

Secures everything in transit™



**Textile restraint solutions
for the aerospace industry**

 **GPI Forankra**
CARGO NETS AND RESTRAINT SOLUTIONS

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FORANKRA GROUP

Forankra offers products and customized solutions in cargo securing, lifting and cargo optimization through the whole logistic chain – from straps and lashings to technically advanced cargo securing systems for all kinds of road, air and sea transports.

With our knowledge and expertise, we help our customers **to secure everything in transit.**

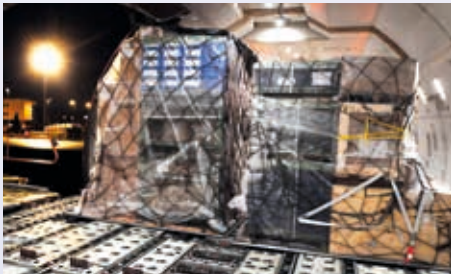
GPI FORANKRA

For more than 35 years, GPI Forankra designs, develops and manufactures all types of cargo restraint systems for aerospace industry. Our range of products includes ETSO/TSO and STC approved products:

- >> **Air cargo products:** TSO cargo nets, Tie down Straps, fittings and webbings...
- >> **Aerospace restraint systems:** 9G barrier nets, luggage nets, straps assembly...
- >> **Air cargo related products:** container doors, nets for non-structural containers...
- >> **Military products:** 9G cargo nets, tie down straps, lifting nets...

Our customers:

>> Air cargo companies



>> Original equipment manufacturers



>> Air forces, navy, military



MISSION & VISION

Our mission is to make **handling and transport by air efficient and safe.**

Our vision:

>> SAFETY

Manufacturing process and quality control management allow GPI Forankra to deliver certified products.

>> QUALITY

Our high quality products manufactured with state of the art components are assembled in-house by our team of engineers.

>> FLEXIBILITY

Our Mid-size company offers flexibility and reactivity in the supply of our products with very short lead-time.

>> INNOVATION

Our product development team are always looking for design improvements in order to offer innovating products.

PRODUCTION IN FRANCE

All our products are manufactured in our own facility in Angers France (**COUNTRY OF ORIGIN: FRANCE**).

Production “in house” with our own employees is for us the best way to offer the highest quality control and high production flexibility.



CERTIFICATION

GPI Forankra is fully approved **PART 21 subpart G and certified ISO 9001.**

PART 21 sub G: Production Organisation Approval (POA) is managed by EASA. It approves manufacturing process and quality control management of GPI Forankra production.

ISO 9001: This certification is a quality management standard. It defines a set of quality management requirements.

EASA Form 1 certificate can be delivered with most of our production.

Cargo

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CARGO PALLET NETS CERTIFIED TSO/ETSO C90C

QUALITY AND LIGHT WEIGHT FOCUS

All GPI Forankra's R&D investments are focused on weight saving. With introduction of our "Extra" light weight" polyester net range, GPI Forankra offers one of the best "cost saving" solutions for Airlines.

Our aim is to reduce operating costs of your cargo nets without compromising the safety level for your payload cargo.

>> INCREASE SECURITY :

- GPI's nets are designed and developed in compliance to NAS 3610
- GPI's nets are certified TSO/ETSO C90c and delivered with
 - EASA Form one certificate
 - Component and Maintenance manual
- GPI manufactures with a PART 21 certification to insure best quality product
- Most of GPI's nets have been approved on Independent test bench

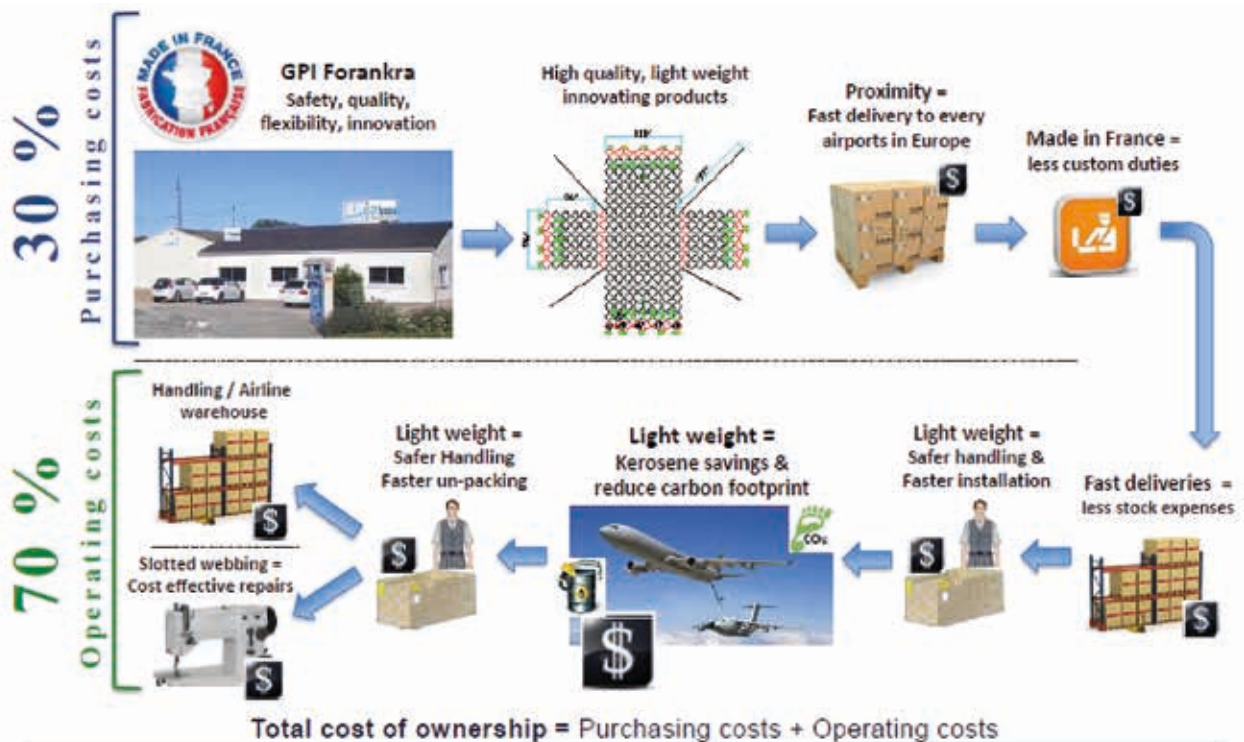
>> REDUCE OPERATING COSTS BY WEIGHT SAVING :

- Kerosene saving
- Reduce CO2 emission
- Improve ratio "total cost of ownership" / "cargo net weight"
- Improve handler's working conditions

PURCHASING & OPERATING COSTS

Using GPI's light weight nets offers to AIRLINES the opportunity to make huge savings in operating costs.

GPI'S NET REDUCE YOUR OPERATING COSTS

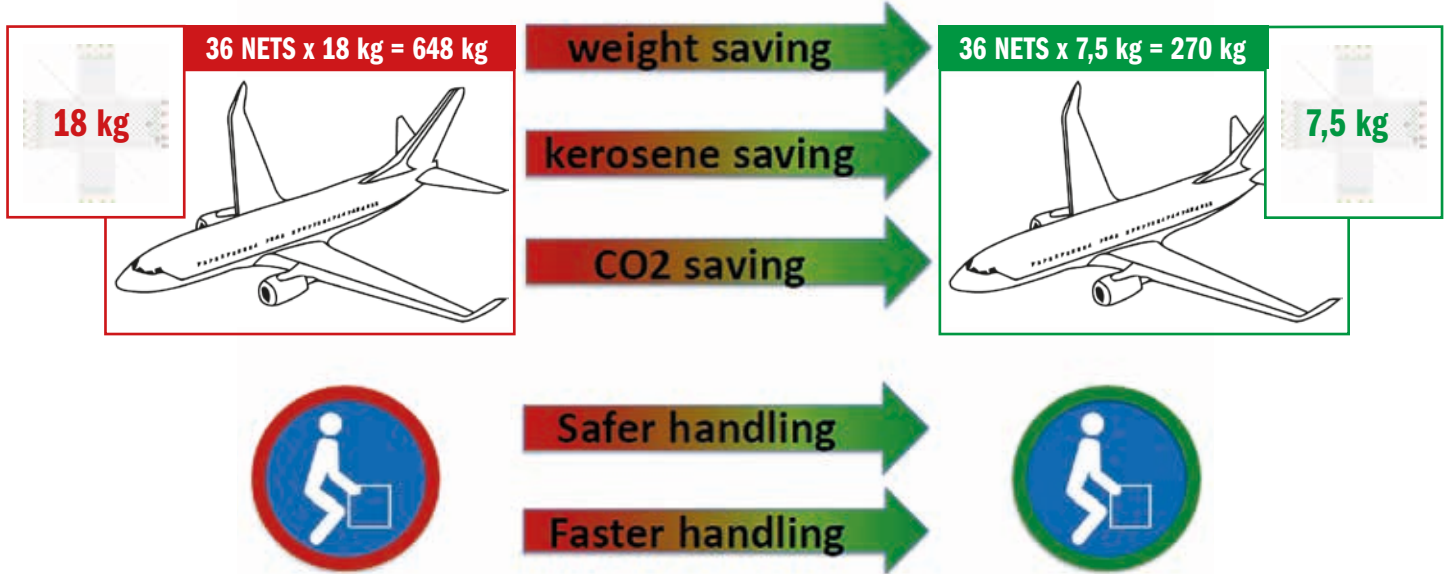


GPI LIGHT WEIGHT NETS

« STANDARD » POLYESTER NETS

GPI LIGHT WEIGHT NETS

Weight calculated on basis of 36 pallets in the airplane



LESS WEIGHT = LESS FUEL = LESS EMISSIONS

« -1 KG » = « -50 LITERS / YEAR »

A 1 kg saving weight on each of the 573 aircrafts in operation, results in an annual 76 ton reduction of CO² emissions.

(source : AF/KLM CRS report 2012)

Kerosene = 2,97 USD / US gallon

-> 0,78 USD / liter

(source : IATA January 2014)

1 KG = 50 LITERS = 39 USD / YEAR

50 LITERS = 125 KG CO²

1 kg kerosene = 1,26 liters of kerosene = 3,16 kg CO²

(source : IATA 2014)



LIGHT WEIGHT NET EXTRA RANGE

Net to secure your cargo on air cargo pallet.

All components and construction of the pallet net meet the requirements of **IATA standard specification 50/1 and 50/2.**

Conform to NAS 3610 and approved ETSO/TSO C90c.

EASA form 1 certificate / Component and Maintenance Manual (CMM)

Made of polyester "slot" webbing 13mm, with mesh type 250 x 250 mm knotless.

LASHING LINE	4 lashing lines
TENSIONNING	24 adjusting hooks
FITTING	18 double studs fittings (5000 lbs) ISO 9788, all drilled for permanent fixture with 3 mm hole
MARKING	2 central placards size 300 x 150 mm with net size, maximum gross weight and tare weight

13 mm Polyester webbing



Tensioning hook



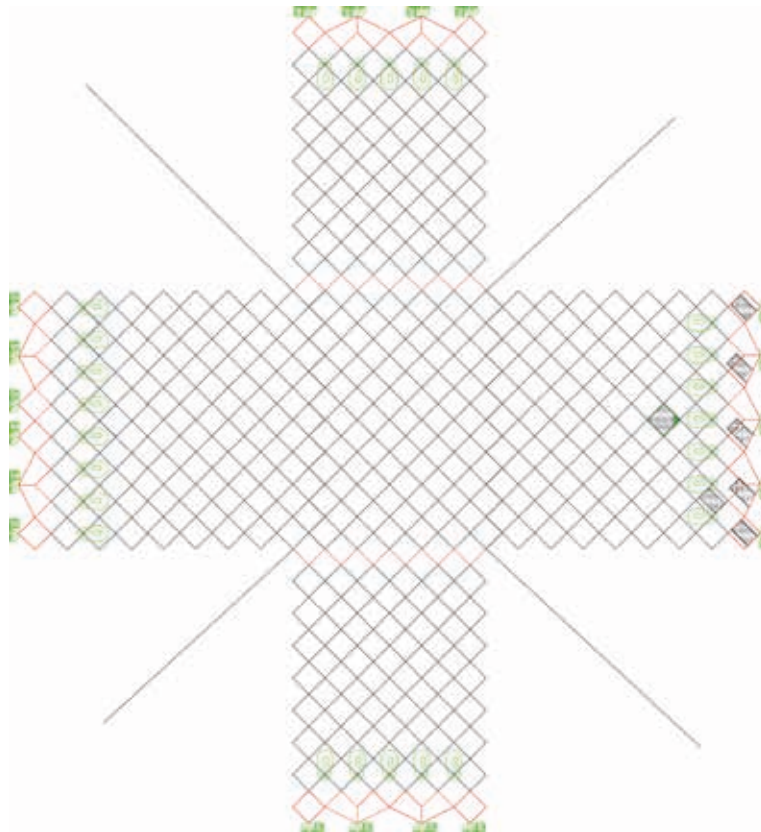
Double stud



Permanent fixture



Central placard



OPTIONS

Company logo on central placard

Light weight ergonomic hook



ODLN placard



LIGHT WEIGHT NET EXTRA RANGE

PMC/PAG CARGO NET

P/N	2M2N-B2-118-30	2M2N-B2-108-30	2M2N-B2-096-30	2M2N-B2-080-30	2M2N-B2-064-30
DIMENSIONS	88/96 x 125 x 118"	88/96 x 125 x 108"	88/96 x 125 x 096"	88/96 x 125 x 80"	88/96 x 125 x 64"
HEIGHT	118"	108"	96"	80"	64"
WEIGHT	11,5 kg	10,5 kg	9,5 kg	9 kg	8,5 kg

PLA CARGO NET

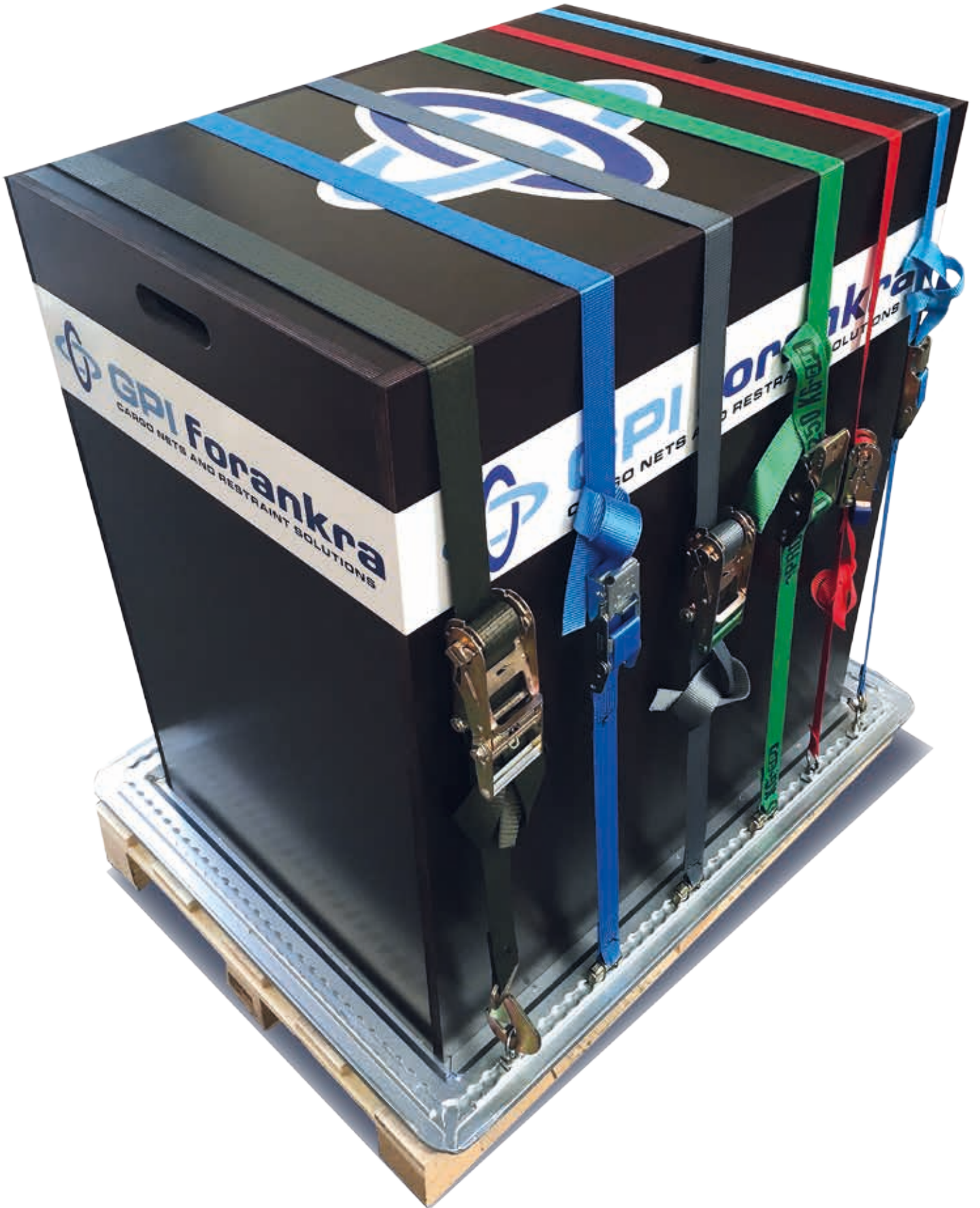
P/N	2L3N-064-B1-21	2L3N-064-B1-22
DIMENSIONS	60,4 x 125 x 64"	60,4 x 125 x 80-90"
HEIGHT	64"	80"
WEIGHT	9,3 kg	10 kg

PKC CARGO NET

P/N	2K3N-064-B1-01	2K3N-064-B1-02	2K3N-064-B1-03
DIMENSIONS	60,4 x 61,5 x 64"	60,4 x 61,5 x 80"	60,4 x 61,5 x 46"
HEIGHT	64"	80"	46"
WEIGHT	6,3 kg	7 kg	6 kg

PGA/PGF CARGO NET

P/N	2G1N-096-R2-10	2G1N-096-R2-11	2G1N-096-R2-12
DIMENSIONS	96 x 238,5 x 118"	96 x 238,5 x 108"	96 x 238,5 x 96"
HEIGHT	118"	108"	96"
WEIGHT	28 kg	26 kg	24 kg



TIE DOWN STRAP ETSO C-172

New ETSO C-172 Tie down straps are both a quality management challenge and a technical challenge.

From 1st January 2016, the use of non-ETSO approved straps shall be discontinued. Only TSO/ETSO approved straps are allowed for tie-down (*source : IATA ULD regulations 2016*).

QUALITY CHALLENGE

ETSO C-172 certification introduces new quality management requirements for ULD manufacturers.

>> Manufacturer should be EASA PART 21 Subpart G certified

- GPI Forankra is certified since 1999

>> Tie down straps design should be certified

- GPI Forankra tie down strap design is certified by EASA

>> Quality control: introduction of a production quality management plan including 100 % components traceability and a sample test plan for all products delivered.

- GPI Forankra as a tie down strap quality management plan according to ETSO C-172 in force since 2008.

TECHNICAL CHALLENGE

ETSO C-172 Tie down straps propose the highest technical standards plus a new challenging technical requirement.

>> Existing technical requirements:

- Since 2008, GPI Forankra delivers tie down straps according to ISO 16 049-1 requirement.
 - Tensile strength: confirmed by a test report and a sample test plan
 - Maximum elongation: < 10 % at ultimate rated load
 - Flammability: according to FAR 25.853 requirements

>> New technical requirements:

- ETSO C-172 certification introduces a new cyclic load test.
 - 100 cycles
 - From 0 to 600 kg (for 5000 lbs strap)
 - Frequency: 1,2 Hz +/- 0,2

Test is considered successful if no slippage through tensioning device has been recorded and length has not increased by more than 3 % of its original length.

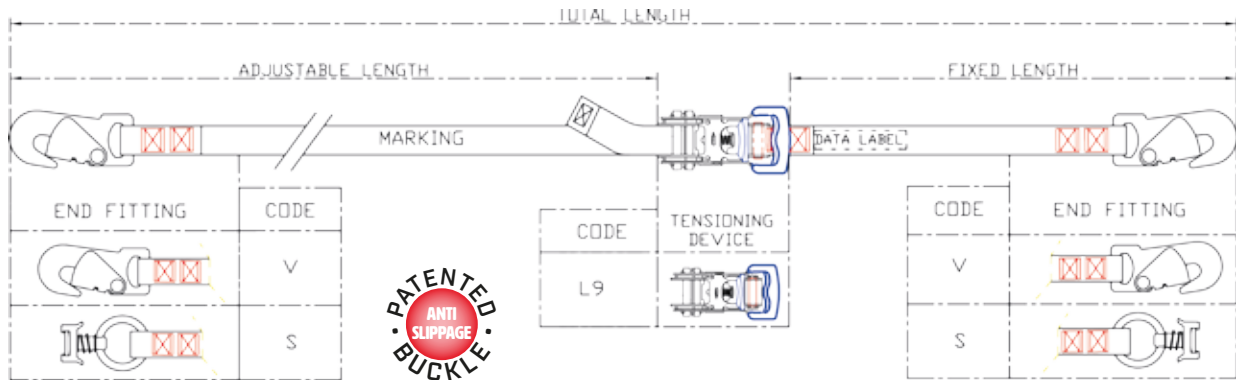
« ABS » TIE DOWN STRAP AVANTAGES

- >> **Increased safety of people and cargo aircraft**
- >> **Payload cargo secured throughout transport**
- >> **Easy to use**
- >> **Process of use identical to previous version -> no need of workers training**
- >> **« State of the art » product**
- >> **French made & patented solution**

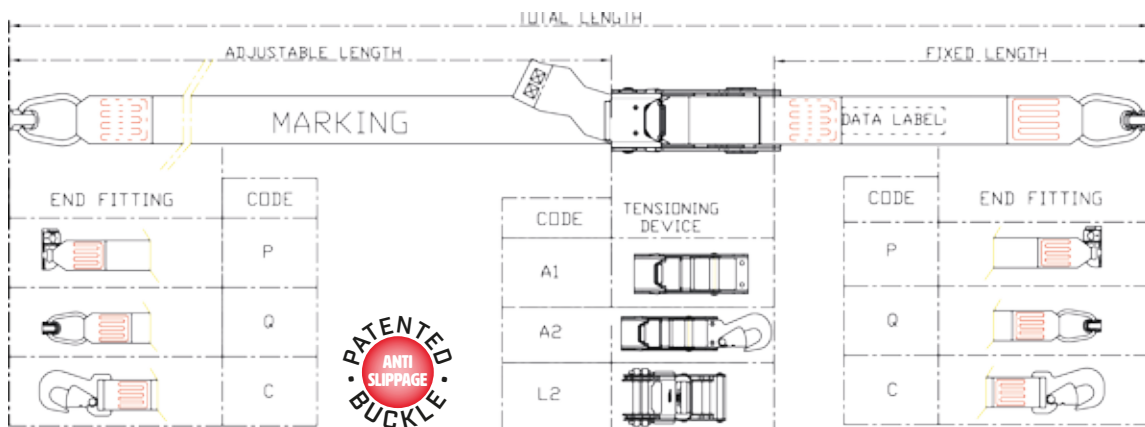


TIE DOWN STRAP ETSO C-172

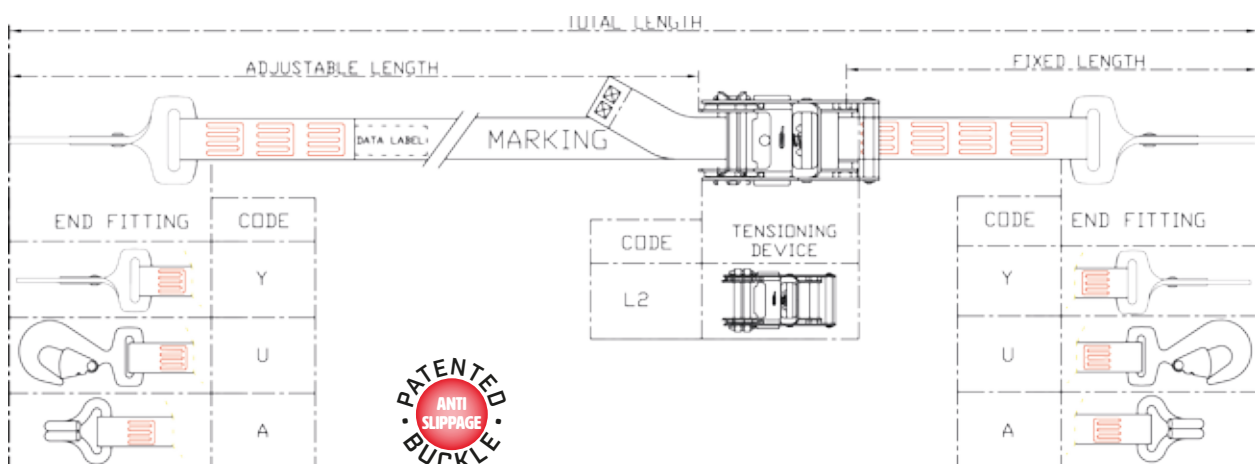
SLT range - 750 KG / 1600 LBS



ST range - 2250 KG / 5000 LBS



SHT range - 4450 KG / 10 000 LBS

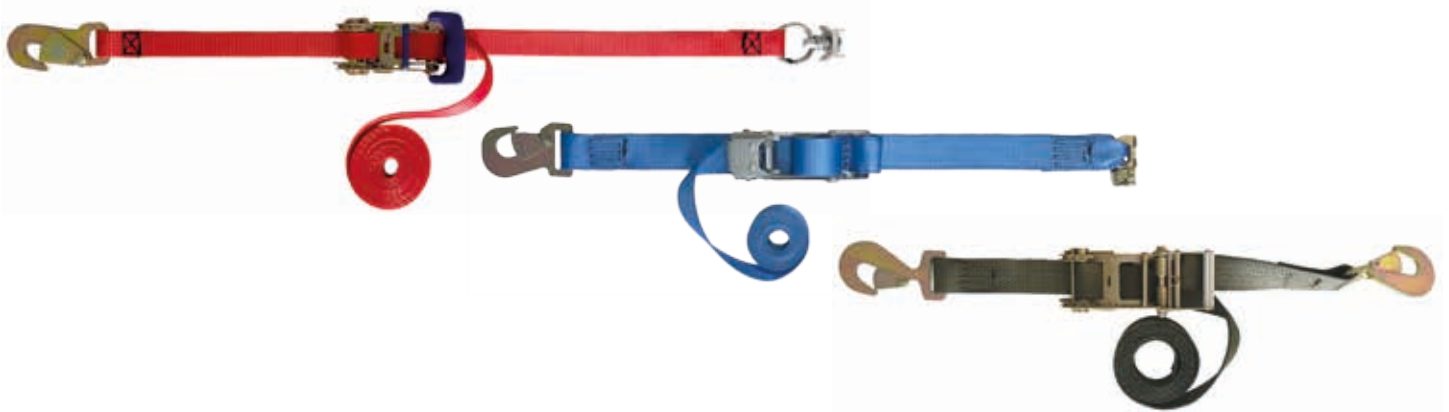


TIE DOWN STRAP ETSO C-172



TECHNICAL SPECIFICATIONS

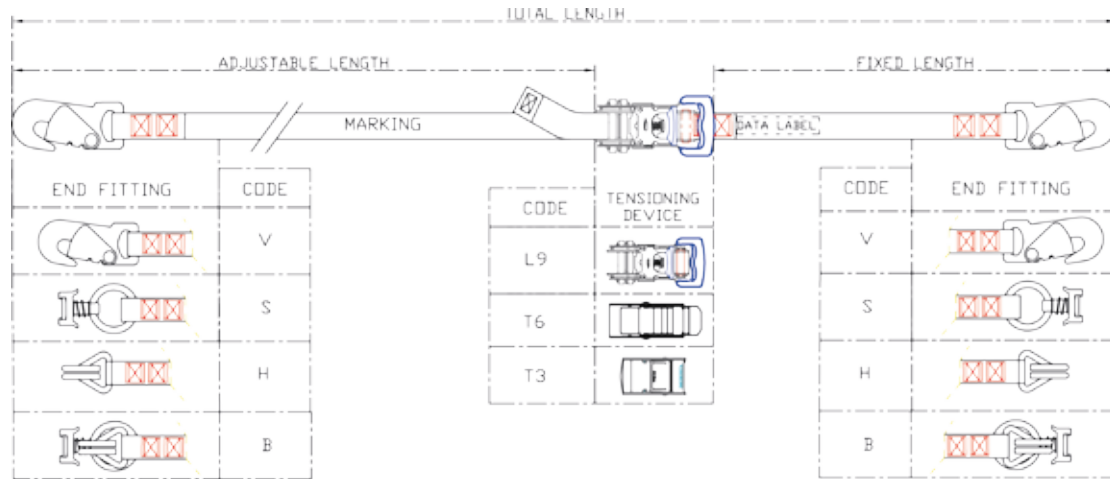
RANGE	SLT	ST	SHT
DESCRIPTION	High quality tie down strap to secure your cargo on air cargo pallet and in aircraft structure		
CERTIFICATION	EASA Certified ETSO C172 - Delivered with EASA FORM ONE certificate		
ULTIMATE SERVICE LOAD	750 kg / 1600 lbs	2250 kg / 5000 lbs	4450 kg / 10 000 lbs
TOTAL LENGTH	Standard: 6, 9, 12 meters - Other length on request		
FIXED LENGTH	Standard: 1 meter - Other length on request		
WEBBING	Polyester - 25 mm width	Polyester - 45 mm width	Polyester - 50 mm width
COLOR	Standard: white, blue, red - Other color on request		
MARKING	On request		
END FITTING	S = Single stud V = Flat snap hook	P = Double stud C = Flat snap hook Q = Double stud with ring	Y = Twisted snap hook U = Flat snap hook A = Double J hook
TENSIONING DEVICE	L9 = Ratchet buckle	A1 = Over center buckle A2 = Over center buckle + hook L2 = Ratchet buckle	L2 = Ratchet buckle
LIFE LIMIT	4 years	3 years	5 years



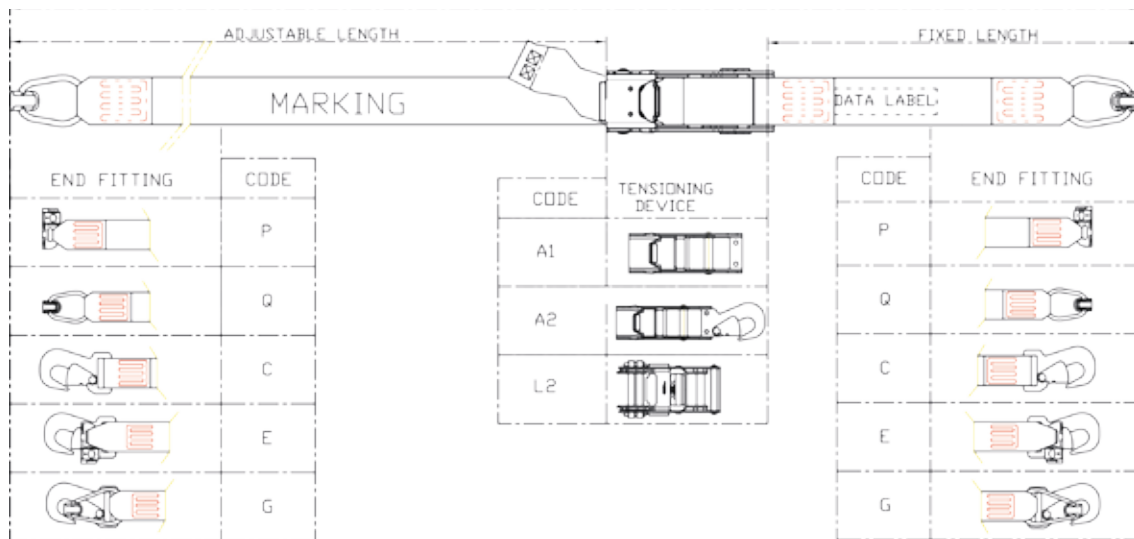
All our references pages 37 - 39.

TIE DOWN STRAP ISO 16049-1

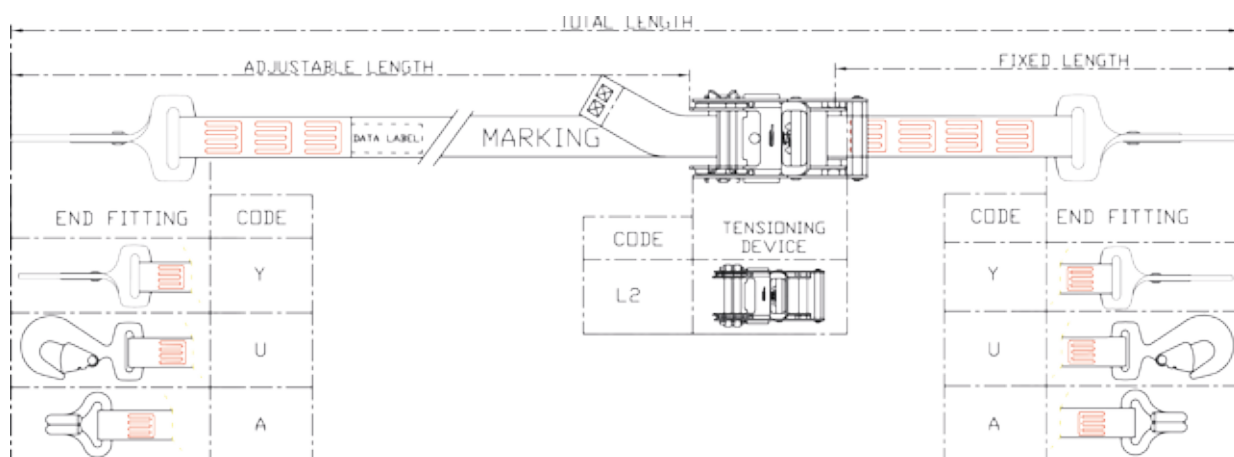
1550 KG / 3500 LBS



2250 KG / 5000 LBS



4450 KG / 10 000 LBS

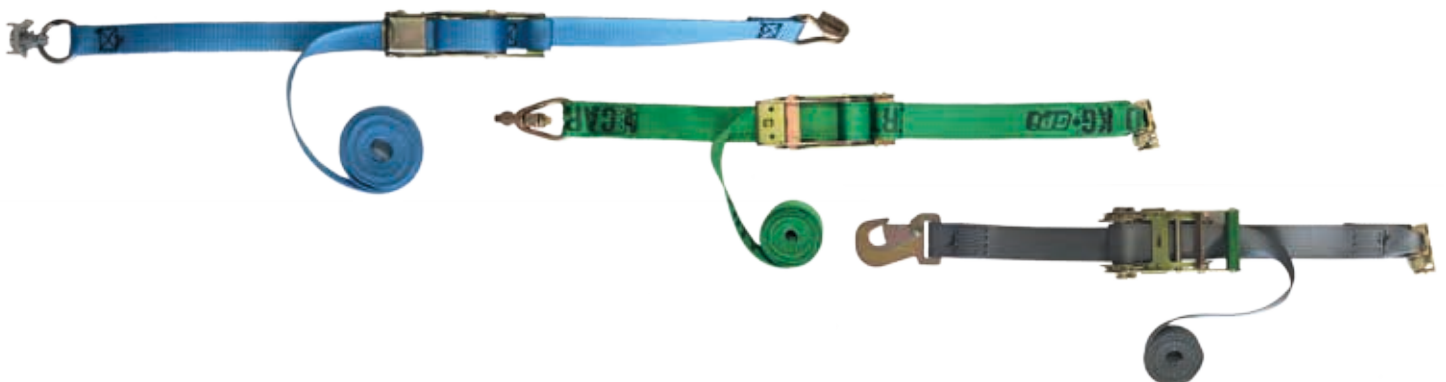


TIE DOWN STRAP ISO 16049-1



TECHNICAL SPECIFICATIONS

RANGE	SL	SI	SH
DESCRIPTION	High quality tie down strap designed to secure your cargo on air cargo pallet and in aircraft structure		
CONFORMITY	Conform ISO 16049-1		
ULTIMATE SERVICE LOAD	1550 kg / 3500 lbs	2250 kg / 5000 lbs	4450 kg / 10 000 lbs
TOTAL LENGTH	All length possible		
FIXED LENGTH	Upon request		
WEBBING	Polyester - 25 mm width	Polyester - 45 mm width	Polyester - 50 mm width
COLOR	All color of webbing possible upon request		
MARKING	All marking possible upon request		
END FITTING	S = Single stud H = Double J hook V = Flat snap hook B = Double J hook + single stud	P = Double stud Q = Double stud with ring C = Flat hook E = Flat hook + double stud G = Flat hook + double stud with ring	Y = Twisted snap hook U = Flat snap hook A = Double J hook
TENSIONING DEVICE	L9 = Ratchet buckle T6 = Over center buckle T3 = Cam buckle	T1 = Over center buckle L2 = Ratchet buckle	L2 = Ratchet buckle
DATA LABEL	The strap is equipped with one data label according to ISO 16049-1 requirement		
LIFESPAN	3 years		
ELONGATION	< 10 % at ultimate service load		
BURNING RATE	≤ 63 mm per min. / ≤ 2,5 inch per min.		

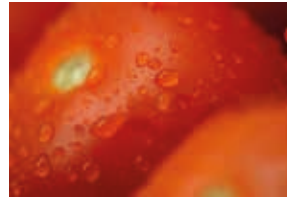


All our references pages 37 - 39.

THERMAL COVER FOR SEMI FRESH & PHARMATICAL CARGO

NSN: TBD
P/N: TCP-M-B1-XXX
Secure transport of semi fresh & pharmaceutical product
Compliance: FAR 25 requirements
Easy to install / operate

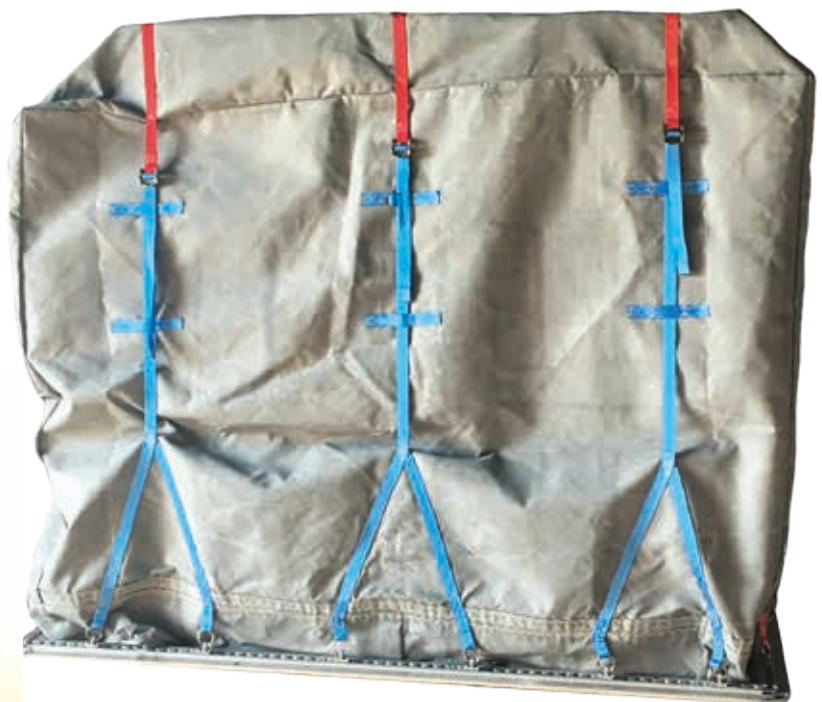
DIMENSIONS: any pallet size - any height
Water proof fabric
Closing by velcro
5 sides or 6 sides covers



FIRE CONTAINMENT COVER FOR FLAMMABLE CARGO

NSN: 4210-14-563-7900
P/N: FCB-096-50
Secure transport of flammable product
Compliance: FAR/CS 25 cargo class F
Easy to install / operate

DIMENSIONS: any pallet size - any height
TIE DOWN FITTINGS: Single studs or hooks
Fire extinguisher holes included



SPARE PARTS

VEHICULE STRAP - CONFORM FAR25.853

P/N	SR2PL5-400
ULTIMATE LOAD	2250 kg / 5000 lbs
DIMENSIONS	Ajustable to every wheel dimensions



CARGO STOPPER - CONFORM SAE AS6022

P/N	STP 120
ULTIMATE LOAD	2250 kg / 5000 lbs
DIAMETER	1200 mm



FITTING - CONFORM ISO

P/N	FS 700 - Single stud with ring	FS 2000 AP - Double stud with ring
ULTIMATE LOAD	2200 kg / 4850 lbs	3300 kg / 7300 lbs
CONFORM	ISO 7166	ISO 9788



SECURITY SEAL - CONFORM FAR25.853

P/N	PLSCC15-250	PLSCC35-250	PLSCC50-250
DIAMETER	1,5 mm	3,5 mm	5 mm
LENGTH	250 mm		



All our references pages 37 - 39.

ULTRA LIGHT SAFETY BELT SYSTEMS



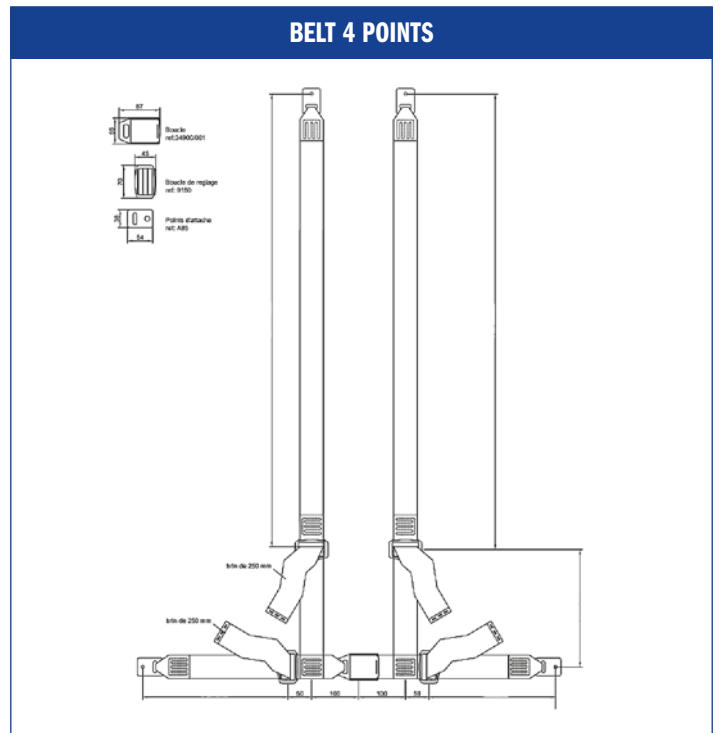
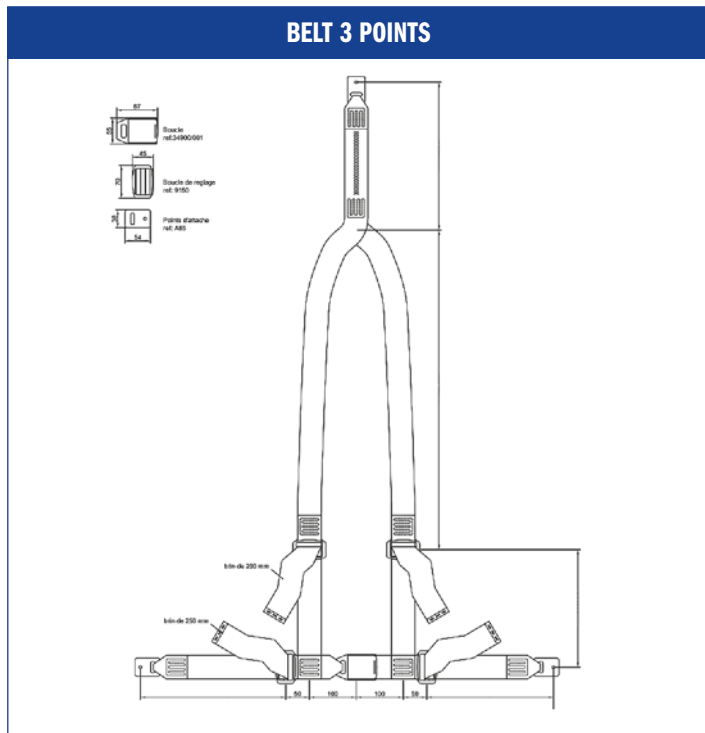
From aerospace to microlight.

HIGHT QUALITY & SECURITY

GPI Forankra restraint solutions have been developed to fulfill the most demanding and safety requirements. Manufactured in France by experienced workers, our products offer the highest quality.

ULTRA-LIGHT WEIGHT

For many years, GPI Forankra focuses its R&D efforts on light weight textile restraint solutions for aerospace industry.



STRAP COLOR	Black, red, grey
BUCKLE	Plane or plastic type
HARDWARE	Plate or ring
MARKING	We can make any marking: compagny name, logo... black and white, color...



Plane type



Plate



Ring

OEM

Webbings.....	20
Seat tracks	21
Buckles	22-24
Quick Change fitting	25
Custom made belly nets	26



GPI holds in stock a wide range of polyester webbing in different width, color and breaking strengths.

All of them comply with FAR 25 appendix F, and are fully approved for use in an airplane. In addition to our standard range, we may supply almost any other dimensions, breaking strength or color.

SLOT WEBBINGS

P/N	723/13 B	723/13 R	723/18	723/18 R
COLORS	White			
WIDTH	13 mm	15 mm	18 mm	18 mm
MATERIAL	PES			
ULTIMATE LOAD	1250 daN	1500 daN	2000 daN	2000 daN

WEBBINGS - 20/45 mm

P/N	1163/20	84 044/25-N0	20 319/25	98 323/25	0303007/45
CONFORMITY WITH	ASNA 3573-5919	ASNA 3573-5926	-	ASNA 3573-5925	-
COLORS	Black, grey	Black	White, blue, red, grey, green		
WIDTH	20 mm	25 mm	25 mm	25 mm	45 mm
MATERIAL	PES				
ULTIMATE LOAD	1250 daN	1500 daN	2000 daN	2000 daN	3100 daN

WEBBINGS - 48/75 mm

P/N	84 015/50-N0	85 017/50	88 041/50	93 168/50	6592/60	6551/75
COLORS	Black	Red, blue	White, blue, red, grey, green		Blue, orange, yellow	
WIDTH	48 mm	48 mm	50 mm	50 mm	60 mm	75 mm
MATERIAL	PES					
ULTIMATE LOAD	2500 daN	2500 daN	5000 daN	7500 daN	9000 daN	15 000 daN

TARPOLIN

P/N	32 261 A	32 262 J
COLORS	Grey	Yellow
MATERIAL	PES	

RASCHEL NETTING

P/N	FX 999
COLORS	Black
MATERIAL	Nylon

VELCRO

P/N	AP 800/24-M	AP 800/24-F
CONFORMITY WITH	ASNA 3546-1875	ASNA 3546-1825
COLORS	White	
WIDTH	25 mm	

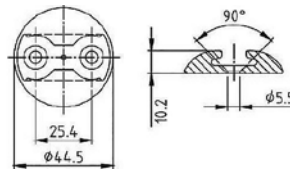
TUBULAR WEBBING

P/N	724/11	724/15
COLORS	White	White, blue
WIDTH	11 mm	15 mm
MATERIAL	PES	
ULTIMATE LOAD	1600 daN	1800 daN

All our references pages 37 - 39.

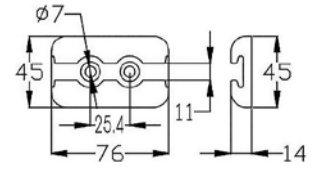
SEAT TRACK

ANCHOR PLATE



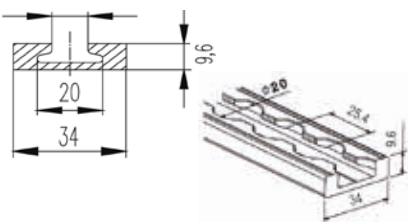
P/N	40000-11	ULTIMATE LOAD	1800 daN
MATERIAL	Aluminium	WEIGHT	20 g

DOUBLE ANCHOR PLATE



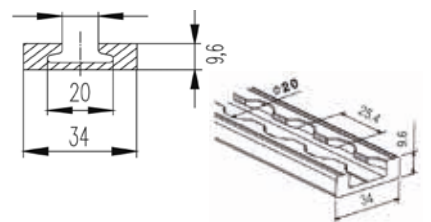
P/N	520 197-40	ULTIMATE LOAD	2500 daN
MATERIAL	Aluminium	WEIGHT	55 g

SEAT TRACKS



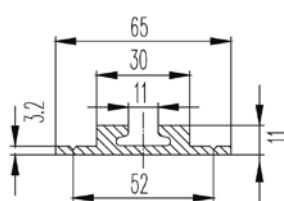
P/N	40 456-10	ULTIMATE LOAD	2000 daN
MATERIAL	Aluminium 7075	WEIGHT	0,57 kg/m

SEAT TRACKS



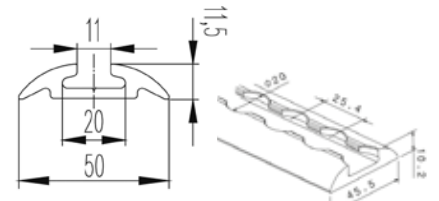
P/N	40 467-11	ULTIMATE LOAD	2700 daN
MATERIAL	Aluminium 7075	WEIGHT	0,9 kg/m

SEAT TRACKS



P/N	40 456-51	ULTIMATE LOAD	2000 daN
MATERIAL	Aluminium 6061	WEIGHT	0,92 kg/m


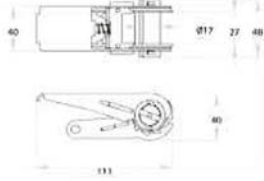
SEAT TRACKS



P/N	40 986-2000	ULTIMATE LOAD	1800 daN
MATERIAL	Aluminium 7075	WEIGHT	0,7 kg/m

RATCHET BUCKLES

P/N : 44 232-10


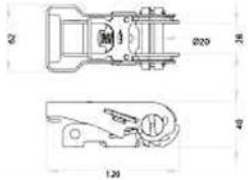
WEBBING	25 mm	ULTIMATE LOAD	750 daN
MATERIAL	Steel - Zinc-plated	WEIGHT	205 g

P/N : 44 232-10 SS




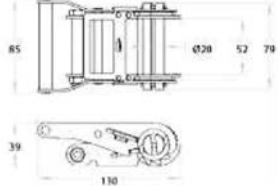

WEBBING	25 mm	ULTIMATE LOAD	750 daN
MATERIAL	Stainless steel	WEIGHT	230 g

P/N : 43 320-12


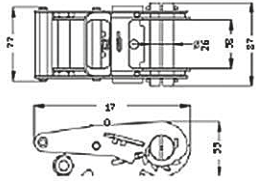
WEBBING	25 mm	ULTIMATE LOAD	2000 daN
MATERIAL	Steel - Zinc-plated	WEIGHT	350 g

P/N : 46 405-10


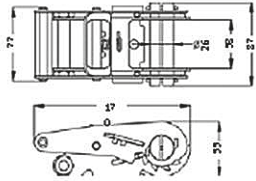
WEBBING	50 mm	ULTIMATE LOAD	5000 daN
MATERIAL	Steel - Zinc-plated	WEIGHT	525 g

P/N : 44 627-10


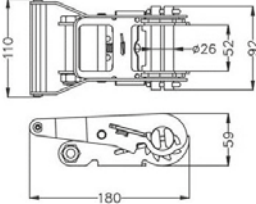
WEBBING	50 mm	ULTIMATE LOAD	5000 daN
MATERIAL	Steel - Zinc-plated	WEIGHT	1005 g

P/N : 44 627-10


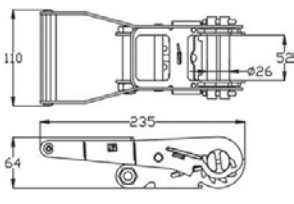
WEBBING	50 mm	ULTIMATE LOAD	5000 daN
MATERIAL	Steel Army green	WEIGHT	1005 g

P/N : 47 105-17

WEBBING	50 mm	ULTIMATE LOAD	5000 daN
MATERIAL	Stainless steel	WEIGHT	1065 g

P/N : 44 587-19

WEBBING	50 mm	ULTIMATE LOAD	5000 daN
MATERIAL	Steel - Zinc-plated	WEIGHT	1070 g

BUCKLE - P/N : 34900/001




		ULTIMATE LOAD	1300 daN
MATERIAL	Nickel - Zinc plated	WEIGHT	140 g

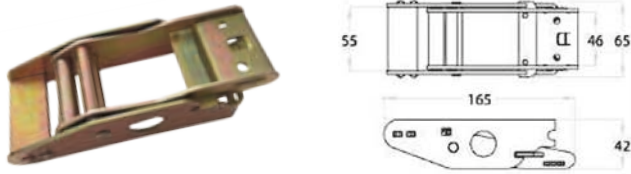
SNAP LATCH - P/N : 45 387-10




WEBBING	25 mm	ULTIMATE LOAD	680 daN
MATERIAL	Steel - Zinc-plated	WEIGHT	77 g

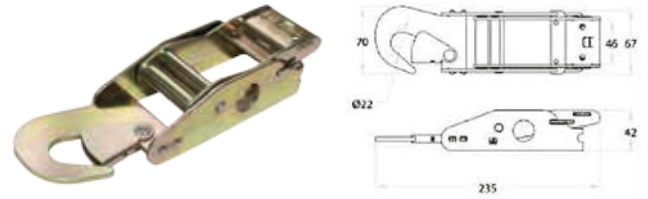
OVERCENTER BUCKLES

P/N : 44 639-12



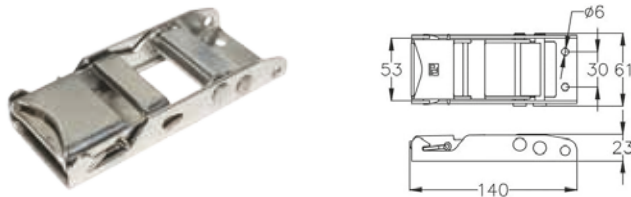
WEBBING	45 mm	ULTIMATE LOAD	3100 daN
MATERIAL	Steel - Zinc-plated	WEIGHT	580 g

P/N : 44 639-10



WEBBING	45 mm	ULTIMATE LOAD	3100 daN
MATERIAL	Steel - Zinc-plated	WEIGHT	685 g

P/N : 47 800-10



WEBBING	45 mm	ULTIMATE LOAD	2250 daN
MATERIAL	Steel - Zinc-plated	WEIGHT	320 g

P/N : 48 857-10



WEBBING	45 mm	ULTIMATE LOAD	2250 daN
MATERIAL	Zinc-plated	WEIGHT	560 g

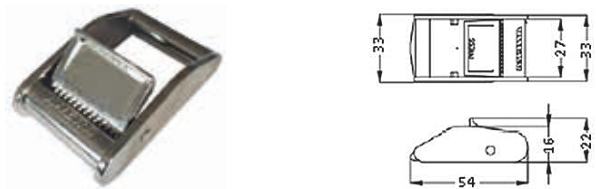
CAM BUCKLES

P/N : 41 030-17



WEBBING	25 mm	ULTIMATE LOAD	250 daN
MATERIAL	Steel - Zinc-plated	WEIGHT	60 g

P/N : 41 030-10



WEBBING	25 mm	ULTIMATE LOAD	250 daN
MATERIAL	Steel	WEIGHT	60 g

P/N : 42 195-10



WEBBING	45 mm	ULTIMATE LOAD	700 daN
MATERIAL	Steel - Zinc-plated	WEIGHT	120 g

P/N : 48 343-10



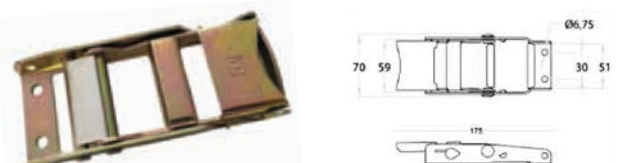
WEBBING	35 mm	ULTIMATE LOAD	700 daN
MATERIAL	Steel	WEIGHT	115 g

P/N : 40 880-19



WEBBING	45 mm	ULTIMATE LOAD	700 daN
MATERIAL	Steel - Zinc-plated	WEIGHT	120 g

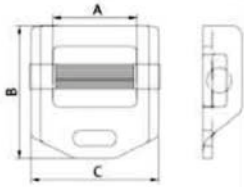
P/N : 46 067-10



WEBBING	50 mm	ULTIMATE LOAD	800 daN
MATERIAL	Stainless steel	WEIGHT	240 g

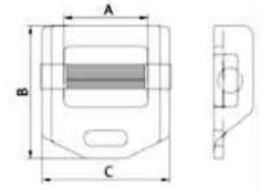
SLIDES BUCKLES

P/N : 8023/25



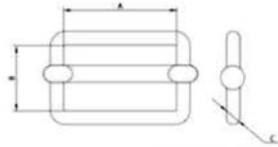
A	B	C	ULTIMATE LOAD	800 daN
26	45	41	WEIGHT	45 g

P/N : 8023/50



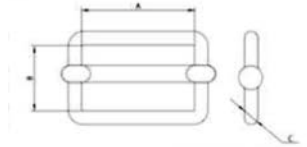
A	B	C	ULTIMATE LOAD	900 daN
51	53	68	WEIGHT	110 g

P/N : 34201/251



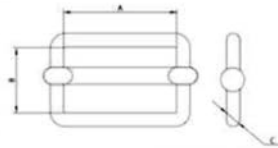
A	B	C	ULTIMATE LOAD	50 daN
25	14	2,4	WEIGHT	5 g

P/N : 34201/281



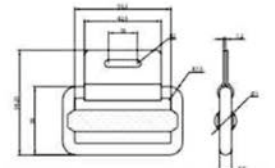
A	B	C	ULTIMATE LOAD	50 daN
28	15	2,7	WEIGHT	8 g

P/N : 34209/271



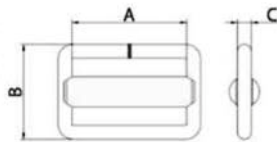
A	B	C	ULTIMATE LOAD	150 daN
27	10	3,9	WEIGHT	14 g

P/N : 34238/154



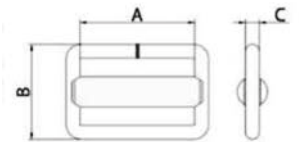
WEBBING	50 mm	ULTIMATE LOAD	800 daN
MATERIAL	Steel - Zinc-plated	WEIGHT	115 g

P/N : 34238/045



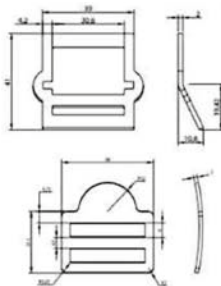
A	B	C	ULTIMATE LOAD	750 daN
45	25	5,9	WEIGHT	71 g

P/N : 34238/054



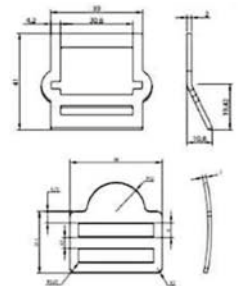
A	B	C	ULTIMATE LOAD	800 daN
54	25	6,4	WEIGHT	85 g

BUCKLE



	Female - P/N : 300 B	Male - P/N : 300 C
WEBBING	30 mm	
MATERIAL	Steel - Zinc plated	Steel - Zinc plated
ULTIMATE LOAD	14 g	11 g
WEIGHT	150 daN	

BUCKLE

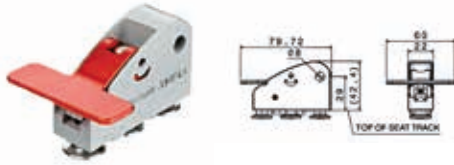


	Female - P/N : 500 B	Male - P/N : 500 C
WEBBING	50 mm	
MATERIAL	Steel - Zinc plated	Steel - Zinc plated
ULTIMATE LOAD	36 g	23 g
WEIGHT	300 daN	

PANEL AND STANCHION FITTINGS – QUICK CHANGE

P/N : 110095-10

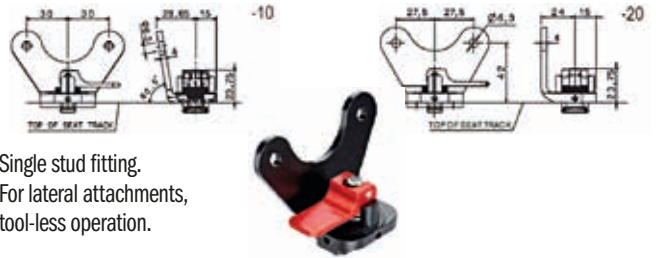
Triple stud fitting
For stretchers and similar applications, tool-less operation.



MATERIAL	CRES and aluminium	WEIGHT	172 g
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P/N : 110099- 10

Single stud fitting.
For lateral attachments, tool-less operation.



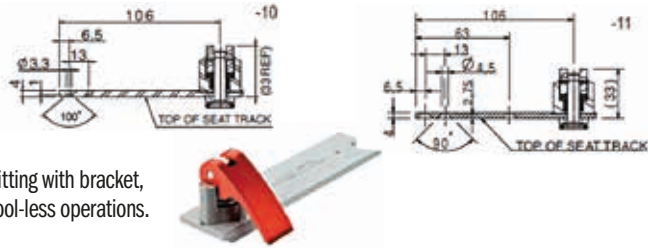
MATERIAL	CRES and aluminium	WEIGHT	84 g / 86 g
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P/N : 110099- 20

P/N : 110088- 10

P/N : 110088- 11

Fitting with bracket, tool-less operations.



MATERIAL	CRES and aluminium	WEIGHT	87 g
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P/N : 110088- 20

P/N : 110088- 21

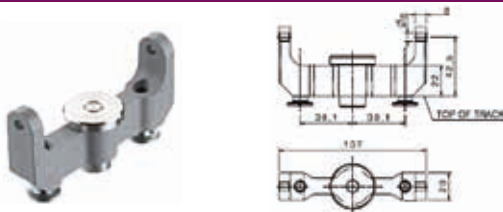
Fitting with bracket, tool-less operations.



MATERIAL	CRES and aluminium	WEIGHT	77 g
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P/N : 110068- 10

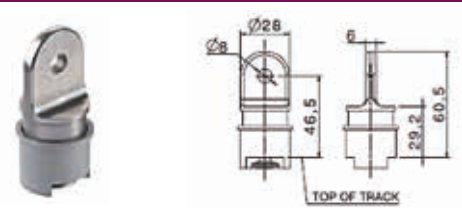
Double stud fitting
Quick connect / disconnect function (tool-less), plunger spring-loaded.



BODY	Aluminium anodized	STUD AND PLUNGER	CRES passivated
ULTIMATE LOAD	FX > 27.00 kN 6000 lbs	FY > 10.00 kN 2250 lbs	FZ > 20.00 kN 4500 lbs
WEIGHT	220 g		

P/N : 110068- 10

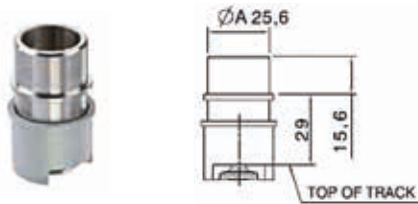
Double stud fitting
Quick connect / disconnect function (tool-less), plunger spring-loaded.



BODY	Aluminium anodized	STUD AND PLUNGER	CRES passivated
ULTIMATE LOAD	FX > 27.00 kN 6000 lbs	FY > 10.00 kN 2250 lbs	FZ > 20.00 kN 4500 lbs
WEIGHT	220 g		

P/N : 110065- 10

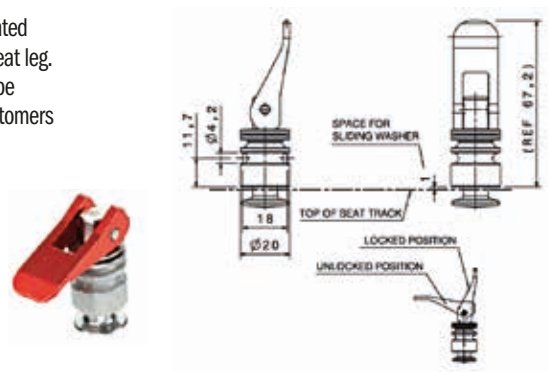
Single stud tube fitting
Quick connect / disconnect function (tool-less), plunger spring-loaded.



RETAINER	Aluminium anodized	BODY AND STUD	CRES passivated
ULTIMATE LOAD	FX > 5.00 kN	FY > 5.00 kN	FZ > 17.78 kN
WEIGHT	130 g		

P/N : 110089- 10

To be incorporated into the front seat leg. Geometry can be adapted to customers requirements.



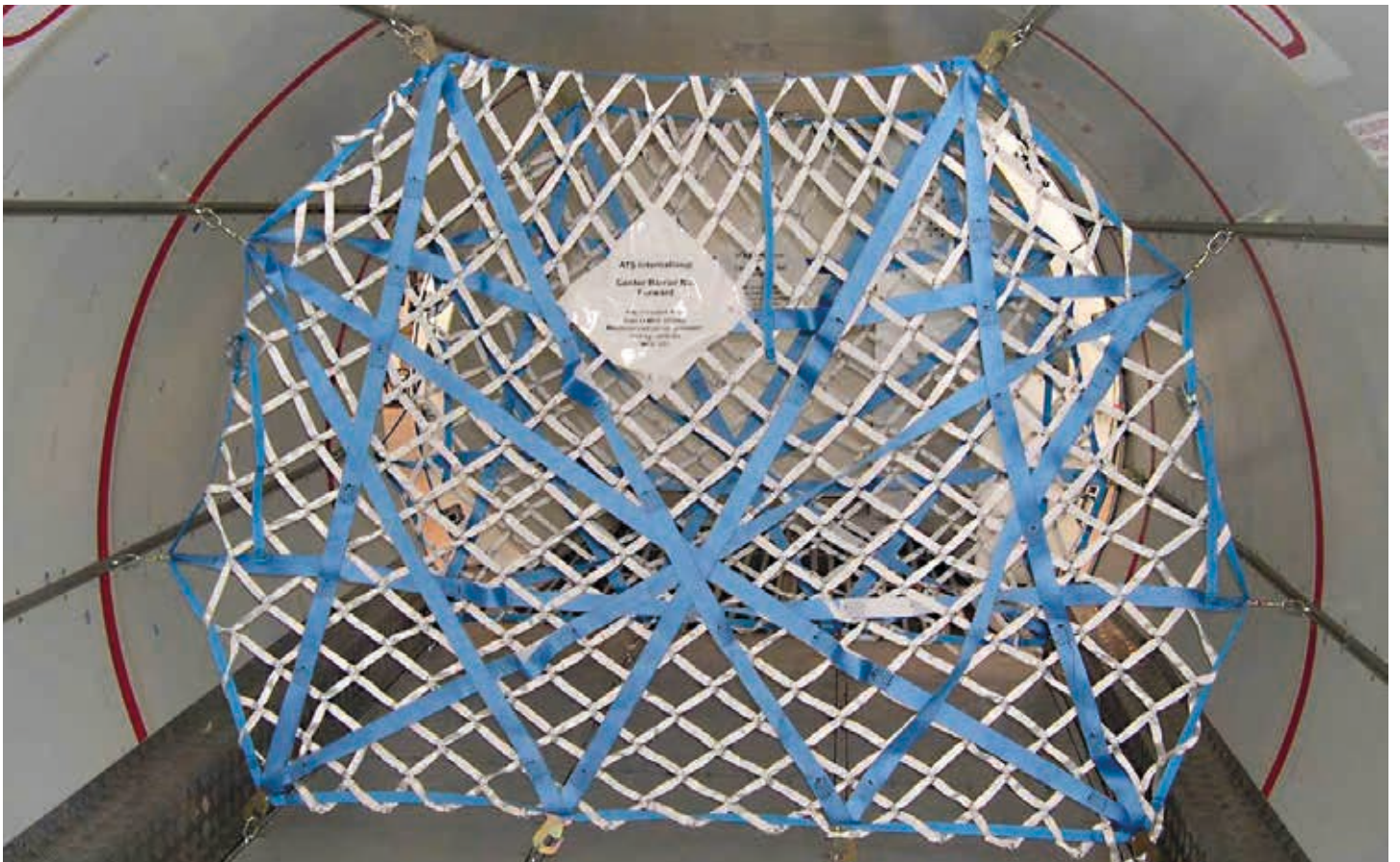
BODY AND LEVER	Aluminium anodized	STUD	CRES passivated
WEIGHT	51 g		

BELLY NET

LUGGAGE NET



9G NET



Military

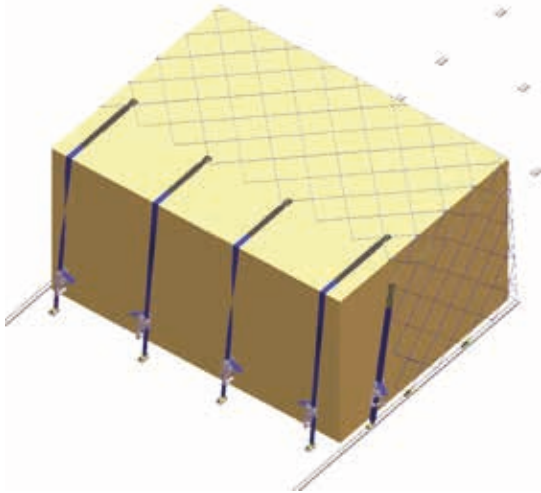
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CARGO SECURING SOLUTION FOR NH-90 HELICOPTERS

CARGO NET + TIE DOWN STRAP

P/N	GP GAM161613
NSN	1670-14-578-9654
DIMENSIONS	1970 x 1500 x 1300 mm
TARE WEIGHT	16 kg / 35 lbs
HEIGHT	Adjustable from 0 to 1300 mm
ULTIMATE SERVICE LOAD	1000 kg
TENSION	6 tie down straps



FLOOR FITTING

NSN : 1670-14-578-9663
P/N : FS 2000 AP
Double stud with ring



TIE DOWN STRAP 2250 KG / 5000 IBS

P/N	SMGGLA04005
NSN	1670-14-578-9659
CONFORMITY	ISO 16 049-1
ULTIMATE SERVICE LOAD	2250 kg / 5000 lbs
AJUSTABLE LENGTH	mini 0,5 m - maxi 4 m
WIDTH	35 mm
WEBBING	High tenacity polyester, FAR 25.853
COLOUR	Military green
TENSIONING DEVICE	Ratchet buckle 35 mm
END FITTING	Double J hook with retainer (both sides)



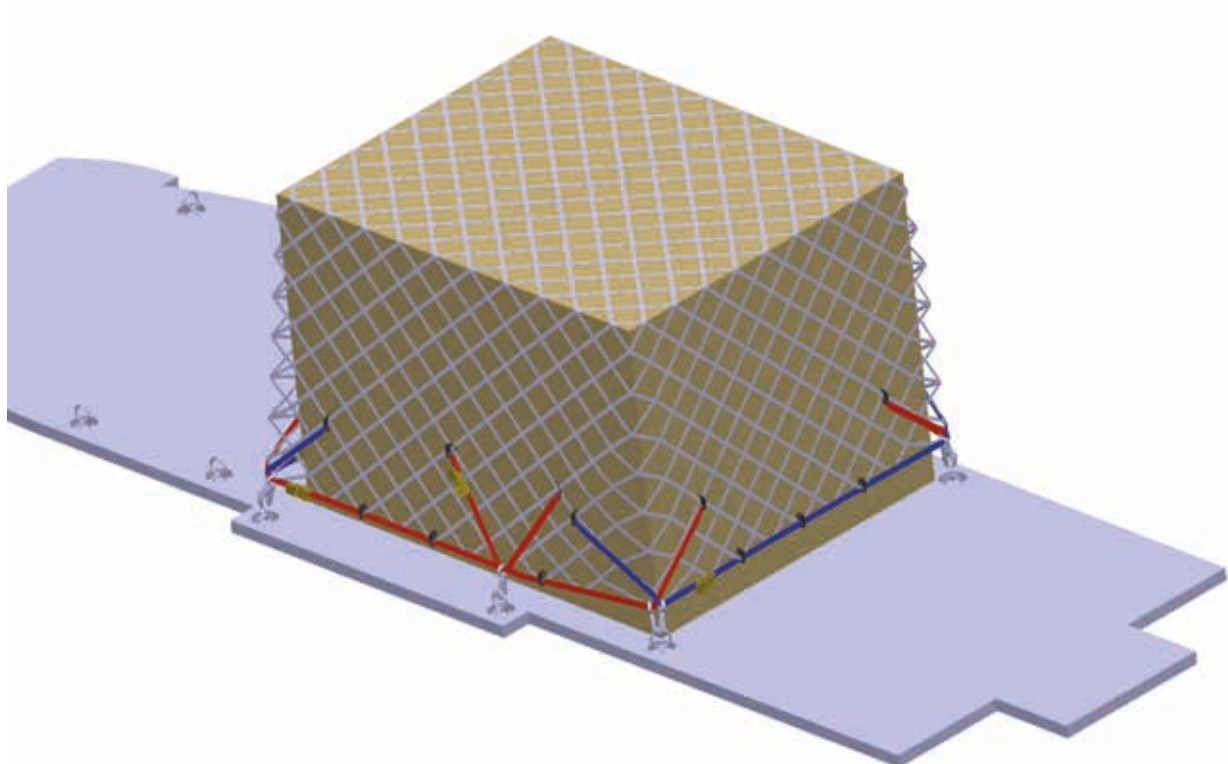
CARGO SECURING SOLUTION FOR SUPER-PUMA AS332 HELICOPTERS

- >> Direct fitment on OEM floor cargo rings
- >> 2 different nets: front & rear cargo compartment
- >> Adjustable to any size and shape of cargo
- >> Total maximum service load: 600kg (300 kg per net)
- >> STC certification n° 10037327
- >> Delivered with EASA Form one



FRONT CARGO COMPARTMENT NET	
Direct fitment on OEM floor attachments	
P/N	GP EUFR225ZA-10
NSN	TBD
DIMENSIONS	1750 x 1840 x 1250 mm
TARE WEIGHT	15 kg / 33 lbs
HEIGHT	Adjustable from 0 to 1250 mm
ULTIMATE SERVICE LOAD	300 kg

REAR CARGO COMPARTMENT NET	
Direct fitment on OEM floor attachments	
P/N	GP EUFR225ZB-10
NSN	TBD
DIMENSIONS	1490 x 1440 x 1250 mm
TARE WEIGHT	15 kg / 33 lbs
HEIGHT	Adjustable from 0 to 1250 mm
ULTIMATE SERVICE LOAD	300 kg



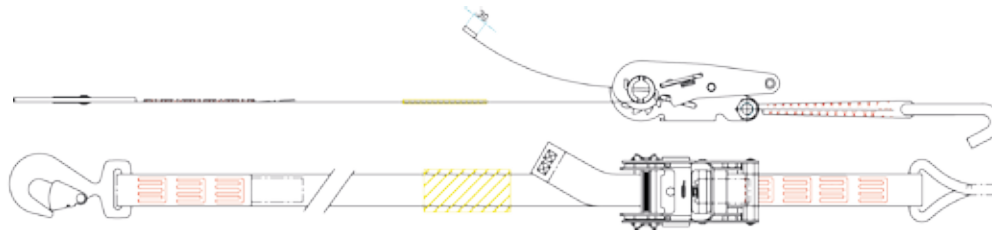
TIE DOWN STRAP ETSO C172



P/N : SLT RANGE



P/N : ST RANGE



P/N : SHT RANGE

RANGE	SLT	ST	SHT
NSN	TBD	TBD	TBD
DESCRIPTION	High quality tie down strap to secure your cargo on air cargo pallet and in aircraft structure		
CERTIFICATION	EASA Certified ETSO C172 - Delivered with EASA FORM ONE certificate		
ULTIMATE SERVICE LOAD	750 kg / 1600 lbs	2250 kg / 5000 lbs	4450 kg / 10 000 lbs
TOTAL LENGTH	Standard: 6, 9, 12 meters - Other length on request		
FIXED LENGTH	Standard: 1 meter - Other length on request		
WEBBING	Polyester - 25 mm width	Polyester - 45 mm width	Polyester - 50 mm width
COLOR	Standard: Military green - Other color on request		
END FITTING	S = Single stud V = Flat snap hook	P = Double stud C = Flat snap hook Q = Double stud with ring	Y = Twisted snap hook U = Flat snap hook A = Double J hook
TENSIONING DEVICE	LE = Ratchet buckle L9 = Ratchet buckle	A1 = Over center buckle	LD = Ratchet buckle
LIFE LIMIT	4 years	3 years	5 years

TIE DOWN STRAP FOR MILITARY AIR-TRANSPORT



P/N : SIPPL206010-AR



P/N : SICOL406000

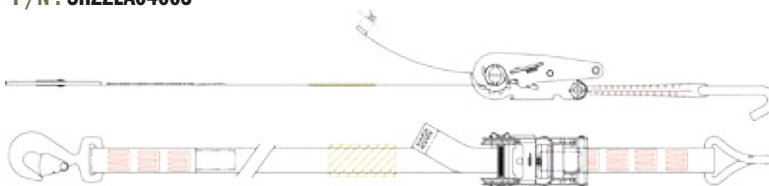


P/N	SIPPL206010-AR	SICOL406000
NSN	3940-14-562-4258	TBD
CONFORMITY	ISO 16 049-1	MIL-PRF-27260C
ULTIMATE SERVICE LOAD	2250 kg / 5000 lbs	
TOTAL LENGTH	Maxi 6 meter	
WIDTH	45 mm	50 mm
WEBBING	High tenacity Polyester FAR 25.853	
COLOR	Military green	White
END FITTING	Flat hook with retainer + double stud fitting (both sides)	Double J hook
TENSIONING DEVICE	Ratchet buckle 45 mm	Ratchet buckle 50 mm
LIFE LIMIT	3 years	-

TIE DOWN STRAP TO SECURE HELICOPTERS ON AIRCRAFT CARRIER



P/N : SHZZLA04003



P/N : SHTZILD07003-MIL

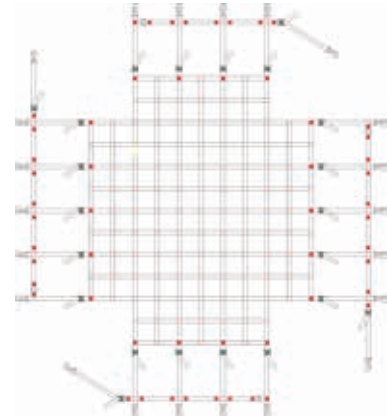


P/N	SHZZLA04003	SHTZILD07003-MIL
NSN	TBD	TBD
CONFORMITY	ISO 16 049-1	
ULTIMATE SERVICE LOAD	5000 kg / 10 000 lbs	
TOTAL LENGTH	Maxi 6 meter	
WIDTH	45 mm	50 mm
WEBBING	High tenacity Polyester FAR 25.853	
COLOR	Most colours available	
END FITTING	Flat hook at each end	
TENSIONING DEVICE	Over center buckle	

TOP & SIDE CARGO NETS FOR 463L / HCU-6 PALLET

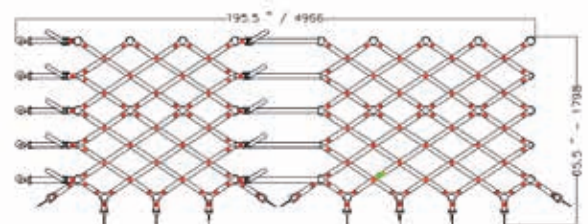
TOP PALLET NET HCU-15/C

P/N	GP AR2015
NSN	1670-14-536-6275
CONFORMITY	MIL-N-27444D
ULTIMATE SERVICE LOAD	4550 kg / 10 000 lbs
DIMENSIONS	185" x 166"
MESH DIMENSIONS	250 x 250 mm
WEBBING	100% Polyester - FAR 25.853 + anti abrasion treatment
COLOR	Yellow sand
TARE WEIGHT	17 kg / 38 lbs



SIDE PALLET NET HCU-7/C

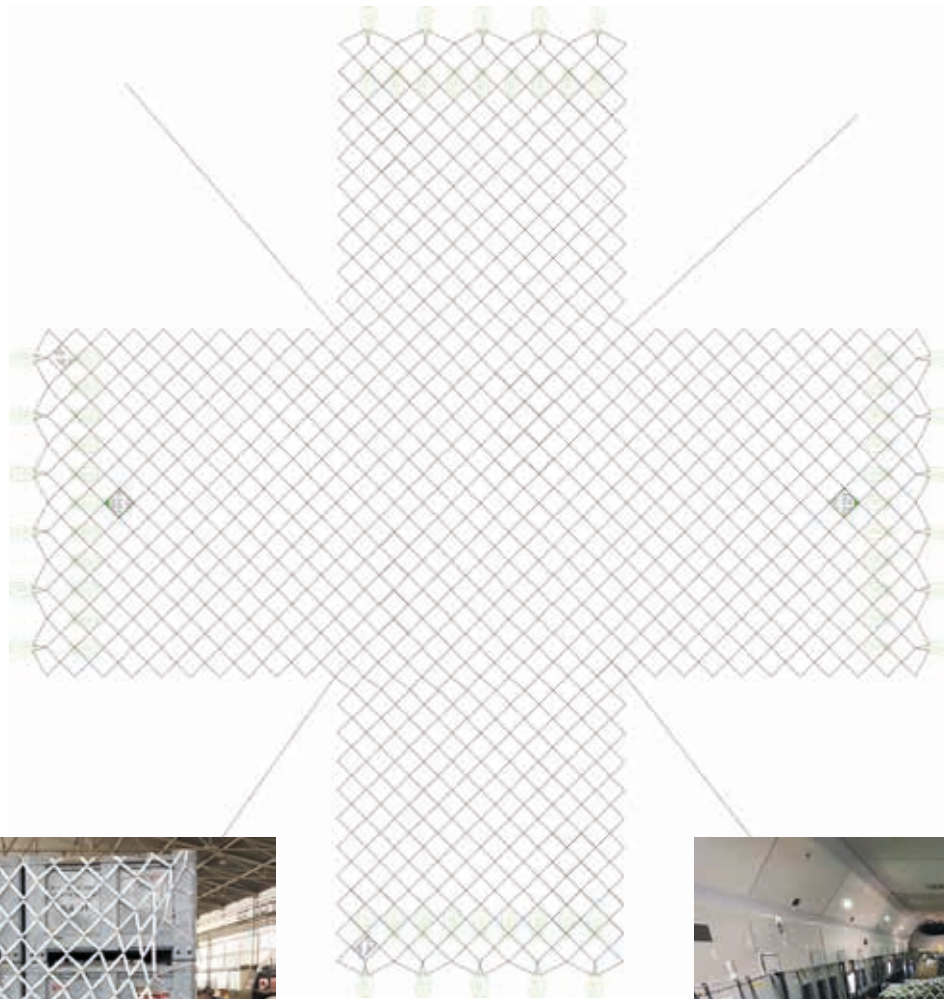
P/N	GP AR2015
NSN	1670-14-536-6277
CONFORMITY	MIL-N-2744
ULTIMATE SERVICE LOAD	4550 kg / 10 000 lbs
DIMENSIONS	195,5" x 65,5"
MESH DIMENSIONS	300 x 300 mm
WEBBING	100% Polyester - FAR 25.853 + anti abrasion treatment
COLOR	Olive drab
TARE WEIGHT	15 kg / 33 lbs



ONE PIECE EASA CERTIFIED CARGO NETS FOR 463L / HCU-6 PALLET

CARGO NET FOR HCU-6 PALLET

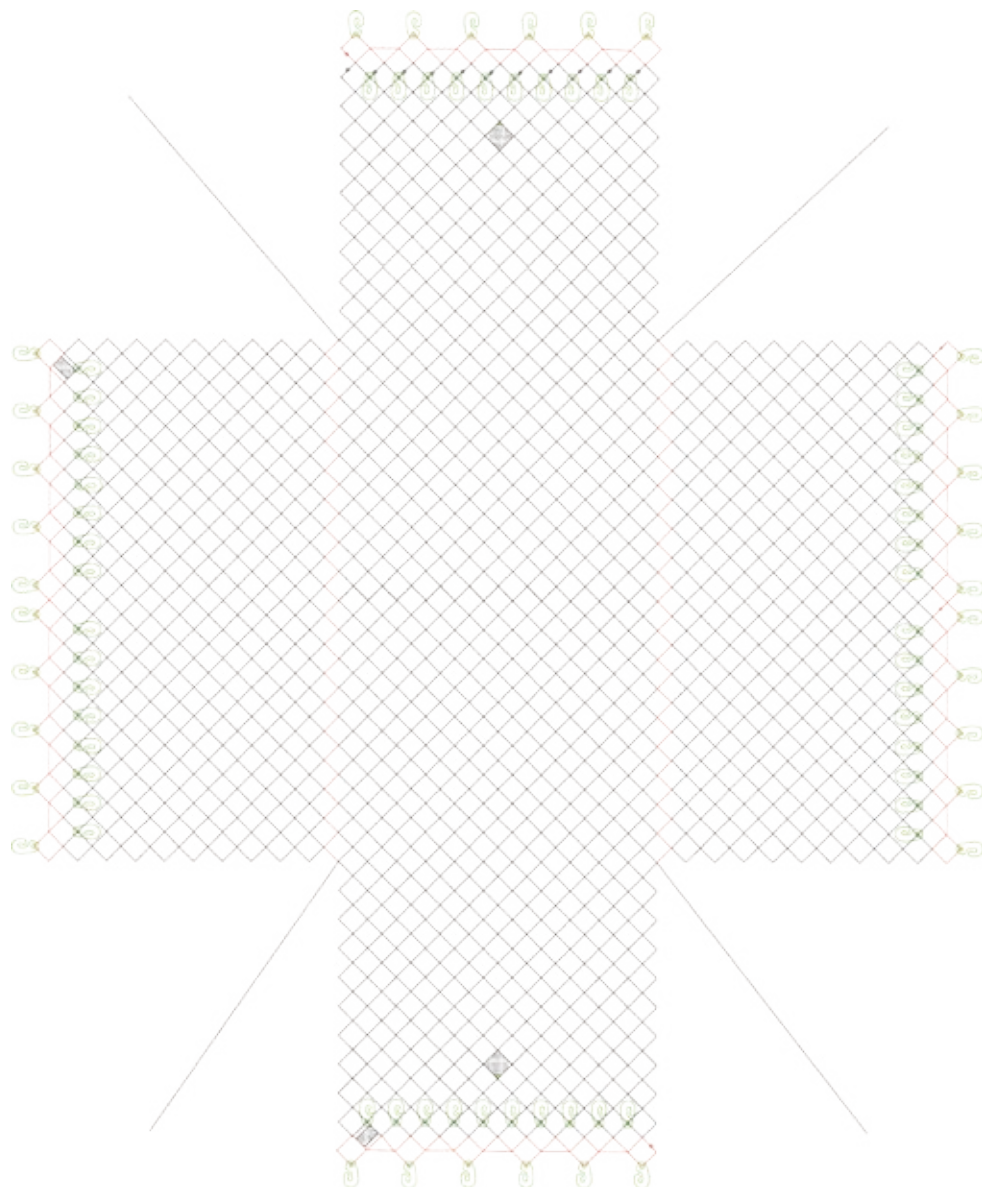
P/N	1B6N-N3-096-12
NSN	1670-14-563-2143
DIMENSIONS	88" x 108" x 96"
DESIGN REQUIREMENT	Conform to NAS 3610 and approved ETSO/TSO C90c
DOCUMENTATION	EASA certification n° EASA.210.1234
WEBBING	100% Polyester ; FAR 25.853 + anti abrasion treatment
MESH TYPE	Knotless mesh
TARE WEIGHT	30 kg / 66 lbs
ULTIMATE SERVICE LOAD	4550 kg / 10.000 lbs
LIFESPAN	10 years



ONE PIECE CARGO NETS FOR 2 COUPLED 463L / HCU-6 PALLET

CARGO NET FOR 463L / HCU-6 DOUBLED

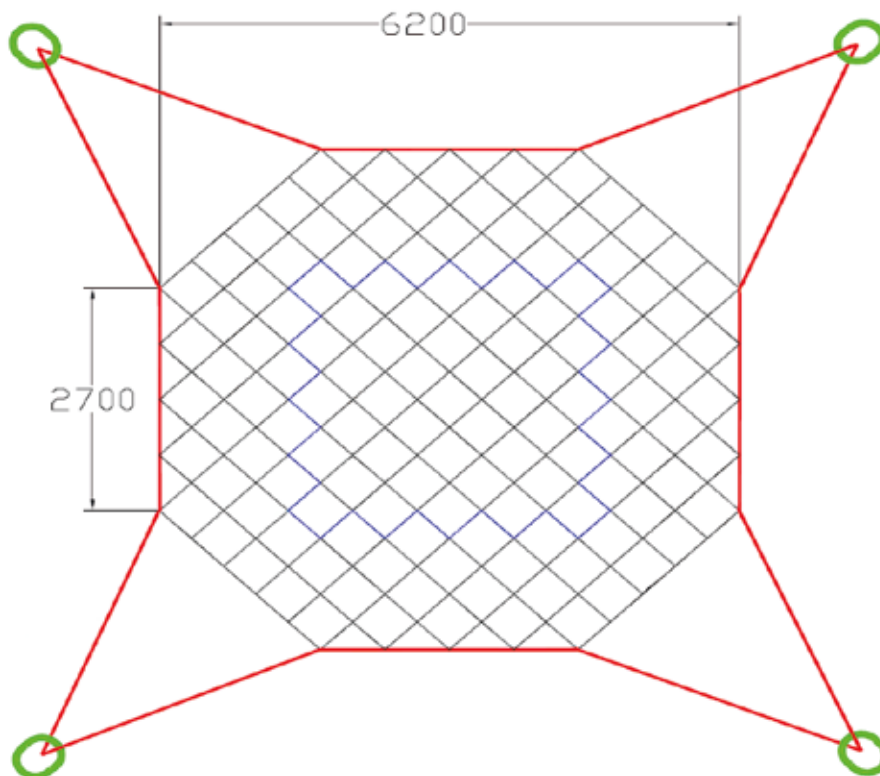
P/N	1B6N-N3-096-10
NSN	1670-14-581-2298
CONFORMITY	Delivered with certificate of conformance
DESIGN REQUIREMENT	Conform to NAS 3610 and approved ETSO/TSO C90c
ULTIMATE SERVICE LOAD	24.495 kg / 54.000 lbs
DIMENSIONS	108" x 178" x 96"
TARE WEIGHT	40 kg / 88 lbs
WEBBING	100% Polyester - FAR 25.853
NUMBER OF TIE DOWN HOOKS	32 pcs
NUMBER OF AJUSTING HOOKS	52 pcs
MESH TYPE	Knotless
MESH DIMENSIONS	180 x 180 mm



UNDERSLUNG LIFTING NET - 1500 KG / 3300 LBS

UNDERSLUNG LIFTING NET

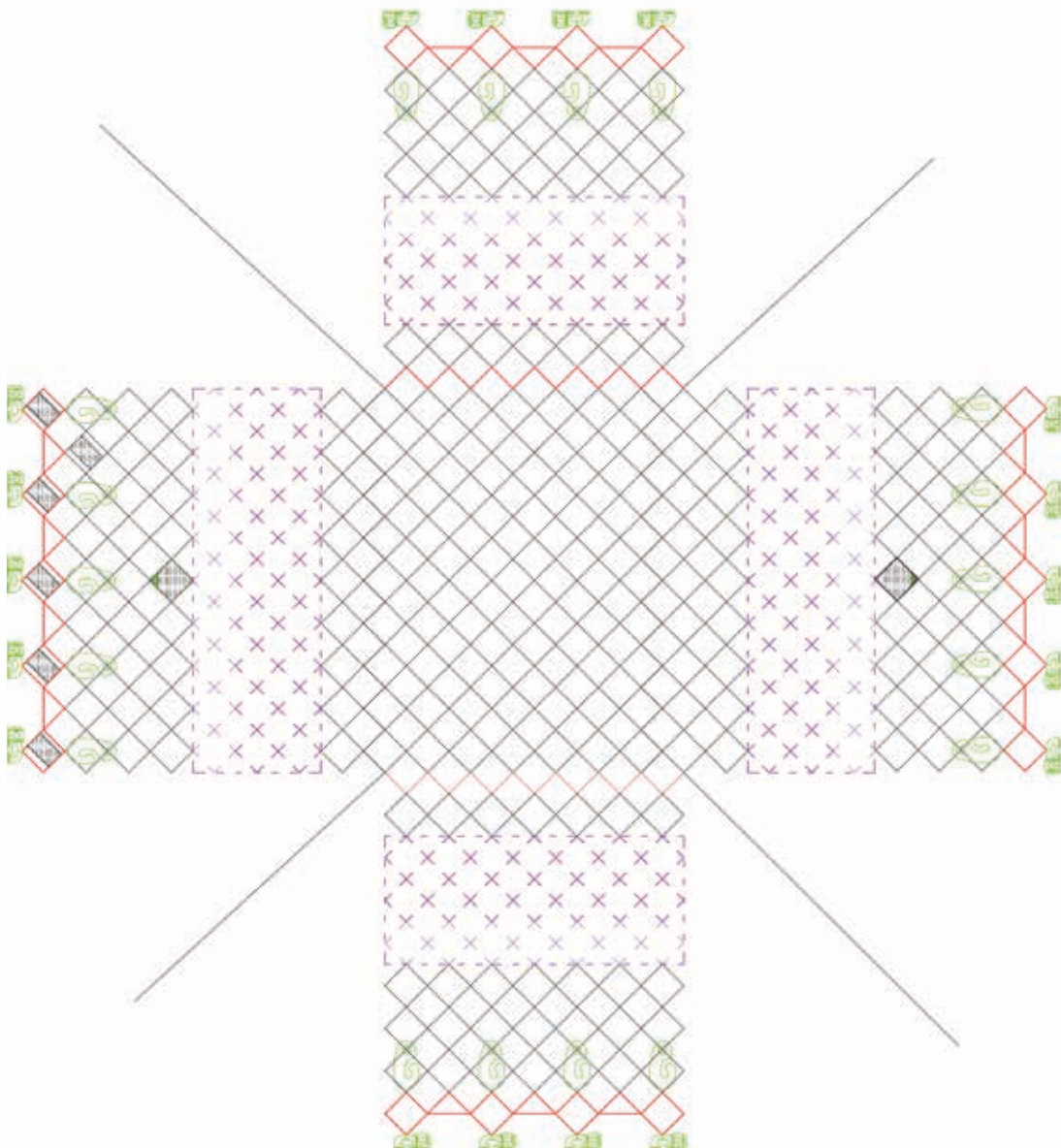
P/N	GP LN-N15-62X62
NSN	TBD
CONFORMITY	Delivered with certificate of conformance
ULTIMATE SERVICE LOAD	1.500 kg / 3.300 lbs
DIMENSIONS	6,2 x 6,2 m
LOADING PERIMETER	3,5 x 3,5 m
WEBBING	100% Polyester - FAR 25.853
NUMBER OF FITTING RINGS	4 pcs
MESH TYPE	Knotless
MESH DIMENSIONS	125 x 125 mm



EASA CERTIFIED CARGO NET FOR PMC / PAG PALLET

CARGO NET FOR PMC / PAG PALLET

P/N	2M2N-118-B1-65
NSN	1670-14-559-5545
DESIGN REQUIREMENT	Conform to NAS 3610 and approved ETSO/TSO C90c
ULTIMATE SERVICE LOAD	6800 kg / 15.000 lbs
DIMENSIONS	88/96" x 125" x 118"
TARE WEIGHT	13 kg / 28 lbs
WEBBING	Polyester - PES
NUMBER OF TIE DOWN STUD	18 pcs
NUMBER OF AJUSTING HOOKS	18 pcs
MESH TYPE	Knotless
MESH DIMENSIONS	250 x 250 mm



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LASHING LC 2000 daN



LASHING LC 2500 daN



CORNER PROTECT



LASHING LC 2000 daN



LASHING CHAIN SYSTEM



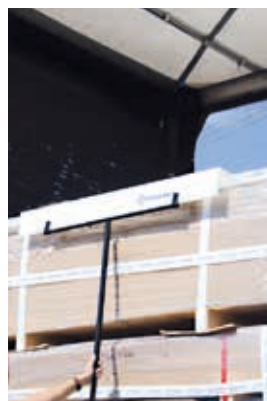
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SECU-STICK



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LASHING ONE USE



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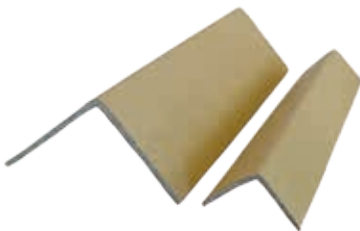
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DESICANT ULTRA-DRY



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SEAL CONTENEURBLOCK



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DOCK EQUIPMENT

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DOCK LEVELER SPEED-DOCK



DOCK LEVELER FLASH-DOCK



BUMPER STEEL-BOX



LIFTING

TEXTILE SLING



CHAIN SLING



ACCESSOIRES



LIFTING CLAMP



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