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I- NET STAINLESS STEEL NET SYSTEMS



I-NET Stainless Steel Net Systems

Lightweight, flexible, transparent, durable, and long-lasting I-NET is being created by knitting high quality stainless steel rope and stainless steel ferrules. I-NET is one of the most preferred materials for wide visioned architects and designers who want to give shape to their limitless imaginations. With the flexibility and curvature features of the I-NET stainless steel net, it can move in opposite directions allowing it to flex and change to the desired geometric form. Thus, it can be used in large areas without the need for any auxiliary substructures.

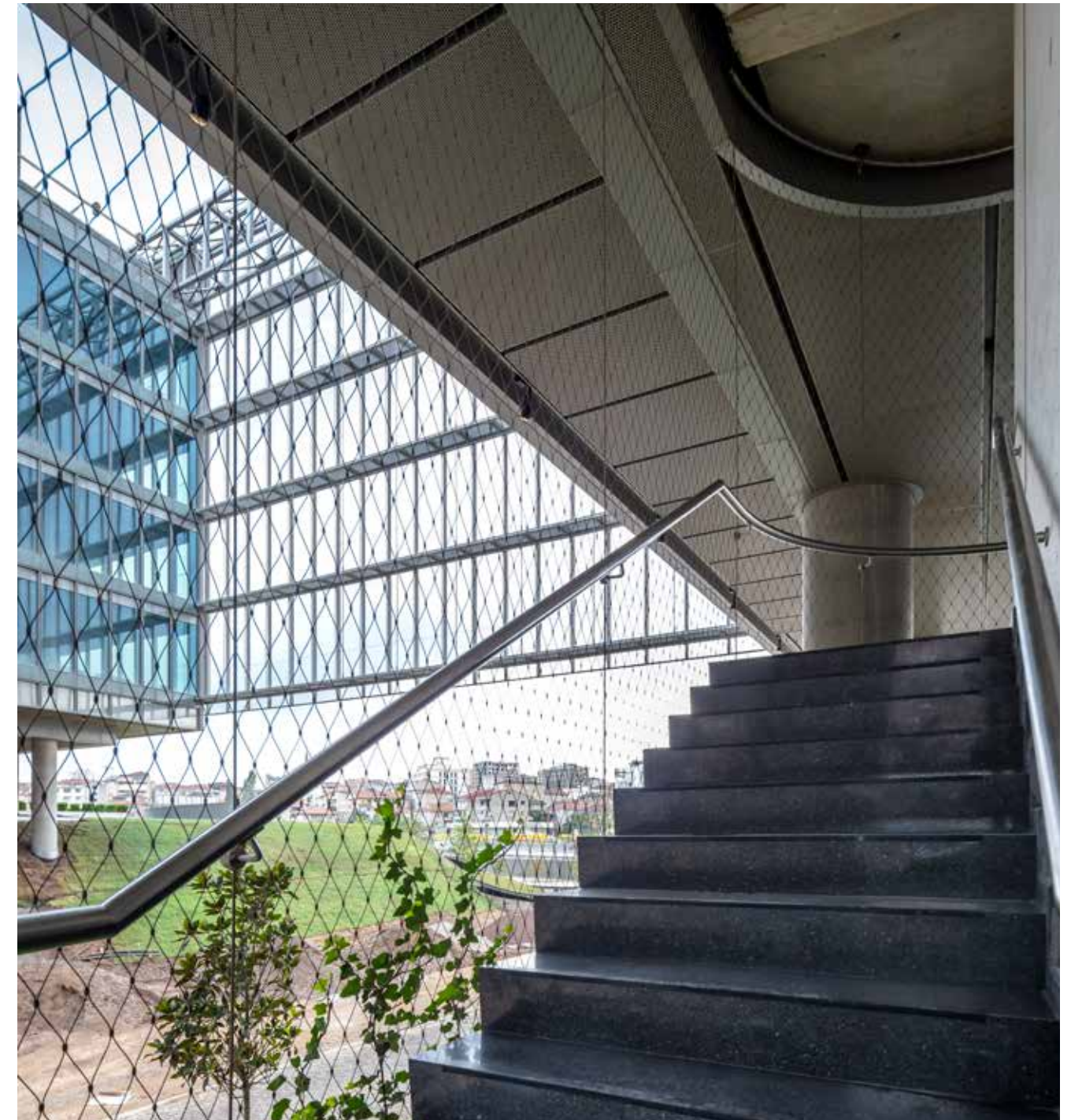
I-NET is produced with different net widths and rope diameters depending on the application field.



I-NET is a suitable material from railing fillings to,

- **DURABLE,**
- **TRANSPARENT,**
- **LIGHTWEIGHT**

facade structures, up to free-form zoo structures. I-NET provides solutions to a wide range of application fields.

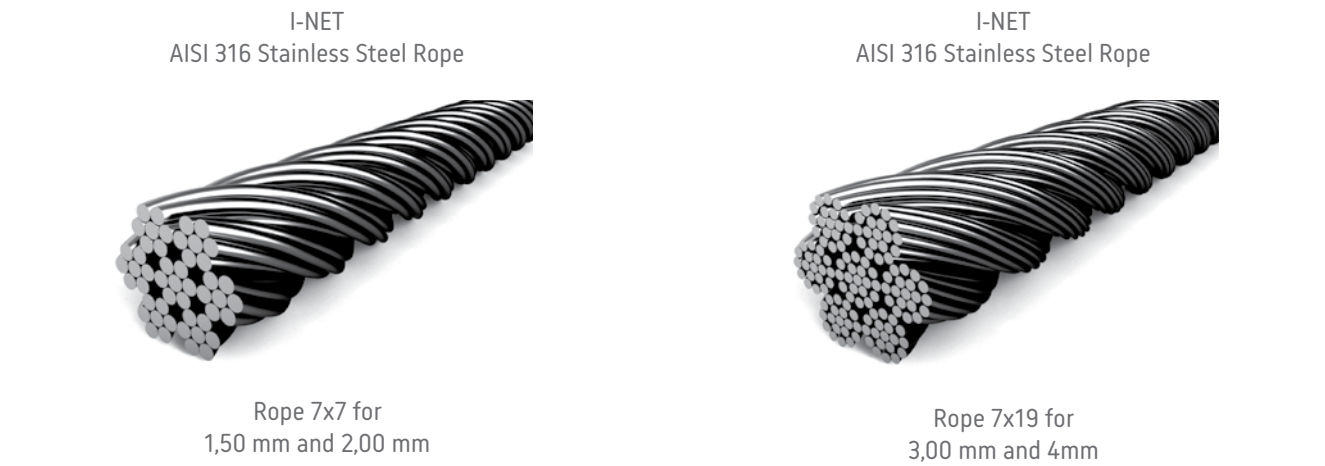


T. Garanti Bank Pendik Technology Campus / Pendik - İSTANBUL

The most common applications for I-NET Stainless Steel Net are:

- **BALUSTRADES,**
- **SAFETY NETS,**
- **FACADES,**
- **GREENERIES,**
- **DECORATIVE DESIGNS,**
- **ZOO ENCLOSURES,**

I-NET TECHNICAL & GEOMETRICAL DETAILS



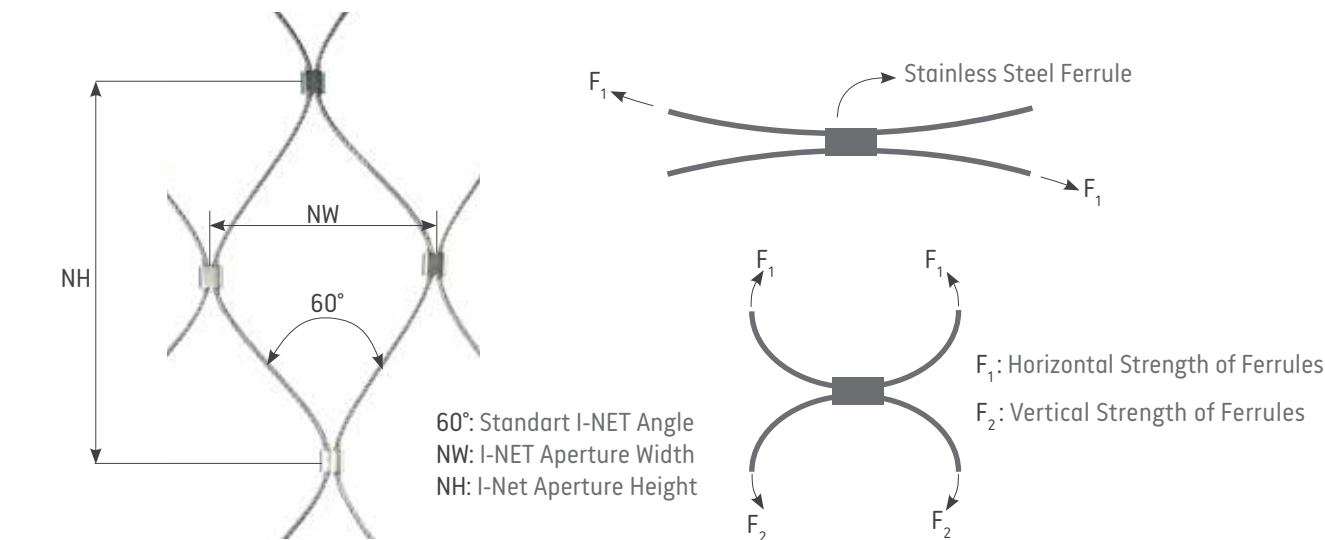
ROPES						
Part Number	Rope (Ømm)	Material	Construction	F (kN)	MQ mm²	S (N/mm²)
IR-102-0150	1,5	AISI 316	7x7	1,86	0,97	1570
IR-102-0200	2	AISI 316	7x7	2,88	1,73	1570
IR-103-0300	3	AISI 316	7x19	4,69	3,73	1570
IR-103-0400	4	AISI 316	7x19	8,34	6,63	1570

F = Breaking load

MQ = Metallic cross section

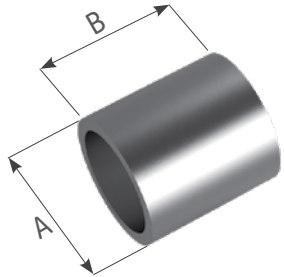
S = Nominal strength of the individual wires

FERRULES						
Part Number	Rope (Ømm)	Material	Node Strength F1(kN)	Node Strength F2(kN)	Diameter Ø (mm)	Length (mm)
IN-115-0150	1,5	AISI 316L	0,21	2,26	5	6,4
IN-115-0200	2	AISI 316L	0,28	3,78	6	7,8
IN-115-0300	3	AISI 316L	0,45	7,9	8	11



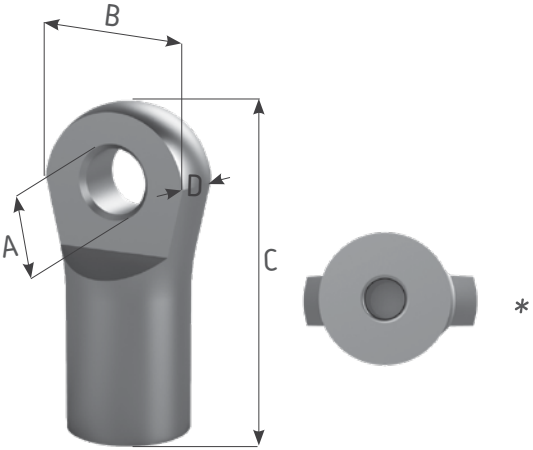
The standard diameters of rope used in I-NET stainless steel nets are produced as 1.5 mm, 2 mm, 3 mm or 4 mm. Producing net width of 25 to 200mm (or larger) is possible depending on the rope diameter. The material class of I-NET is 1.4401.

I-NET Components



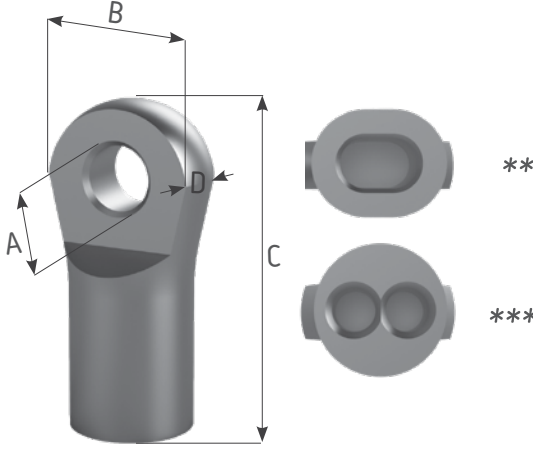
I-NET FERRULE				
Part Number	Rope (Ømm)	Dimensions in mm		
		A	B	
IN-115-0150	1,5	5	6,4	
IN-115-0200	2	6	7,8	
IN-115-0300	3	8	11	

Material AISI 316 L




I-NET EYELET SINGLE					
Part Number	Rope (Ømm)	Dimensions in mm			
		A	B	C	D
*IN-116-0150	1,5	3,1	7,8	15,85	3
*IN-116-0200	2	4,55	10,62	21	3
*IN-116-0300	3	6	14,4	31	4,95

Material AISI 316 L



I-NET EYELET DOUBLE					
Part Number	Rope (Ømm)	Dimensions in mm			
		A	B	C	D
**IN-117-0150	1,5	3,1	7,8	15,85	3
**IN-117-0200	2	4,55	10,62	21	3
***IN-117-0300	3	6	14,4	31	4,95

Material AISI 316 L



Single 1.5, 2 and 3mm

Double 1.5 and 2mm

Double 3 mm

I-NET General Information

Part Number	Rope Ø mm	NW X NH mm	Weight kg/m ²	Transparency %
IN-110-150-025	1,5	25 x 43	1,71	82,6
IN-110-150-030	1,5	30 x 52	1,31	85,9
IN-110-150-040	1,5	40 x 69	0,87	89,9
IN-110-150-050	1,5	50 x 87	0,64	92,2
IN-110-150-060	1,5	60 x 104	0,5	93,7
IN-110-150-070	1,5	70 x 121	0,41	94,6
IN-110-150-080	1,5	80 x 139	0,35	95,3
IN-110-150-100	1,5	100 x 173	0,27	96,3
IN-110-150-120	1,5	120 x 208	0,22	97
IN-110-150-140	1,5	140 x 242	0,18	97,5
IN-110-150-160	1,5	160 x 277	0,15	97,8
IN-110-150-180	1,5	180 x 312	0,14	98
IN-110-150-200	1,5	200 x 346	0,12	98,9
IN-110-200-040	2	40 x 69	1,45	86,1
IN-110-200-050	2	50 x 87	1,07	89,3
IN-110-200-060	2	60 x 104	0,85	91,4
IN-110-200-070	2	70 x 121	0,7	92,6
IN-110-200-080	2	80 x 139	0,6	93,6
IN-110-200-100	2	100 x 173	0,45	95
IN-110-200-120	2	120 x 208	0,36	95,9
IN-110-200-140	2	140 x 242	0,3	96,6
IN-110-200-160	2	160 x 277	0,26	97,1
IN-110-200-180	2	180 x 312	0,23	97,3
IN-110-200-200	2	200 x 346	0,2	97,8
IN-110-300-050	3	50 x 87	2,48	85
IN-110-300-060	3	60 x 104	1,94	87,1
IN-110-300-070	3	70 x 121	1,59	89
IN-110-300-080	3	80 x 139	1,34	90,5
IN-110-300-100	3	100 x 173	1,01	92,6
IN-110-300-120	3	120 x 208	0,81	93,9
IN-110-300-140	3	140 x 242	0,68	94,9
IN-110-300-160	3	160 x 277	0,58	95,6
IN-110-300-180	3	180 x 312	0,51	95,9
IN-110-300-200	3	200 x 346	0,45	95

Part Number : IN - 000 - 000 - 000

Net Width

Rope Diameter

Code No

I-NET

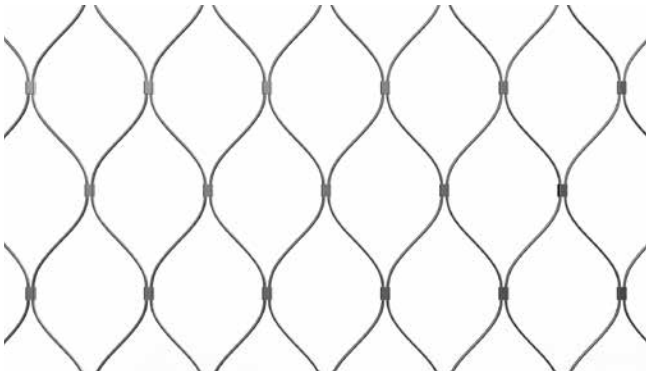
I-NET Comparison



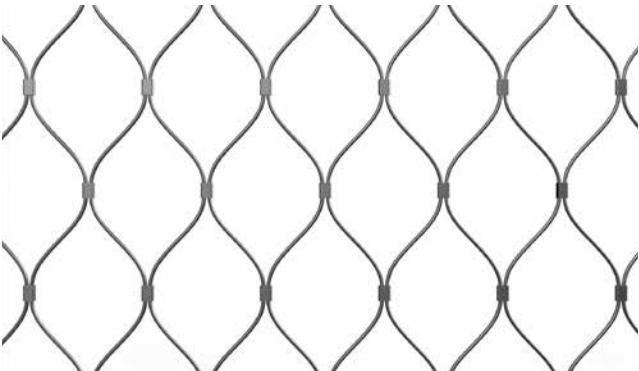
I-NET 40mm with 1,5mm rope diameter



I-NET 40mm with 2mm rope diameter



I-NET 60mm with 1,5mm rope diameter



I-NET 60mm with 2mm rope diameter



I-NET 80mm with 2mm rope diameter



I-NET 80mm with 3mm rope diameter



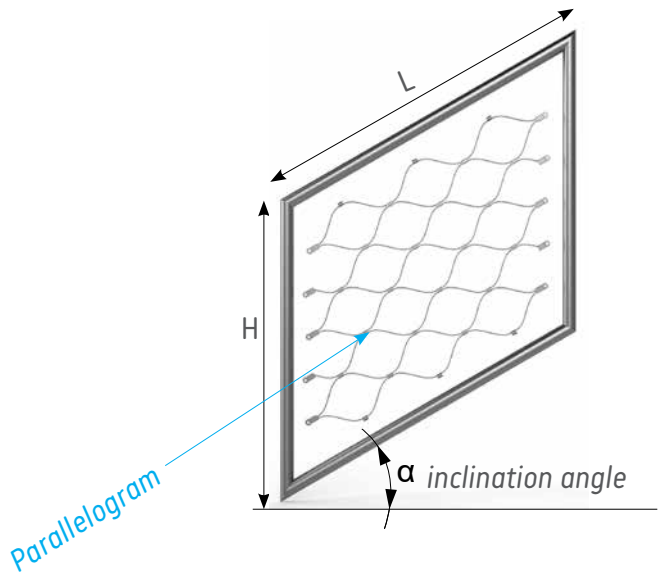
ORDER DATA SHEET

To provide a better service, please indicate following information when ordering stainless steel net systems.
If you have any specific inquiry please contact us..

1. I-NET Measurements

Outer Border / Frame Dimensions

Rectangular : **H** (Height in mm) x **L** (Length in mm)
Parallelogram : **H** (Height in mm) x **L** (Length in mm) x α (inclination angle)



For special shapes please share drawings.

2. I-NET Type

Rope Diameter: : (See page 16)
Net Width : (See page 16)
Net Direction and Endings : (See page 20,21,22,23)

3. Border Details

Border Rope and Assembly Details: (See page 24 and 25)
Frame System (Round and inviss): (See page 26 and 28)

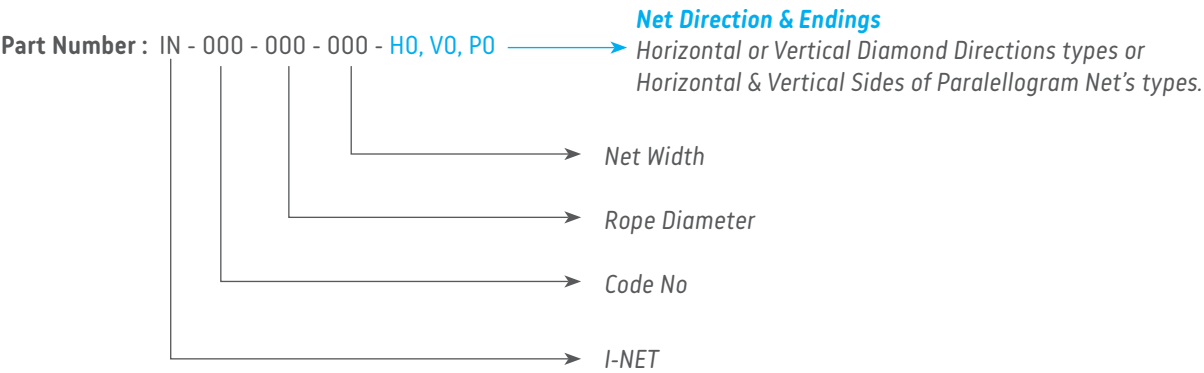
Additional for Installation

Installation Cable : Rope diameter (See page 14)
Ferrules : Type / dimension (See page 15)
Eyelets : Type / dimension (See page 15)

To order I-NET please refer to following code system to indetify part number.

I-NET Part Number Description

IN	Code No.	Rope Diameter	Net Width	Net Direction & Endings
I-NET	110	1,5 mm	25 x 43 mm	H1 (Horizontal diamond direction, both sides open cable endings)
		2 mm	30 x 52 mm	H2 (Horizontal diamond direction, one side open,other side closed with loose ferrules)
		3 mm	40 x 69 mm	H3 (Horizontal diamond direction, both sides closed with loose ferrules)
			50 x 87 mm	H4 (Horizontal diamond direction, one side open cable, other side closed with eyelets)
			60 x 104 mm	H5 (Horizontal diamond direction, both sides with eyelets)
			70 x 121 mm	H6 (Horizontal diamond direction,one side closed with loose ferrules, otherside closed with eyelets)
			80 x 139 mm	V1 (Vertical diamond direction, both sides open cable endings)
			100 x 173 mm	V2 (Vertical diamond direction, one side open,other side closed with loose ferrules)
			120 x 208 mm	V3 (Vertical diamond direction, both sides closed with loose ferrules)
			140 x 242 mm	V4 (Vertical diamond direction, one side open cable, other side closed with eyelets)
			160 x 277 mm	V5 (Vertical diamond direction, both sides with eyelets)
			180 x 312 mm	V6 (Vertical diamond direction,one side closed with loose ferrules, otherside closed with eyelets)
			200 x 346 mm	PH1 (Parallelogram net, horizontal diamond,, all sides open cable endings)
				PH2 (Parallelogram net, horizontal diamond, both side open closed with loose ferrules, both side open cable)
				PH3 (Parallelogram net,horizontal diamond, all sides closed with eyelets)
				PH4 (Parallelogram net,horizontal diamond, all sides closed with eyelets)
				PH5 (Parallelogram net,horizontal diamond, all sides closed with eyelets)
				PH6 (Parallelogram net, horizontal diamond, both side open closed with eyelets, both side closed with loose ferrules)
				PV1 (Parallelgram net, vertical diamond, all sides closed with loose fer-rules)
				PV2 (Parallelogram net, vertical diamond, both sides open cable, both sides closed with loose ferrules)
				PV3 (Parallelogram net, vertical diamond, both sides closed with loose ferrules, both sides closed with eyelets)
				PV4 (Parallelogram net, vertical diamond, all sides closed with eyelets)

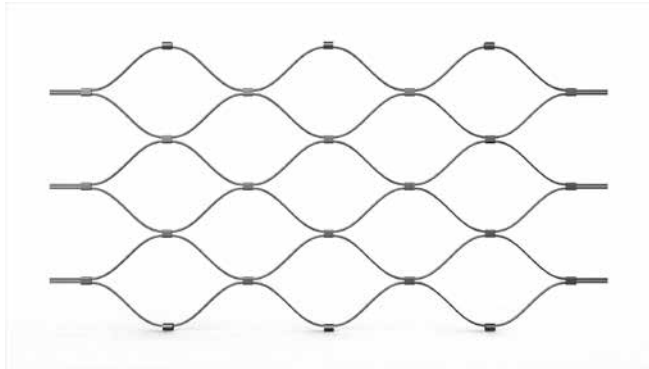


I-NET Directions and Endings

Horizontal Diamond I-NET Endings

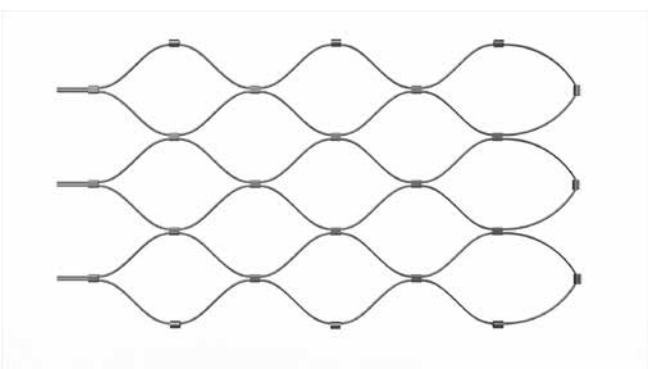
The horizontal diamond net direction is commonly used at balustrade, greenery and decorative projects. It might be preferred for long continuous net projects as an economic solution. Ending possibilities of horizontal diamond directed I-NET are as below;

H1



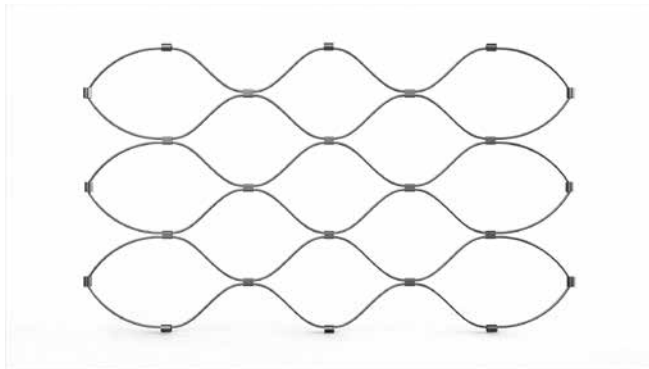
Both side open cable endings.

H2



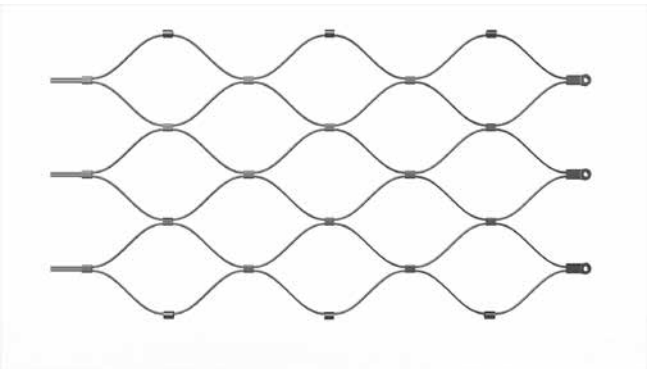
One side open cable, other side closed with loose ferrules.

H3



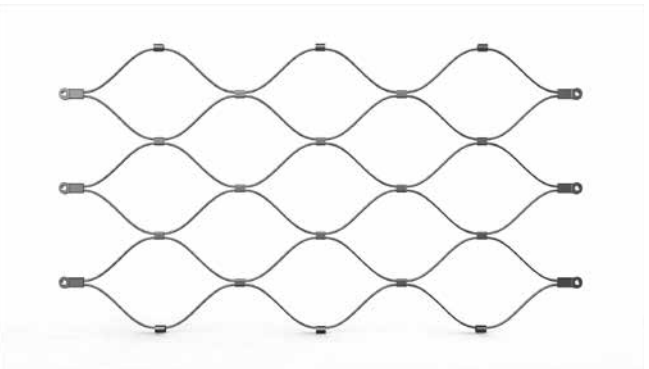
Both side closed with loose ferrules.

H4



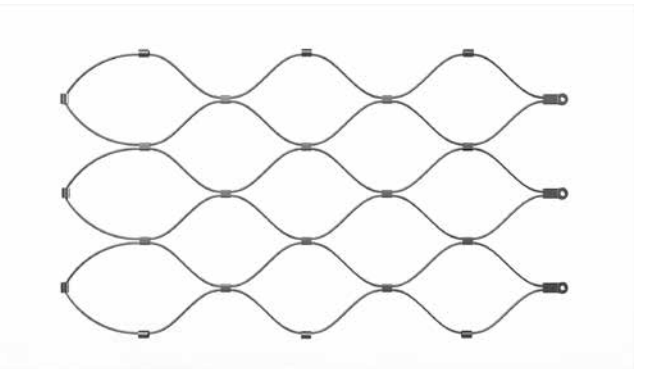
One side open cable, other side closed with eyelet.

H5



Both side closed with eyelet.

H6



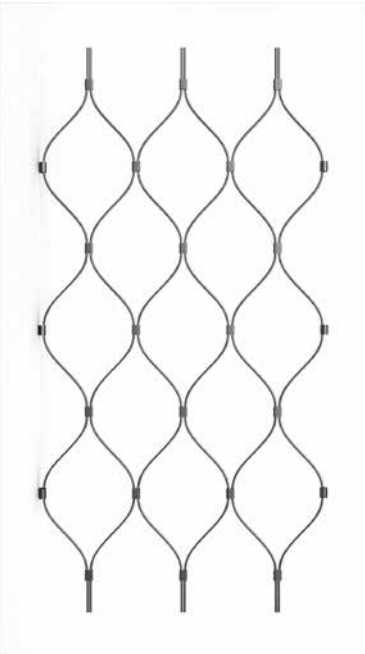
One side closed with loose ferrules, otherside closed with eyelet.

I-NET Directions and Endings

Vertical Diamond I-NET Endings

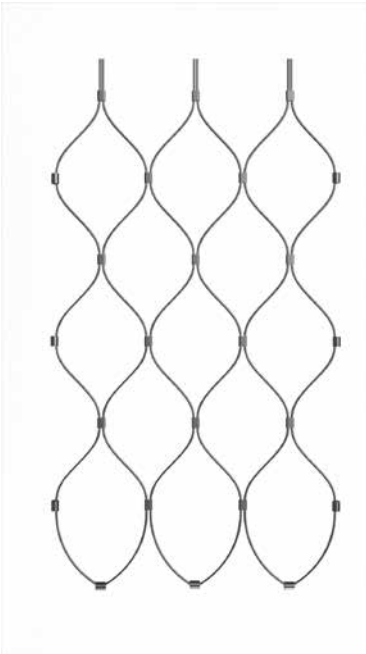
The vertical diamond net direction is mostly preferred at safety requiring applications and facade projects. Ending possibilities of vertical diamond directed I-NET are as below

V1



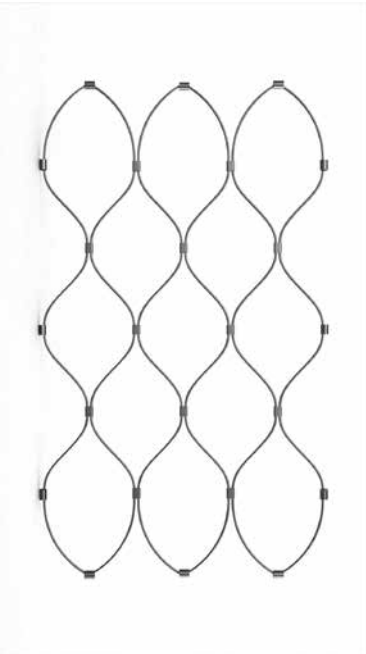
Both side open cable endings.

V2



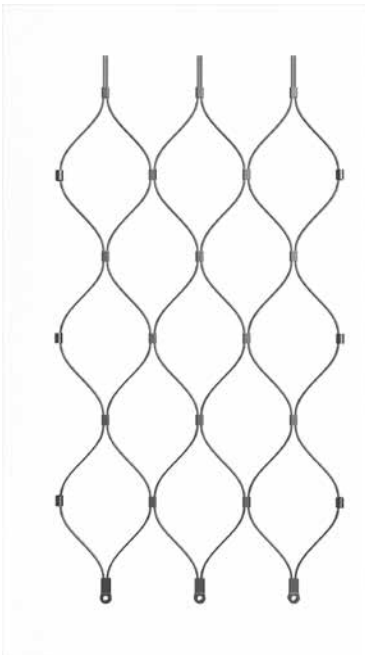
One side open cable, other side closed with loose ferrules.

V3



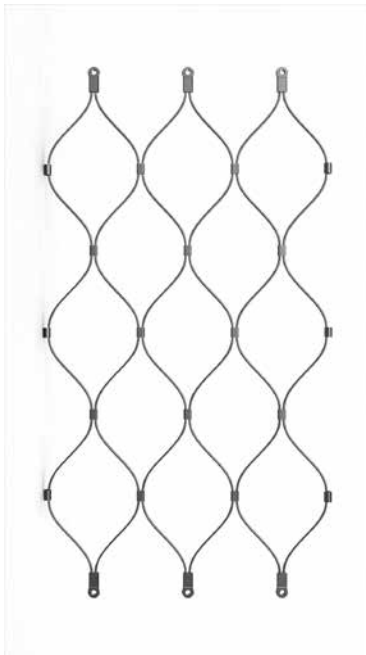
Both side closed with loose ferrules.

V4



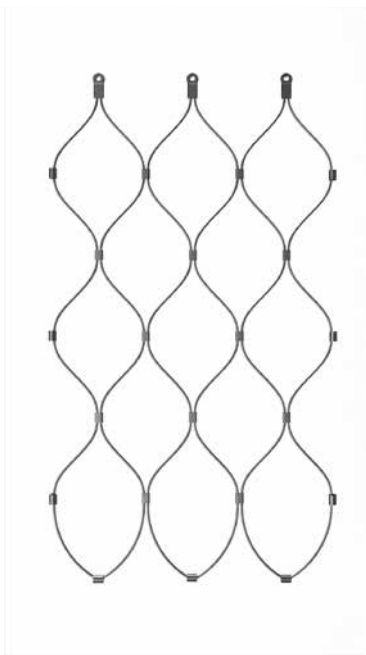
One side open cable, other side closed with eyelet.

V5



Both side closed with eyelet.

V6



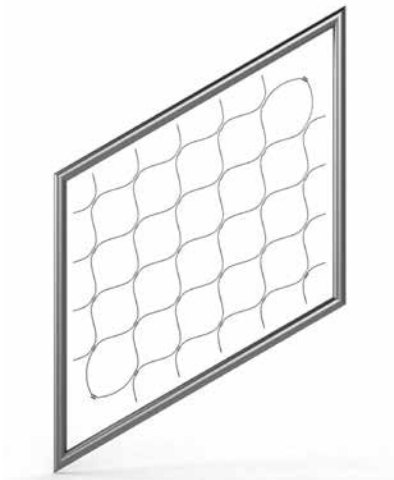
One side closed with loose ferrules otherside closed with eyelet.

I-NET Directions and Endings

Horizontal Diamond Paralellograms I-NET Endings

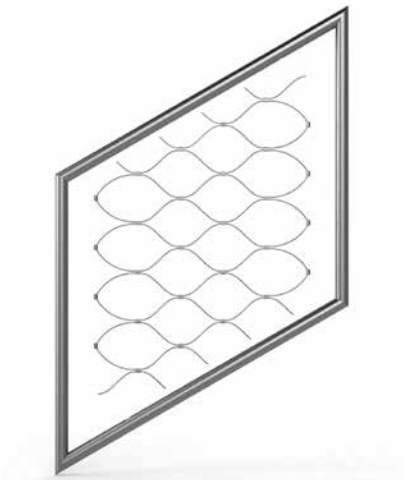
Parallelogram I-NET panel requirements are mostly seen in staircase projects. The planning and production process is precisely done with the exact dimensions. Ending possibilities of horizontal diamond directed parallelogram I-NET are as below;

PH1



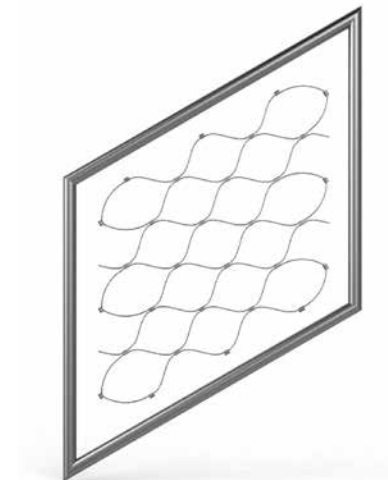
All sides open cable net endings.

PH2



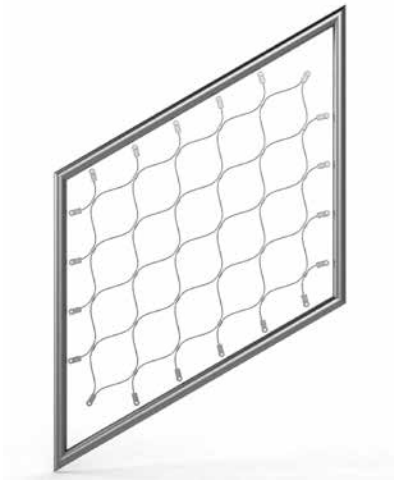
Both sides closed with loose ferrules, two side open cable.

PH3



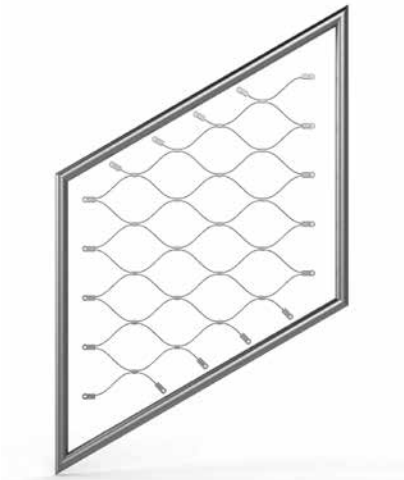
All net sides closed with loose ferrules.

PH4



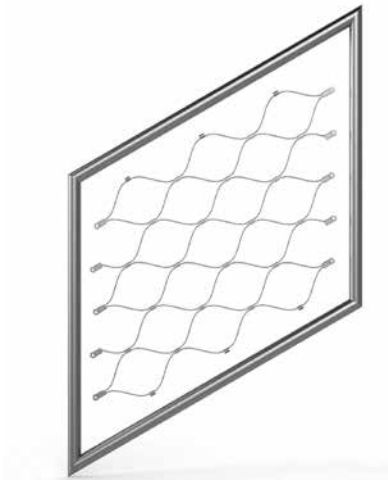
All net sides closed with eyelets.

PH5



All net sides closed with eyelets.

PH6



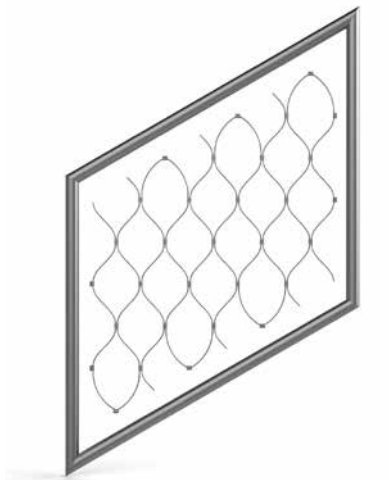
Both sides closed with eyelets, both sides closed with loose ferrules

I-NET Directions and Endings

Vertical Diamond Paralellograms I-NET Endings

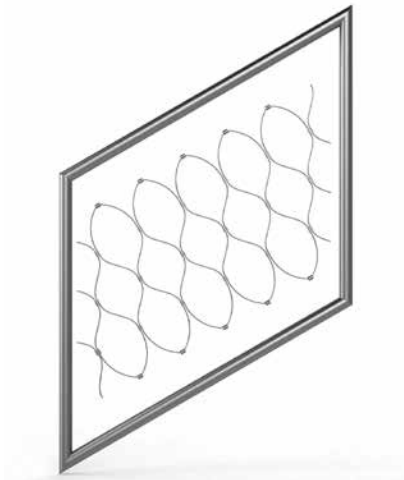
Parallelogram I-NET panel requirements are mostly seen in staircase projects. The planning and production process is precisely done with the exact dimensions. Ending possibilities of horizontal diamond directed parallelogram I-NET are as below;

PV1



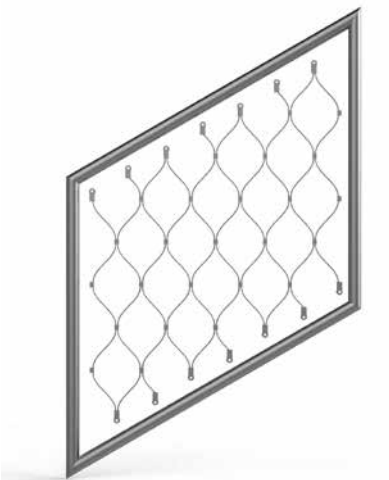
All net sides closed with loose ferrules.

PV2



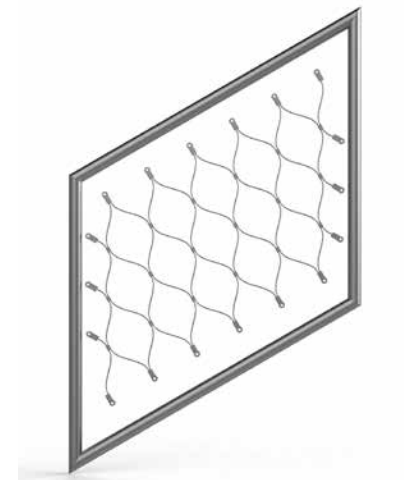
Both net sides open cable, both net sides closed with loose ferrules.

PV3



Both net sides closed with loose ferrules, both net sides closed with eyelets.

PV4



All net sides closed with eyelets.

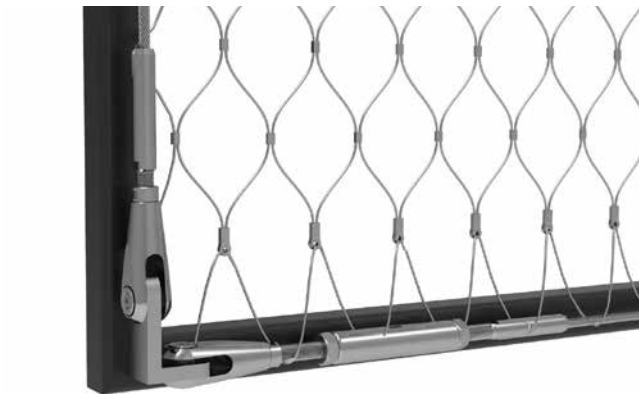
Border Ropes and Assembly Details / Closing Details



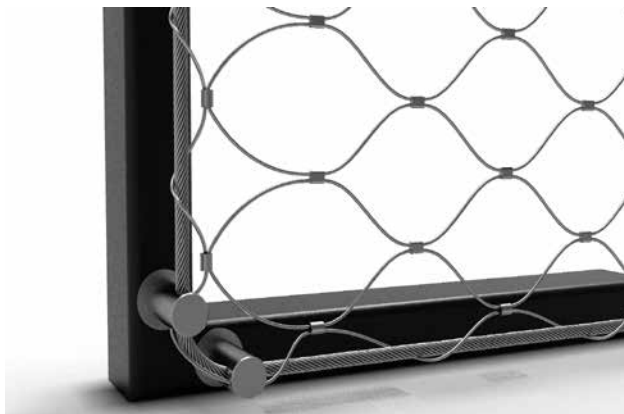
1. Corner solution, Eye with internal thread swaged fitting



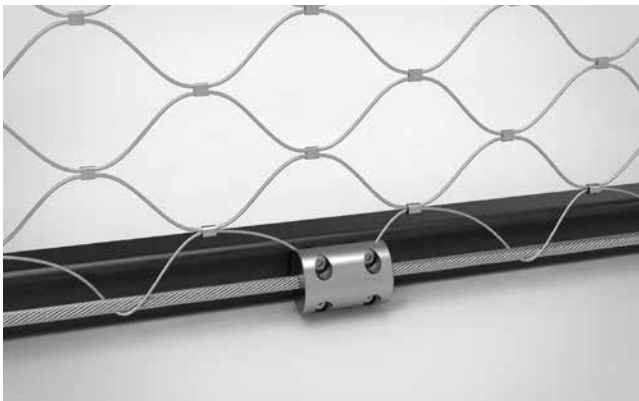
2. Corner solution with external thread fitting and rod fixation



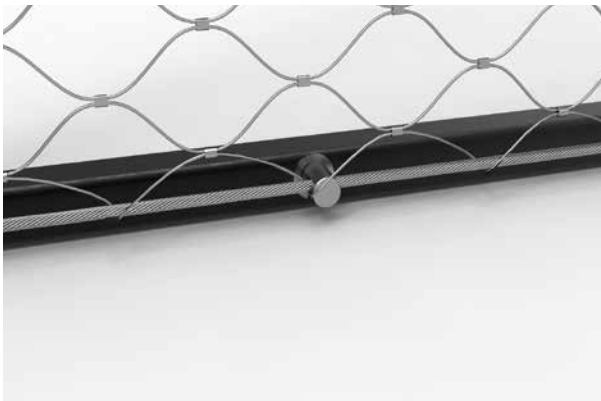
3. Corner connection bracket fixation with fork and swaged fitting



4. Corner solution with rope holder



5. Border cable guidance with clamp ring with two part



6. Border cable guidance with rope older

Border Ropes and Assembly Details / Closing Details



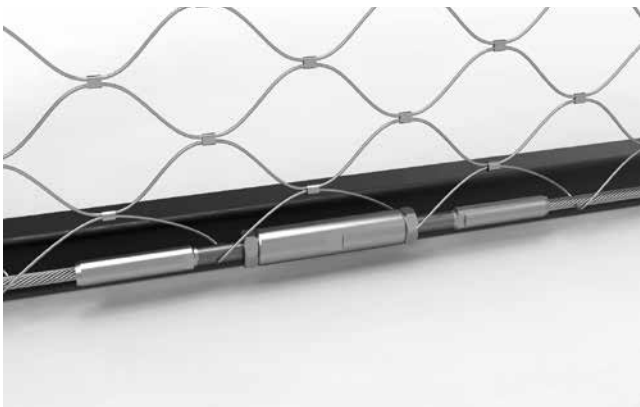
7. Corner solution, with fork head rope guiding



8. Corner solution with eye bolt



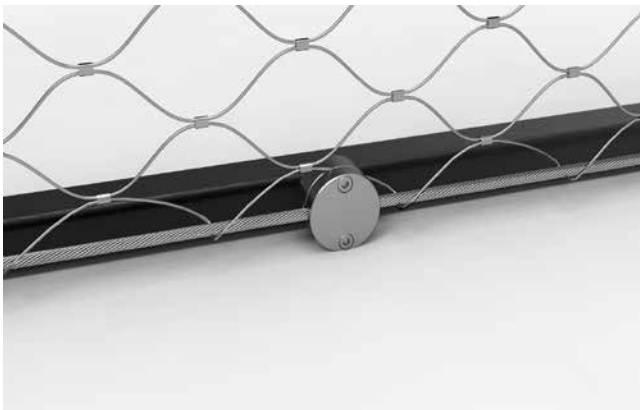
9. Corner solution with D-Form Shackle



10. Turnbuckle with both side external thread fitting



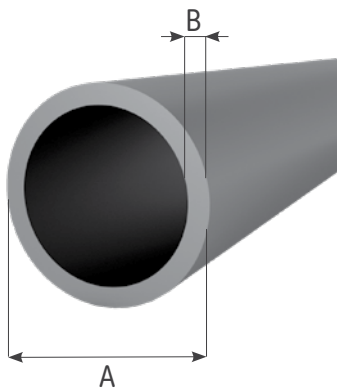
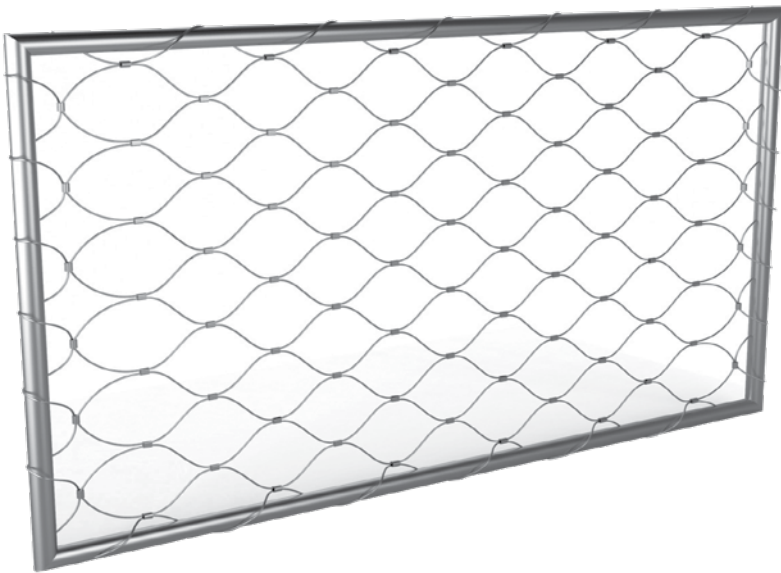
11. Border cable guidance with connection bracket



12. Border cable guidance with screw on cross clamp

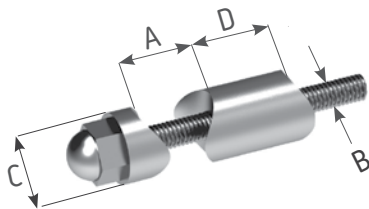
I-NET FRAME SYSTEMS

Round Frame Components



ROUND FRAME

Part Number	Dimensions in mm	
	A	B
IN-F-010-0021-020	21,3	2
IN-F-010-0026-020	26,9	2
IN-F-010-0033-026	33,7	2,6
IN-F-010-0042-026	42,4	2,6



ROUND FRAME HOLDER

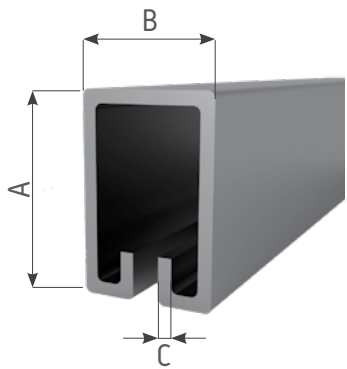
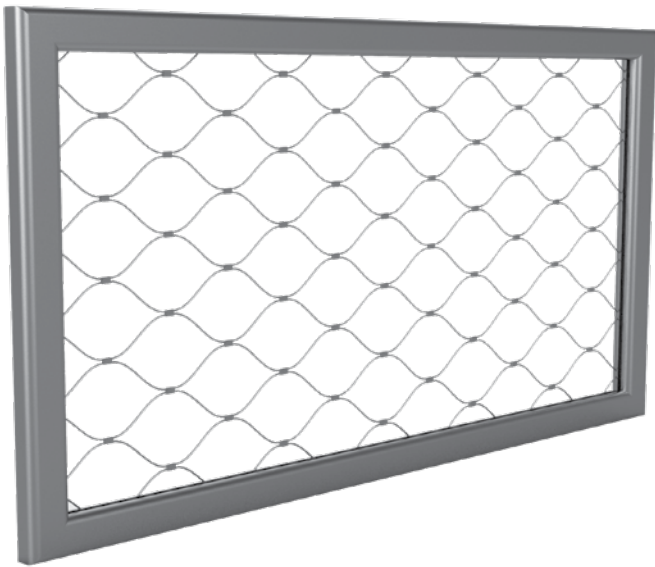
Part Number	Dimensions in mm			
	A	B	C	D
IN-F-015-021	21,3	M6	16	25
IN-F-015-026	26,9	M6	16	25
IN-F-015-033	33,7	M8	20	25
IN-F-015-042	42,4	M8	20	25



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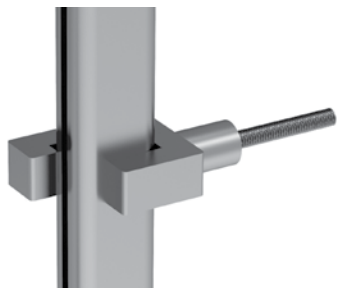
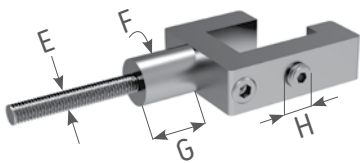
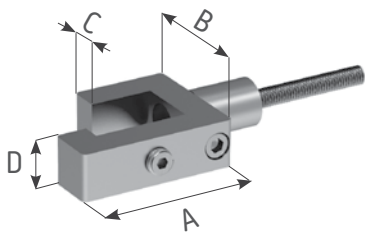
I-NET FRAME SYSTEMS

Inviss Frame Components



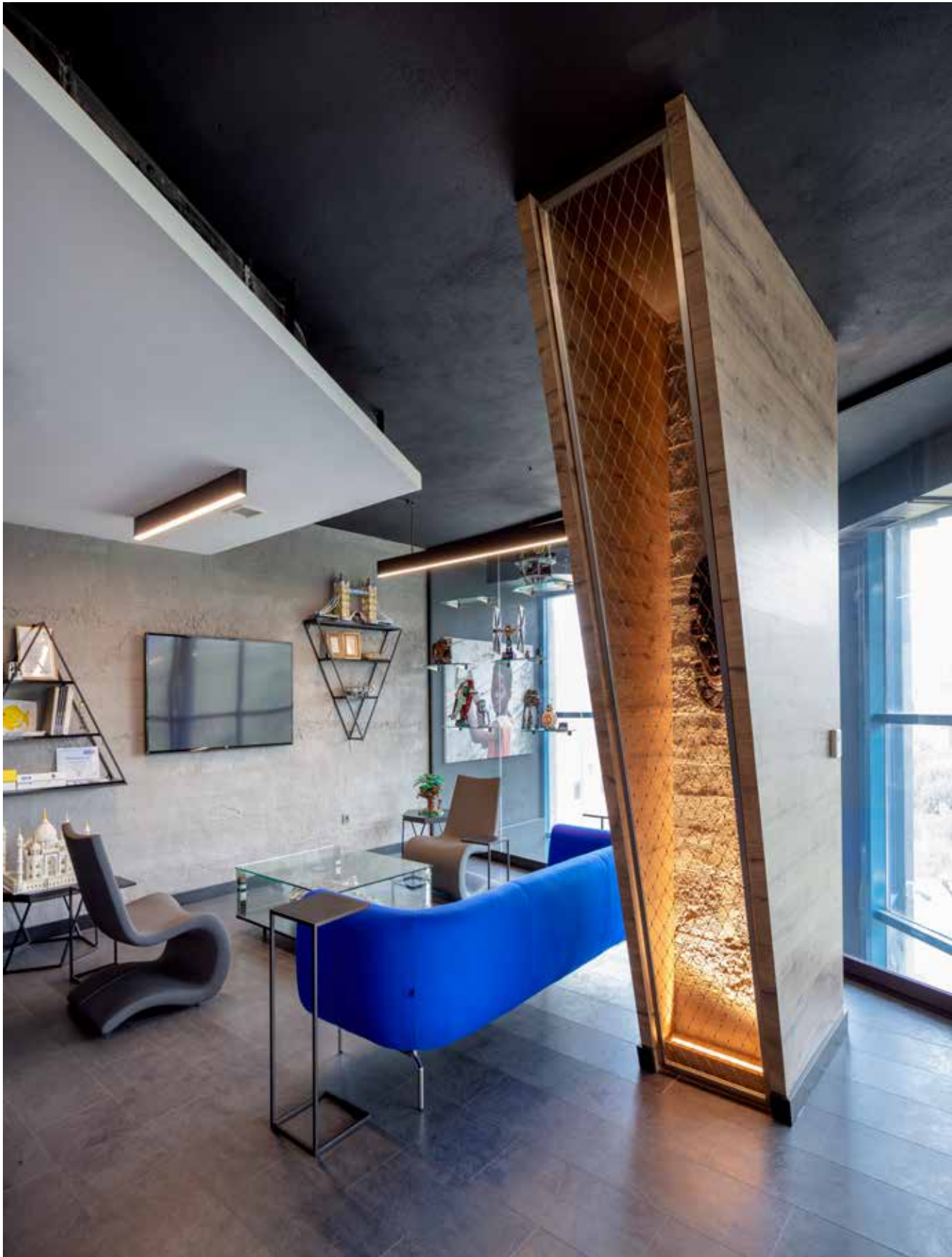
INVISS FRAME

Part Number	Dimensions in mm		
	A	B	C
IN-IF-010-3020-015	30	20	1,5



INVISS FRAME HOLDER

Part Number	Dimensions in mm							
	A	B	C	D	E	F	G	H
IN-IF-015-001	55	40	10	15	M6	14	20	M6



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