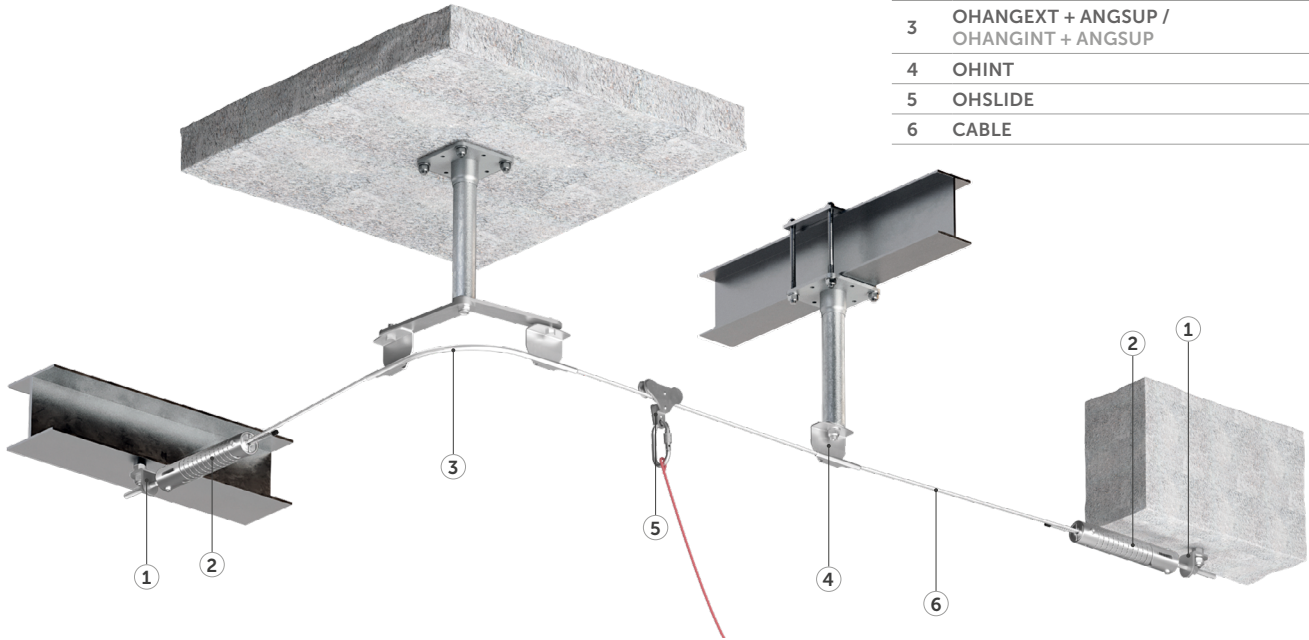
TYPES OF APPLICATION

▼ Installation of an overhead PATROL lifeline directly on the steel or concrete supporting structure.



PATROL LIFELINE COMPONENTS

n.	CODE
1	PATROLEND / PATROLTERM
2	SPEAREVO / SPEAR
3	OHANGEXT + ANGSUP / OHANGINT + ANGSUP
4	OHINT
5	OHSLIDE
6	CABLE



TECHNICAL DATA*

substructure	minimum thickness	fasteners
C20/25	140 mm	rod $\varnothing 12/\varnothing 16$ VIN-FIX HYB-FIX
S235JR	5 mm	EKS + ULS + MUT

		with SPEAR	with SPEAREVO NEW
minimum spacing	X_{min} [m]	2	2
maximum spacing	X_{max} [m]	7,5	15
maximum deflection	Y_{max} [m]	1,30	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 calculation report with minimum distances according to the relevant standard requirements, the substructure must be checked by a qualified engineer before installation.

PATROLEND | CODES AND DIMENSIONS

A2
AISI 304

CODE	material	B	H	L	s	pcs	
		[mm]	[mm]	[mm]	[mm]		
PATROLEND	AISI 304 stainless steel grade 1.4301	40	61	66	6	1	
PATROLTERM	AISI 304 stainless steel grade 1.4301						

COMPLEMENTARY PRODUCTS

CODE	description	page	
OHINT	pass-through intermediate element for aerial application	48	
OHANGINT	inside pass-through angle bracket for aerial application in A4	49	

CODE	description	page	
OHANGEXT	outside pass-through angle bracket for aerial application in A4	50	
ANGSUP	support for PASANGBENDA4, OHANGINTA4 and OHANGEXTA4	50	

For TOWER codes see page 22.

PATROL ON WALL



WALL-MOUNTED LIFELINE ON STEEL AND CONCRETE



AESTHETICS

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



FUNCTIONAL

Thanks to the different components available, it is possible to create life-lines according to site requirements.

PRACTICAL

Possibility of using components that allow the operator to pass through intermediate points and curves by means of a sliding device.



LOAD DIRECTION



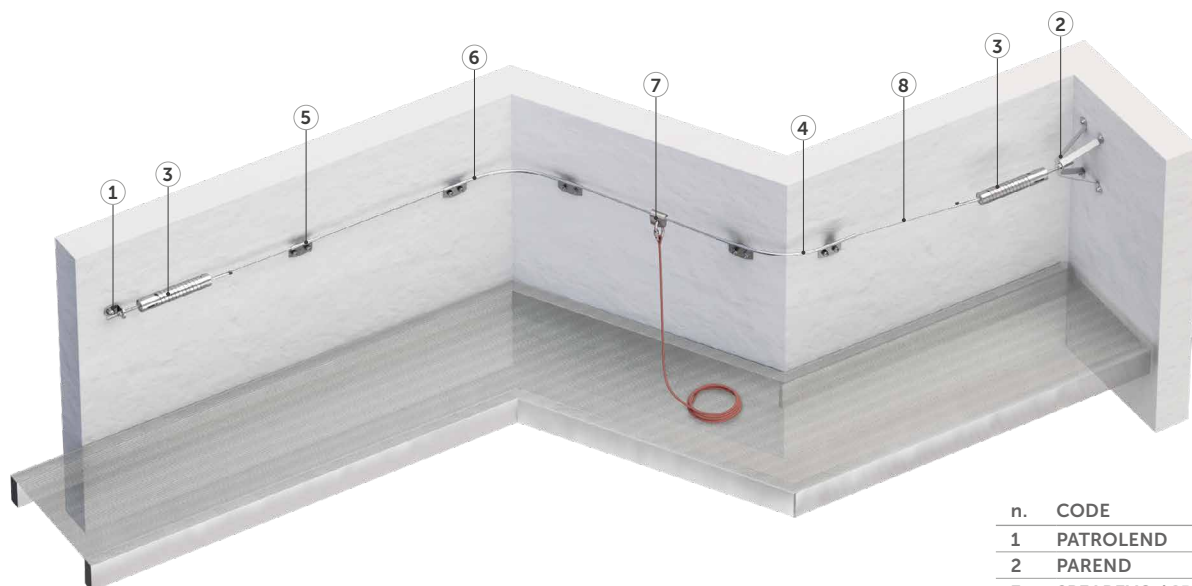
TYPES OF APPLICATION



▼ *PATROL lifeline installed on the wall directly on a steel or concrete support structure.*



PATROL LIFELINE COMPONENTS



n.	CODE
1	PATROLEND
2	PAREND
3	SPEAREVO / SPEAR
4	PAREXBEND / PAREX
5	PARINTER
6	PARINBEND / PARIN
7	SLIDE 1 / SLIDE 2
8	CABLE

TECHNICAL DATA*

substructure	minimum thickness	fasteners
C20/25	140 mm	rod Ø12/Ø16 VIN-FIX HYB-FIX
S235JR	5 mm	EKS + ULS + MUT

		with SPEAR	with SPEAREVO NEW
minimum spacing	X_{min} [m]	2	2
maximum spacing	X_{max} [m]	7,5	15
maximum deflection	Y_{max} [m]	1,30	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 calculation report with minimum distances according to the relevant standard requirements, the substructure must be checked by a qualified engineer before installation.

PATROLEND | CODES AND DIMENSIONS

A2
AISI 304

CODE	material	B [mm]	H [mm]	L [mm]	s [mm]	pcs	
PATROLEND	AISI 316 stainless steel grade 1.4401	40	61	66	6	1	
PAREND	AISI 304 stainless steel grade 1.4301	300	150	300	-	1	

COMPLEMENTARY PRODUCTS

CODE	description	page	
PAREX	external pass through angle bracket for façades	49	
PARIN	internal pass through angle bracket for façades	50	
PARINTER	pass through intermediate element for façades	49	

CODE	description	page	
PARINBEND	internal pass-through angle bracket for façades adjustable 105°-165°	50	
PAREXBEND	external pass-through angle bracket for façades adjustable 105°-165°	50	

PATROL A4

LIFELINE WITH A4 STAINLESS STEEL COMPONENTS

A4
AISI 316

EN
795:2012 C

CEN/TS
16415:2013

UNI
11578:2015
C



STRONG

AISI 316 stainless steel elements provide excellent corrosion resistance in marine and industrial environments.

USE

Specially designed shuttles can be used to enable the operator to pass through bends and intermediate points without ever disconnecting.

ASSEMBLY

Quick and easy directly on concrete or steel structure.



LOAD DIRECTION



TYPES OF APPLICATION



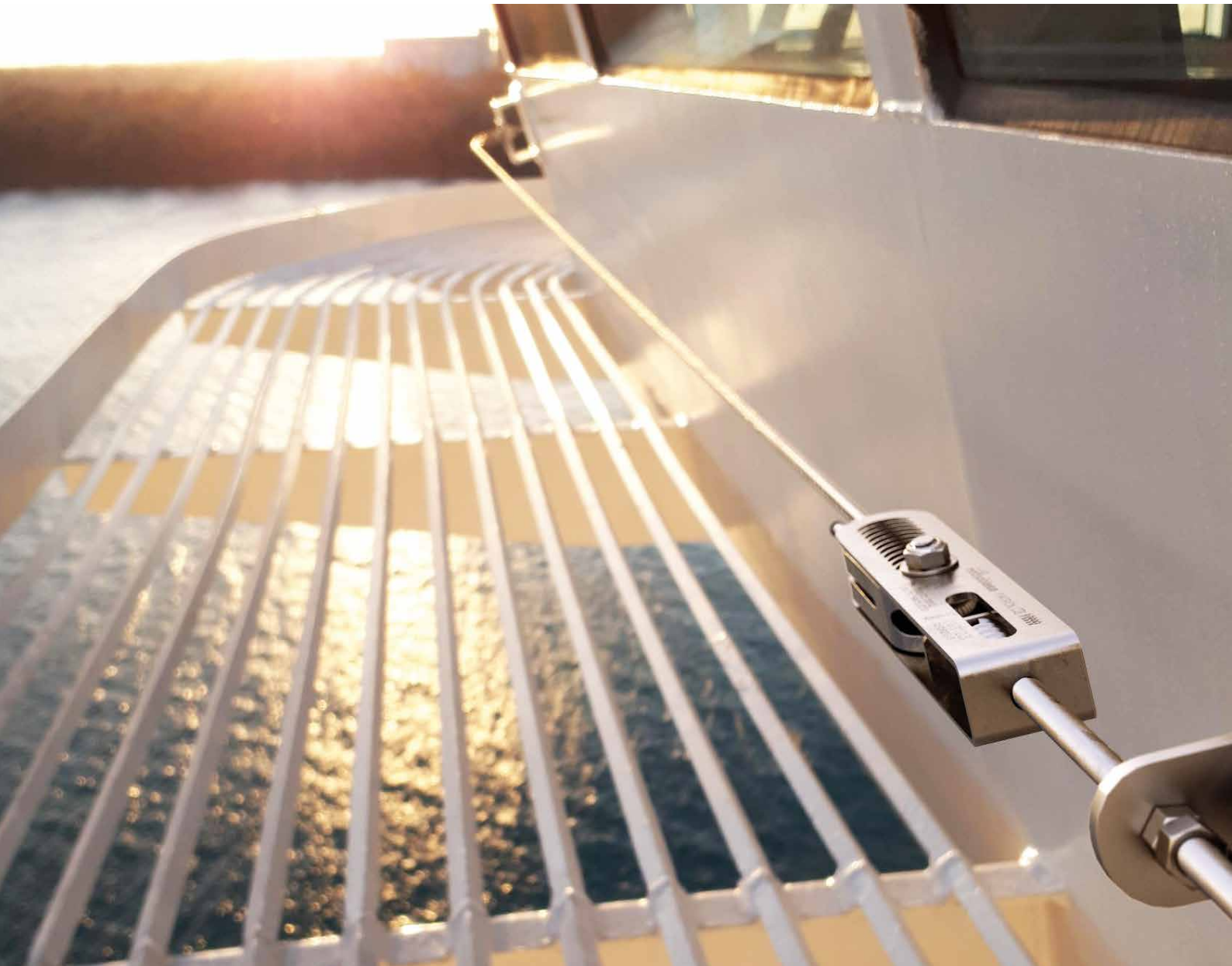
VIDEO



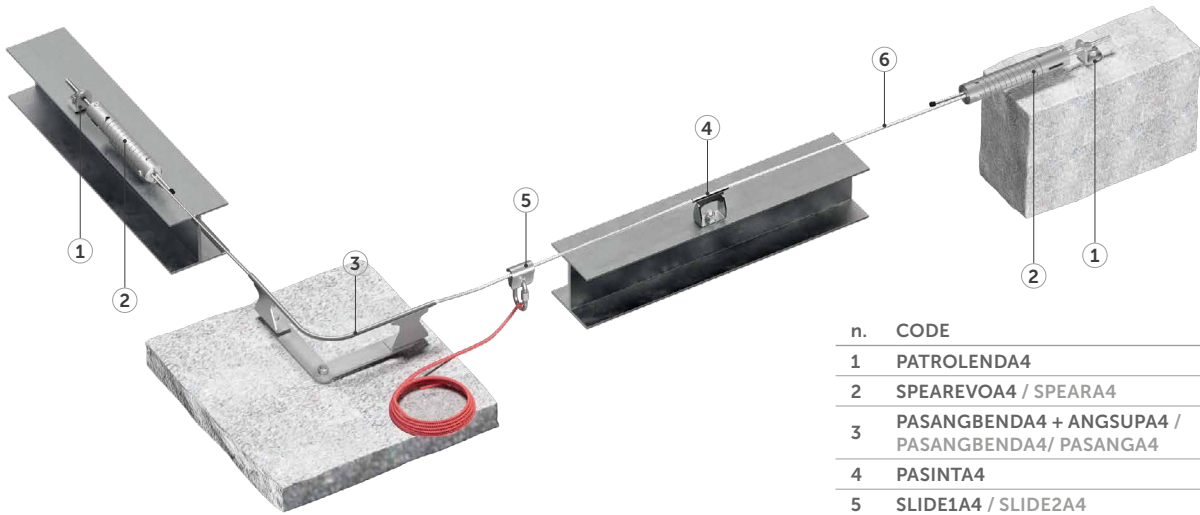
MANUALS



▼ *PATROL lifeline installed with stainless steel supports on the deck of a ship.*



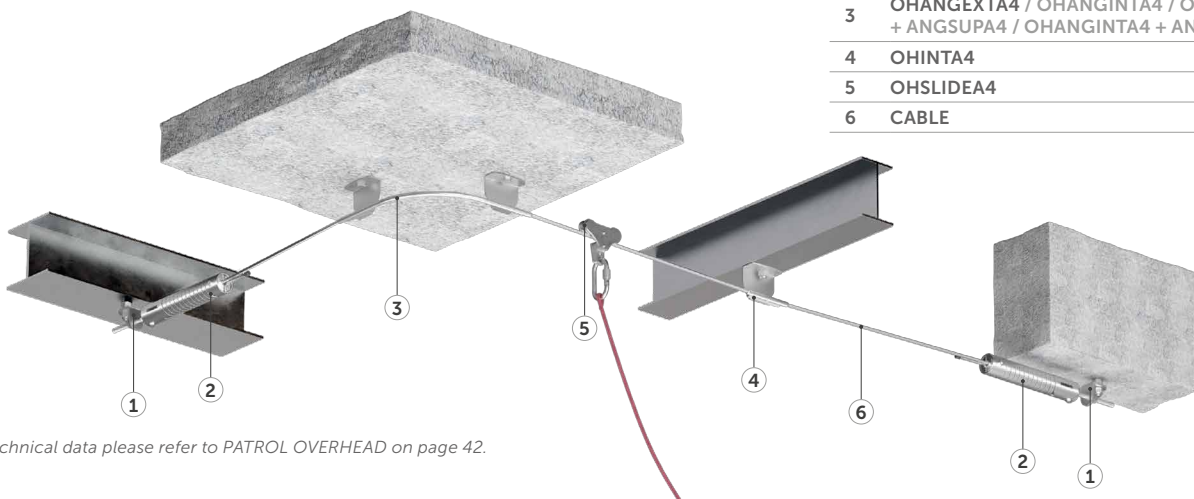
PATROL A4 LIFELINE COMPONENTS



n.	CODE
1	PATROLENDA4
2	SPEAREVOA4 / SPEARA4
3	PASANGBENDA4 + ANGSUPA4 / PASANGBENDA4/ PASANGA4
4	PASINTA4
5	SLIDE1A4 / SLIDE2A4
6	CABLE

For technical data please refer to PATROL + PATROLEND on page 40.

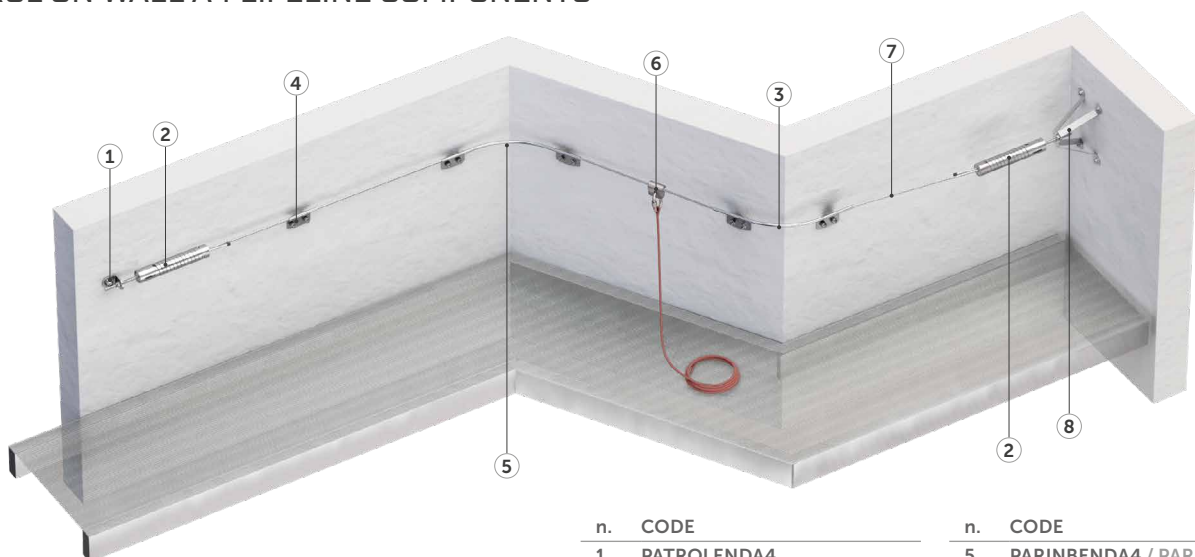
PATROL OVERHEAD A4 LIFELINE COMPONENTS



n.	CODE
1	PATROLENDA4
2	SPEAREVOA4 / SPEARA4
3	OHANGEXTA4 / OHANGINTA4 / OHANGEXTA4 + ANGSUPA4 / OHANGINTA4 + ANGSUPA4
4	OHINTA4
5	OHSLIDEA4
6	CABLE

For technical data please refer to PATROL OVERHEAD on page 42.

PATROL ON WALL A4 LIFELINE COMPONENTS



n.	CODE	n.	CODE
1	PATROLENDA4	5	PARINBENDA4 / PARINA4
2	SPEAREVOA4 / SPEARA4	6	SLIDE1A4 / SLIDE2A4
3	PAREXBENDA4 / PAREXA4	7	CABLE
4	PARINTERA4	8	PARENDA4

For technical data please refer to PATROL ON WALL on page 44.