



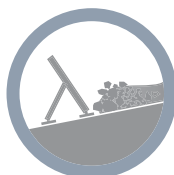
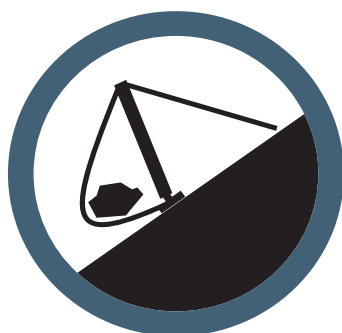
TRUMER
Schutzbauten

Installation Manual

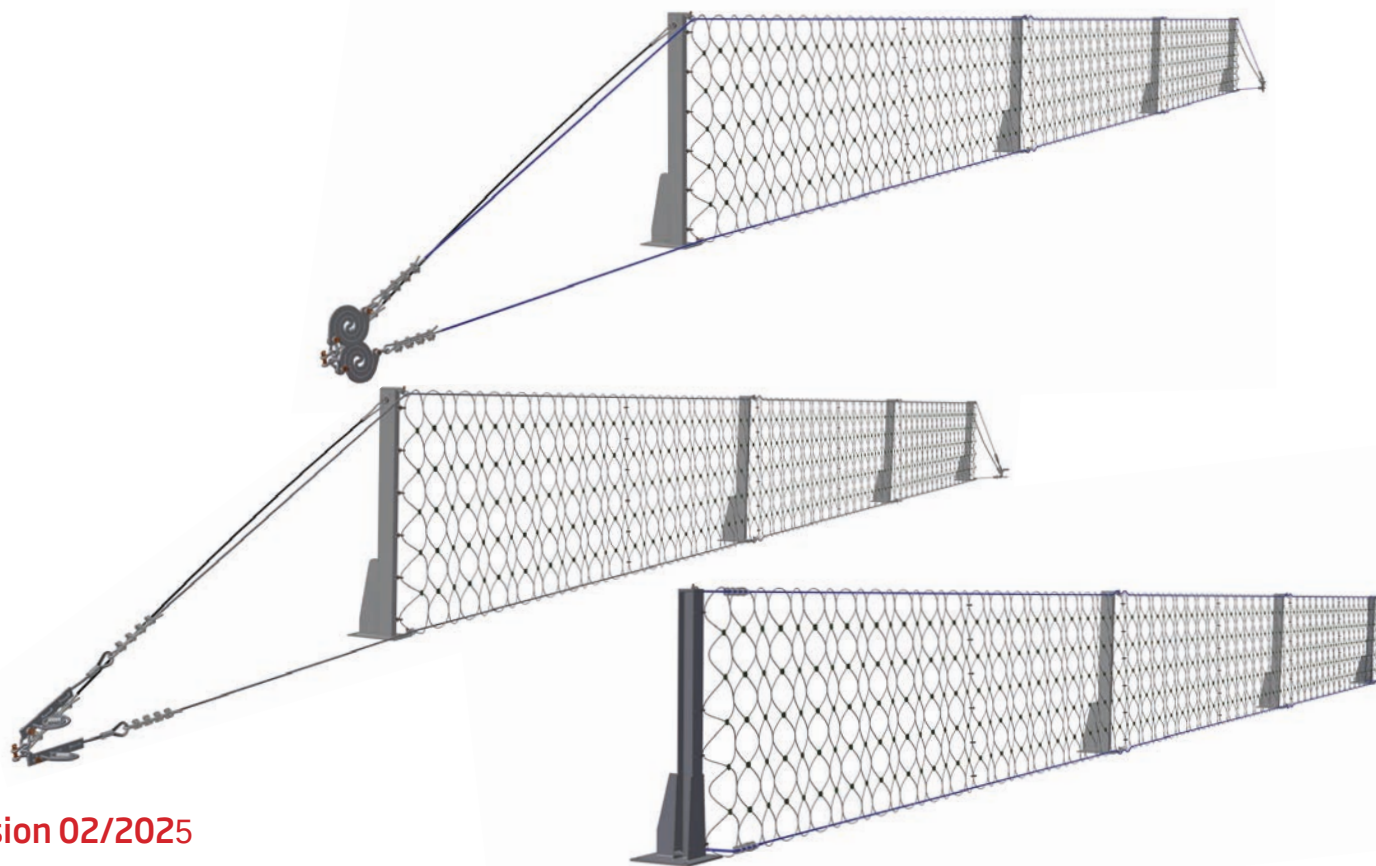
ISOSTOP 100 E 3.0

ISOSTOP 100 Ev

ISOSTOP 100 E DIM



Rockfall Protection



INTRODUCTION

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4	Tools required
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LEGAL TERMS

This Installation Manual belongs to Trumer Schutzbauten GmbH and is only valid as a whole. All copies and extracts of this document require the agreement of Trumer Schutzbauten GmbH, Oberndorf, Austria. Purpose of this document is exclusively the installation of ISOSTOP Rock Fall Protection Kits. Other use, for instance in a tendering process, is prohibited. The document focuses on rockfall. Other influences, such as earthquakes, snow loads, debris flows etc, are not regarded if not explicitly mentioned.

SAFETY ADVICES

The installation sites for protection barriers are usually exposed to unpredictable environmental influences, such as rockfalls. Harm to persons and damage of goods can't be excluded completely while the barrier is being installed. We recommend, to clear the upslope area from loose rocks and consider temporary countermeasures against rockfall. The minimum requirements for the personal safety equipment is the following gear: Harness with equipment necessary for rope access, helmet, goggles, gloves, protection boots. Trumer Schutzbauten GmbH is not reliable for any manipulation mistakes while installing the barrier.



INTRODUCTION

Purpose and structure

This installation manual contains detailed information for the complete assembling of an ISOSTOP rockfall protection system. Besides the exact description of the installation of the superstructure, also detailed information of the marking is provided. According to this, the manual is structured as follows:

System overview / Marking of drilling points / Installation guide

This manual covers only the standard installation situations. In special project and installation conditions Trumer Schutzbauten GmbH should be informed for further consultancy.

Quality and quality certificates

Trumer Schutzbauten GmbH is certified according to EN ISO 9001, Quality management systems - Requirements. All partners and suppliers have an appropriate management system, which correspond with the standard ISO 9001. The respective certificates such as ISO 9001 Certificate, Certificate of Constancy of Performance and Declaration of Performance can be requested from the manufacturer.

This document is not subject to revision service.

Product description

This manual refers to the products ISOSTOP 100 Ev / ISOSTOP 100 3.0 / ISOTOP 100 DIM. The products are rockfall protection system with an energy absorbing capacity of 100 kJ.

Functional efficiency of the system

The functional efficiency of the systems ISOSTOP 100 Ev / ISOSTOP 100 3.0 / ISOTOP 100 DIM is based on one-to-one rockfall tests, carried out and tested in accordance with the guideline for approval of rockfall protection kits (EAD 340059-00-0106, formerly ETAG 027). With the successful test and by fulfilling the ETAG requirements of factory production control, this system is CE marked. For the evaluation of the product conformity an independent test body was appointed. This product is officially approved as a construction product in Europe.

Maintenance

After installation acceptance, Trumer Schutzbauten GmbH offers further assistance to guarantee safety level and the functional efficiency of the system. With regard to this, a correct monitoring and a professional maintenance are very important. For these matters an appropriate manual of Trumer Schutzbauten GmbH is available and can be requested if necessary.

Property

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Bad Vigaun, September 2023

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ICONS



Top View



Front View



Side View



Kink in Barrier Line



Offset in Barrier Line



Side Post



Field Post



Rock



Soil



Up Slope



Down Slope



Cross Reference



Anchor



Wrench Size



Standard Value



Tension [kN]



Torque [Nm]



Twist



Spacing [mm]



Place Part



Remove Part



Option



Net



Oil the Nuts, according to EN 13411-58:2003

TOOLS REQUIRED

Marking Tools



Marking Plans



Measuring Tapes



Meter Stick



Spray



Wooden Post



Hammer



Range Pole

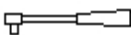
Installation Tools



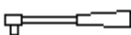
Wrench for anchoring nut



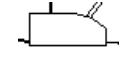
Wrench / Ring Spanner



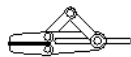
Socket Wrench w. Ratchet



Torque Wrench



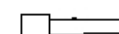
Rope-/Chain Hoist Machine



Cable Clamp



Cable Cutter



Angel Grinder



Angle Spirit Level

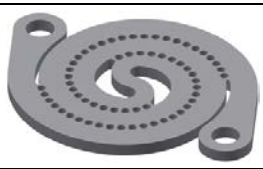


Sticky Tape



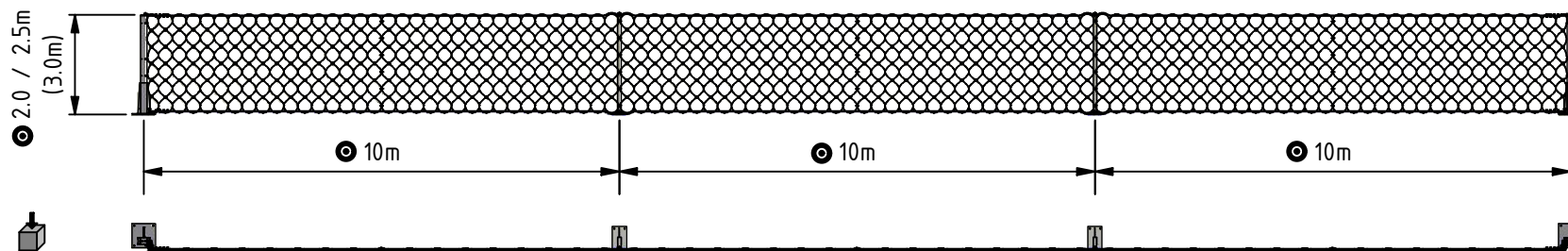
Lashing Tape

PARTS

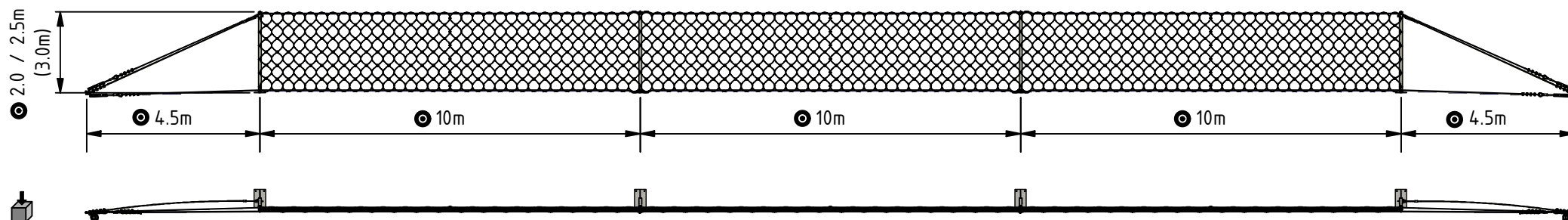
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	Post	RHP 160 160x80x4	☒	☒	☒
	Lateral post	RHP 160 160x80x4	☐	☒	☒
	Lateral post	HEA 140	☒	☐	☐
	Rope guidance		☐	☐	☒
	SIMPLEX 18/0.75		☐	☒	☐
	ISODISK 25		☐	☐	☒
	Support Ropes (blue marked)	Ø16mm L= variable	☒	☒	☒
	Suspension Cable (marked black)	Ø12mm L= 10.0m	☐	☒	☒
	Shackle [US N RR-C-271/ EN 13889]	3/8" (1.0 to) 1/2" (2.0 to) 5/8 (3.25 to) 3/4" (4.80 to)	☒	☒	☒

	Wire Rope Clip [EN13411-5]	N° 12 N° 16			
	Flexnet	250x250mm Ø8mm			
	Wire mesh + Binding wire (optional)				

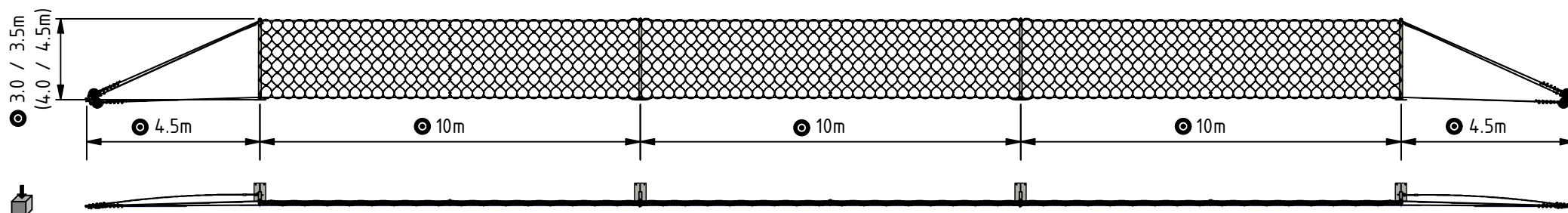
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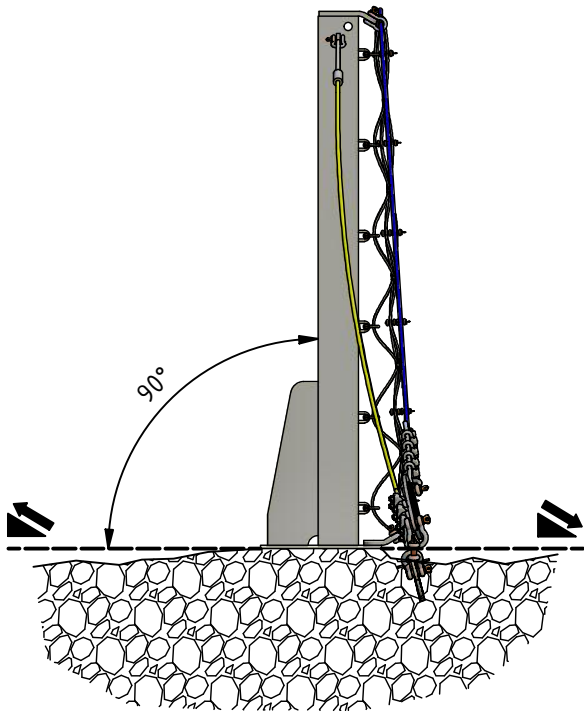
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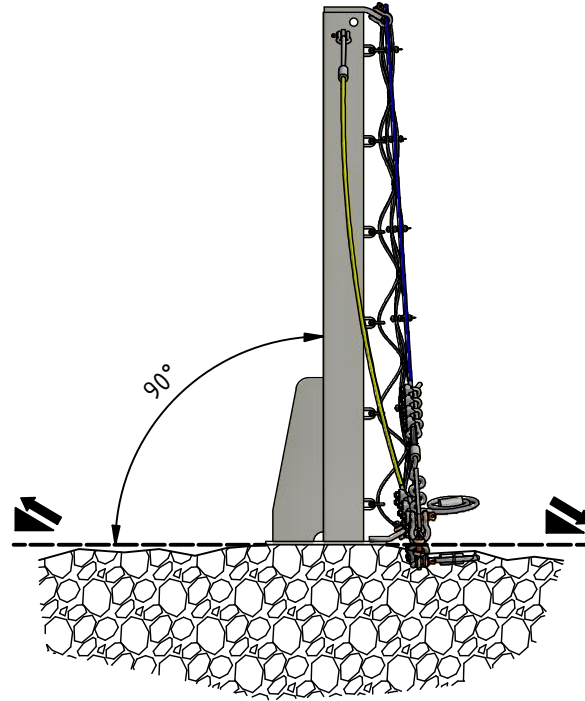
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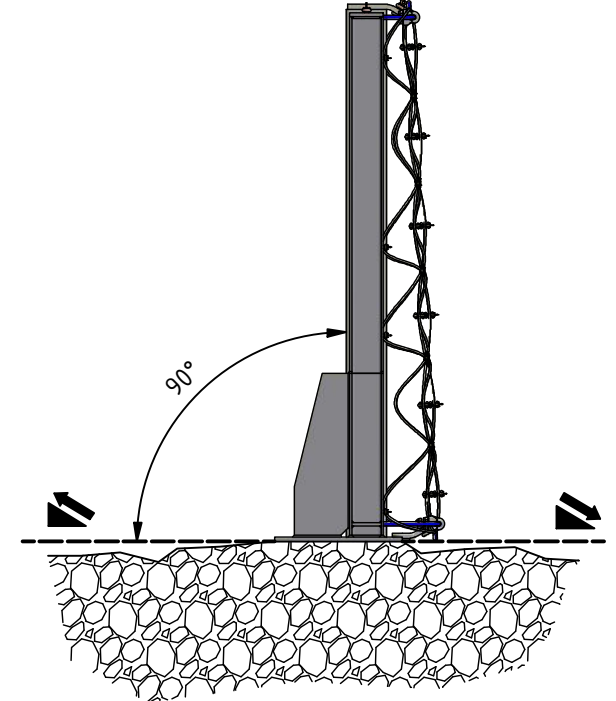
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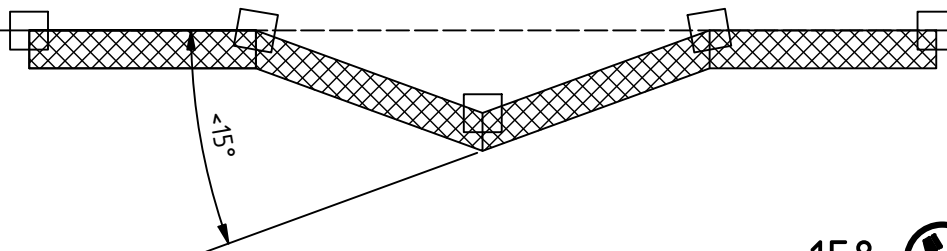


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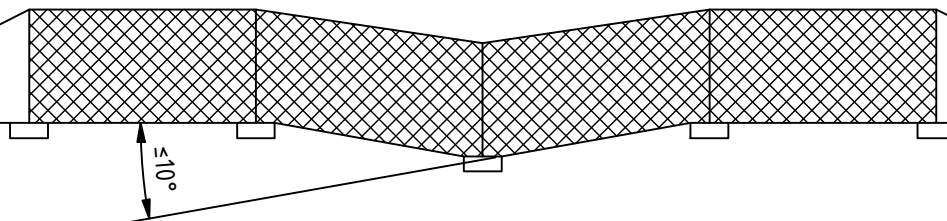
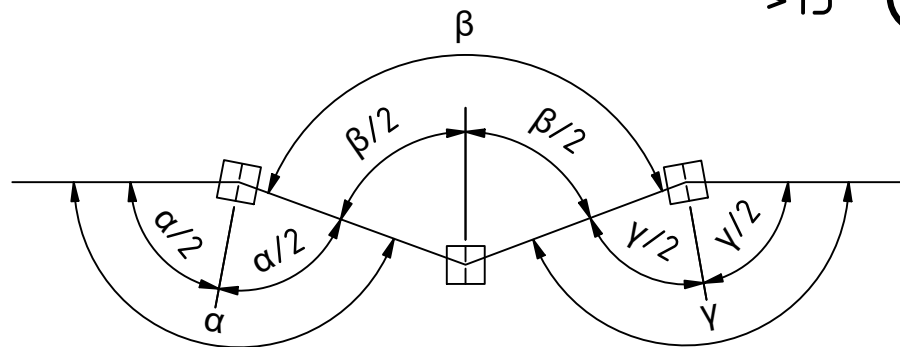


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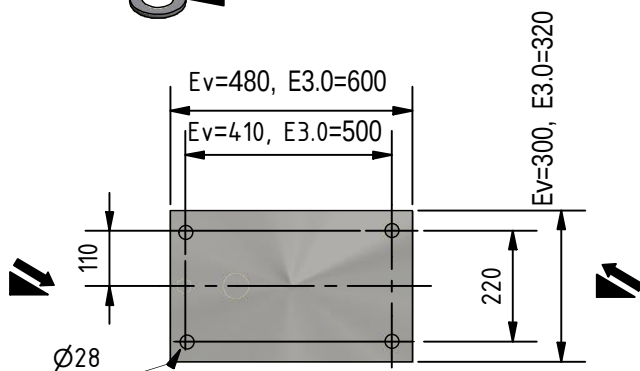
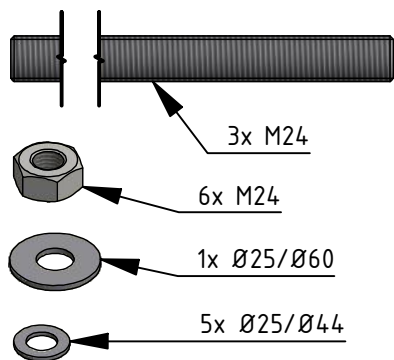
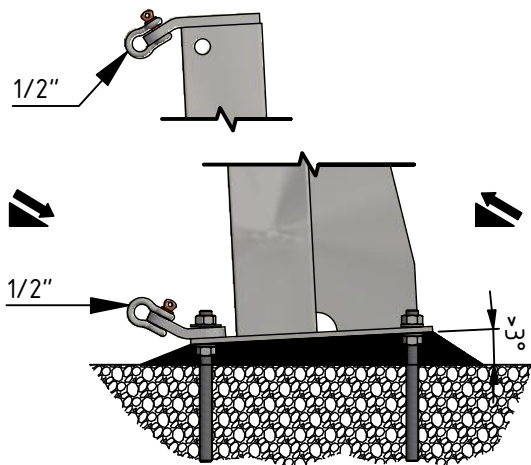
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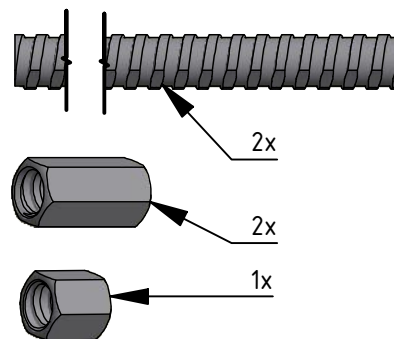
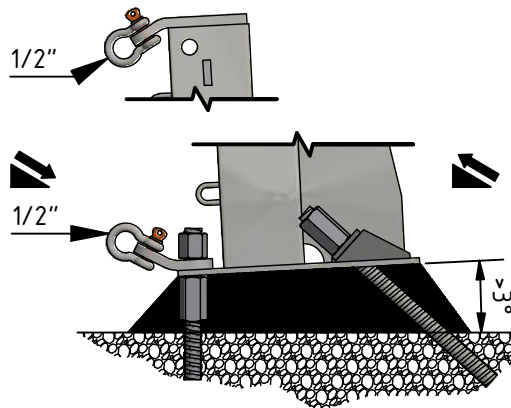
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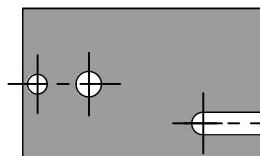
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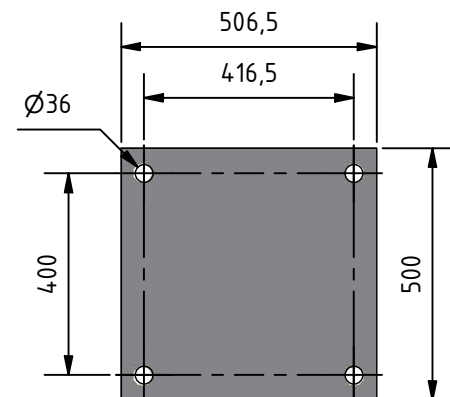
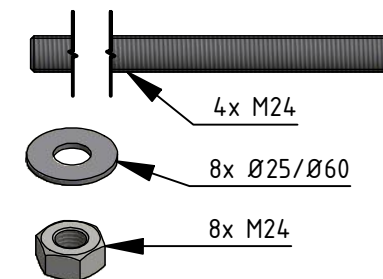
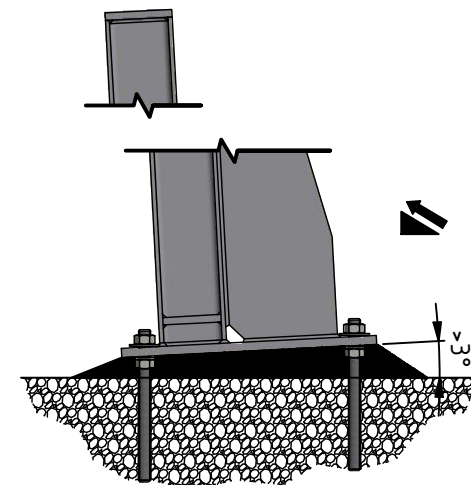
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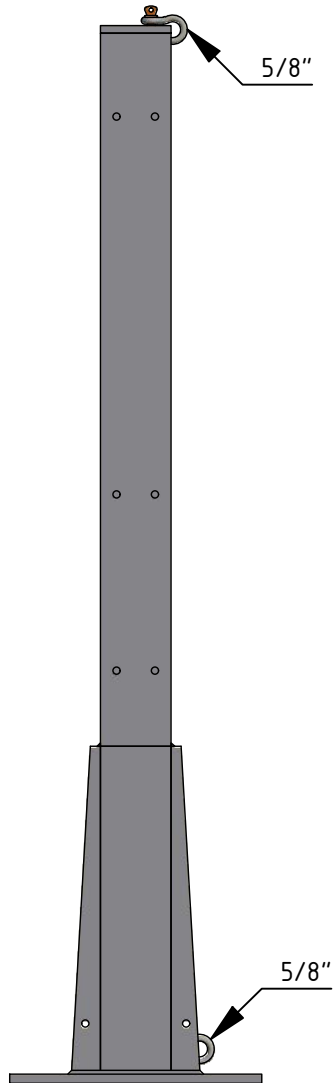
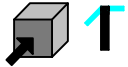
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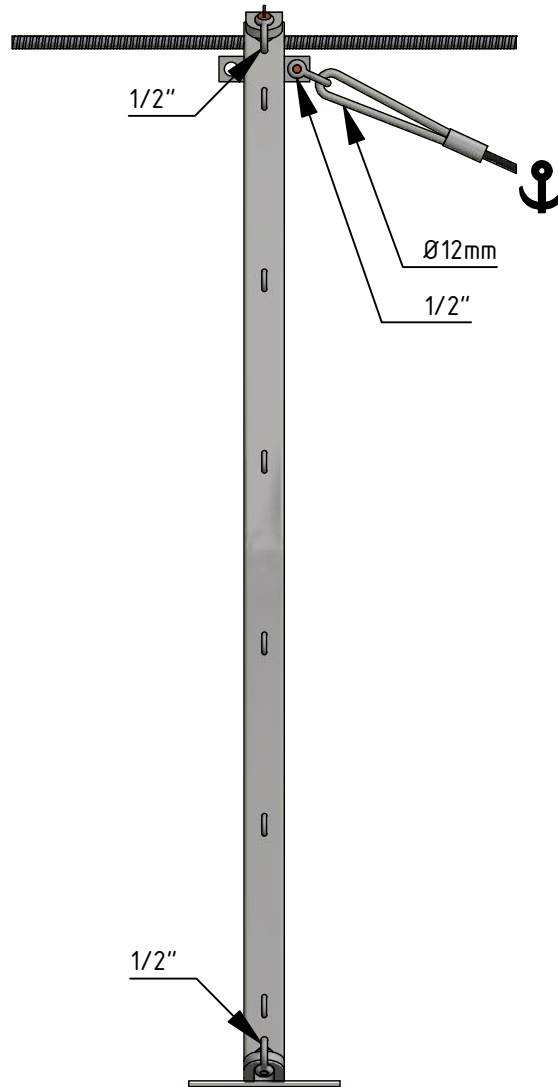
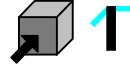
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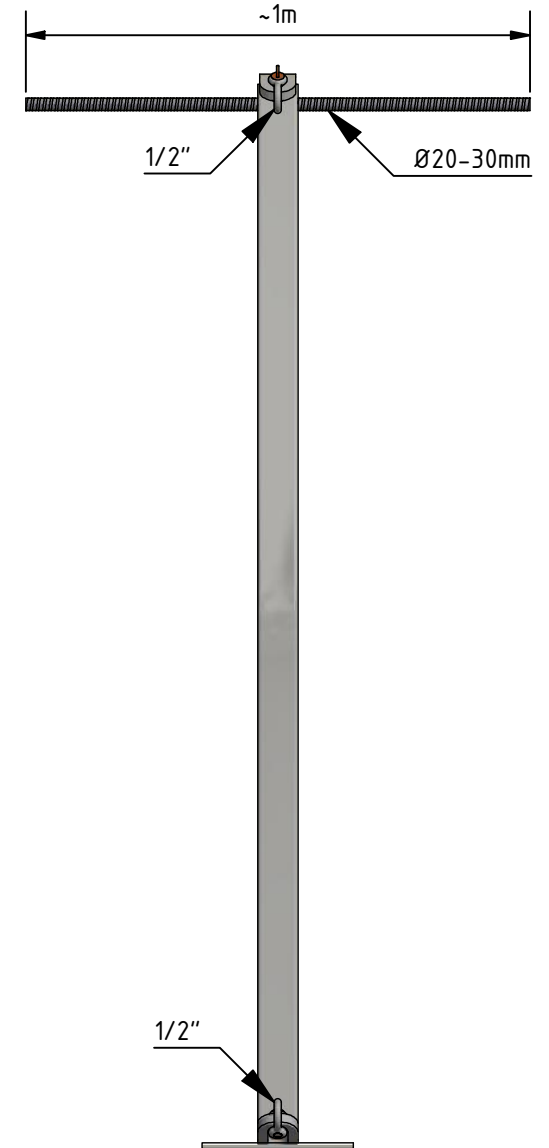
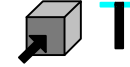
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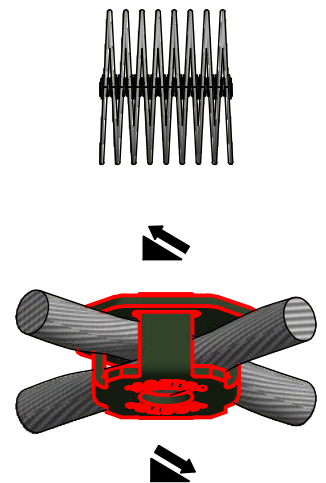
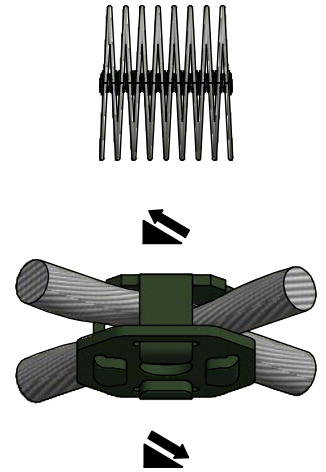
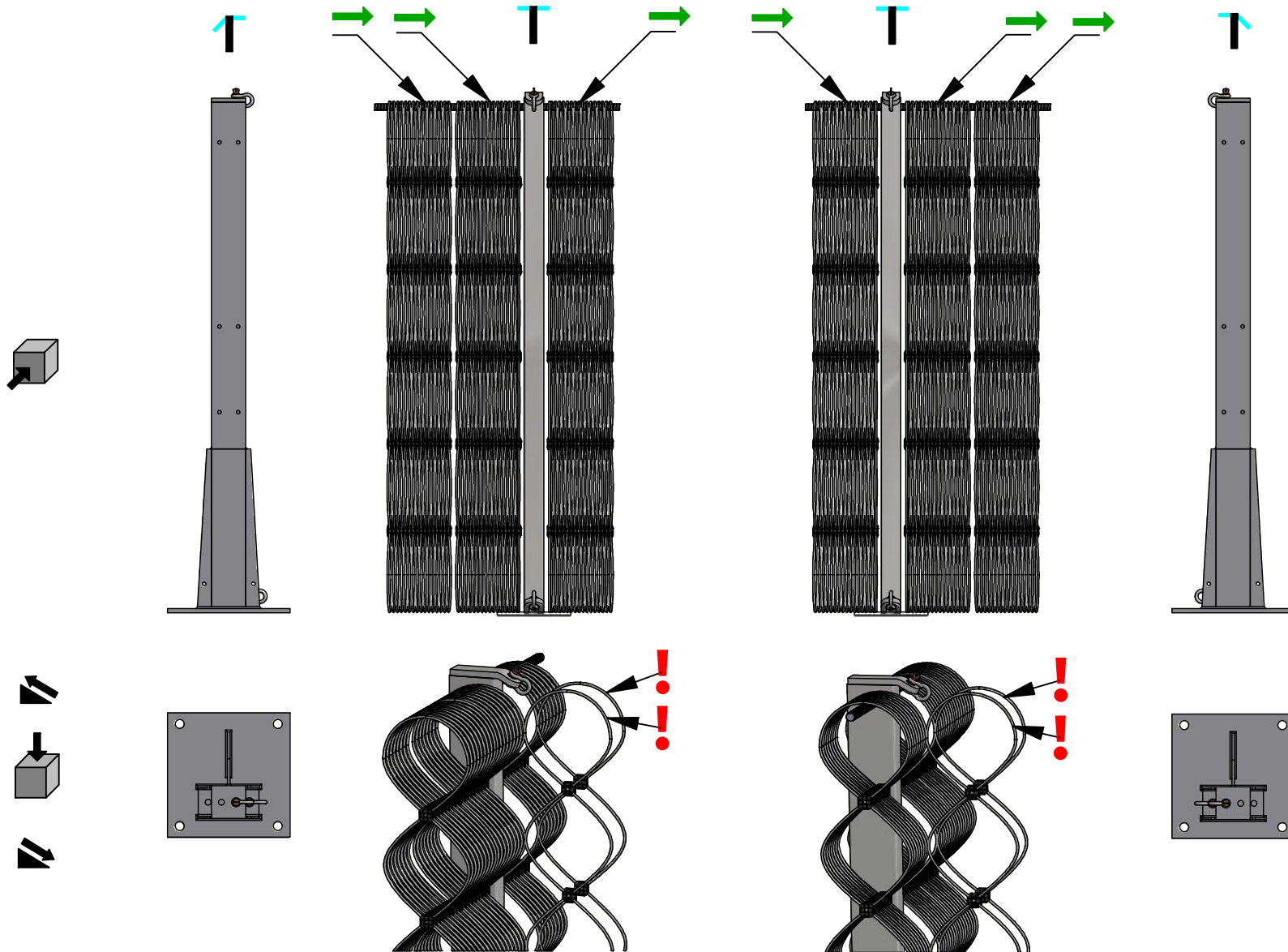


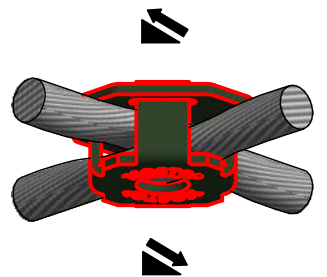
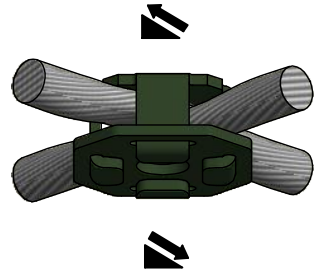
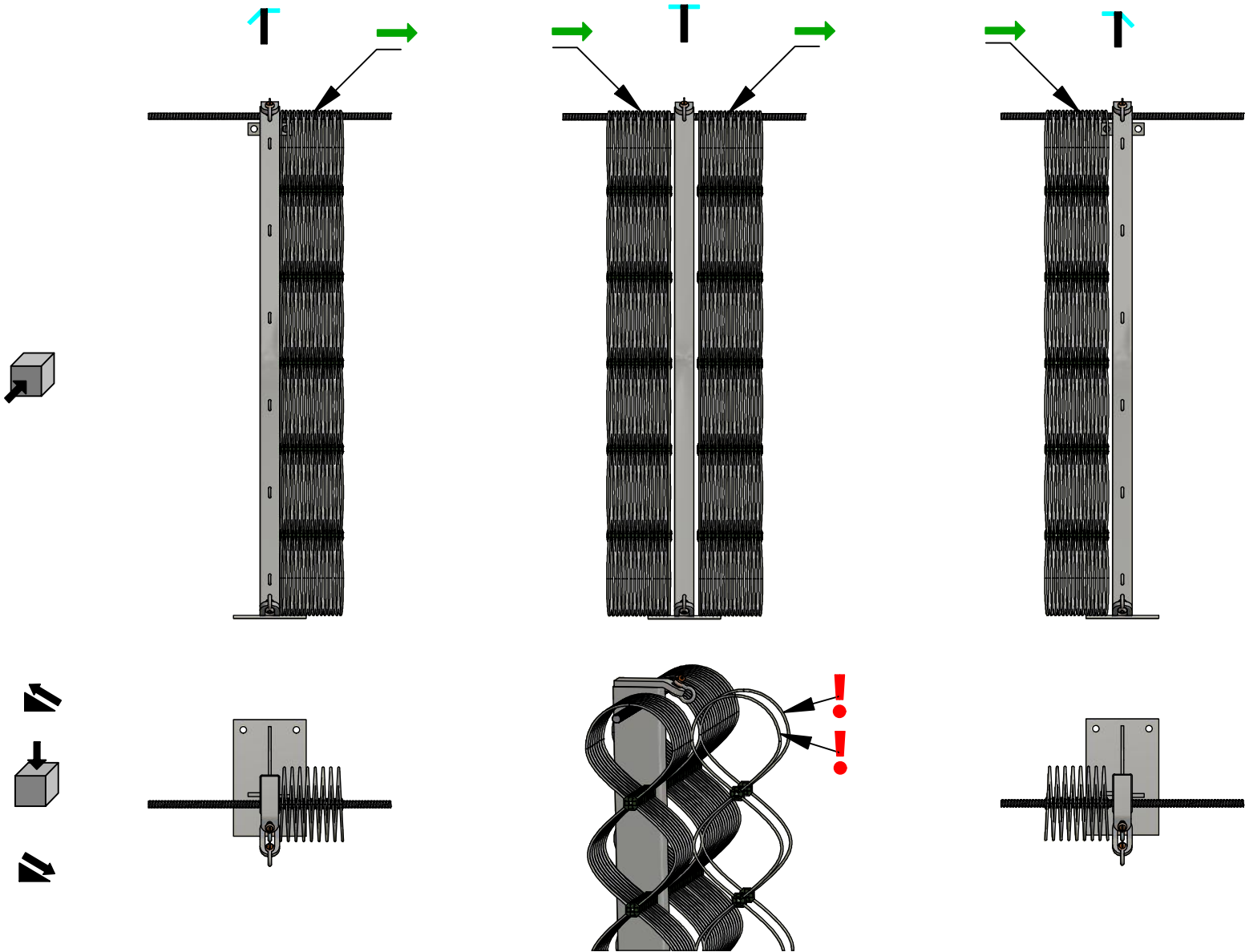
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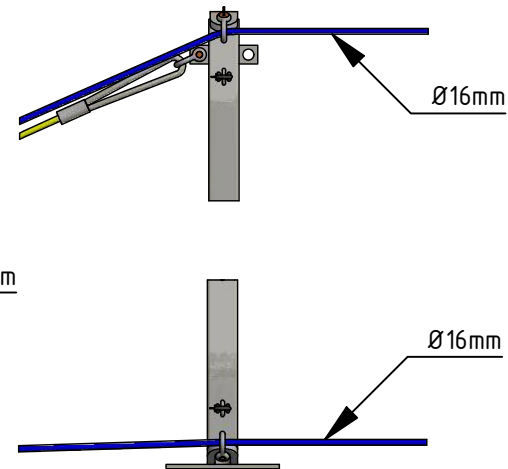
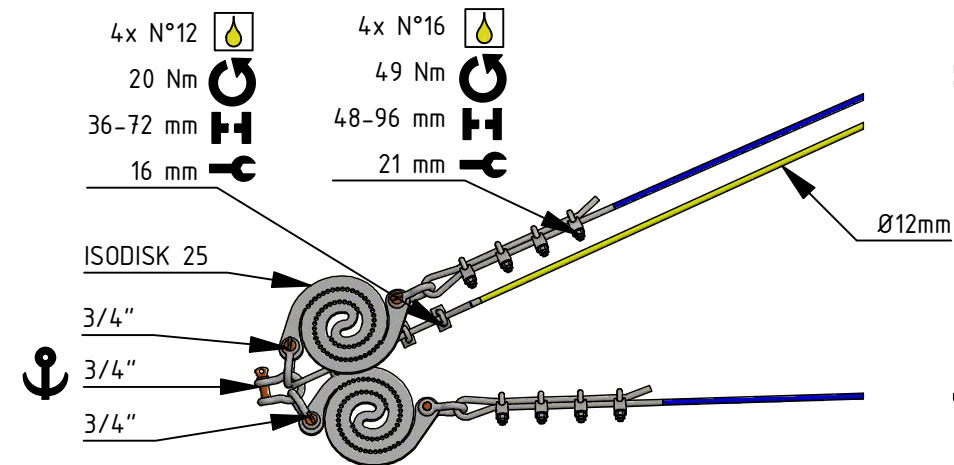
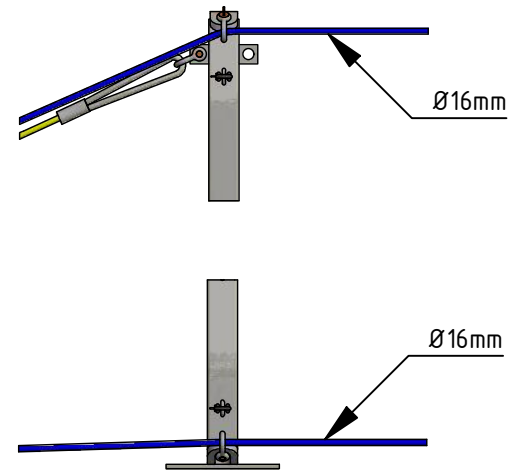
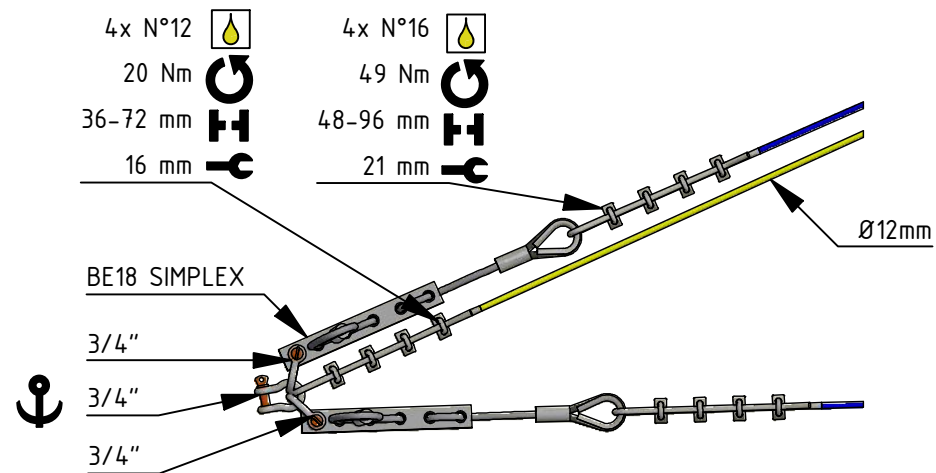


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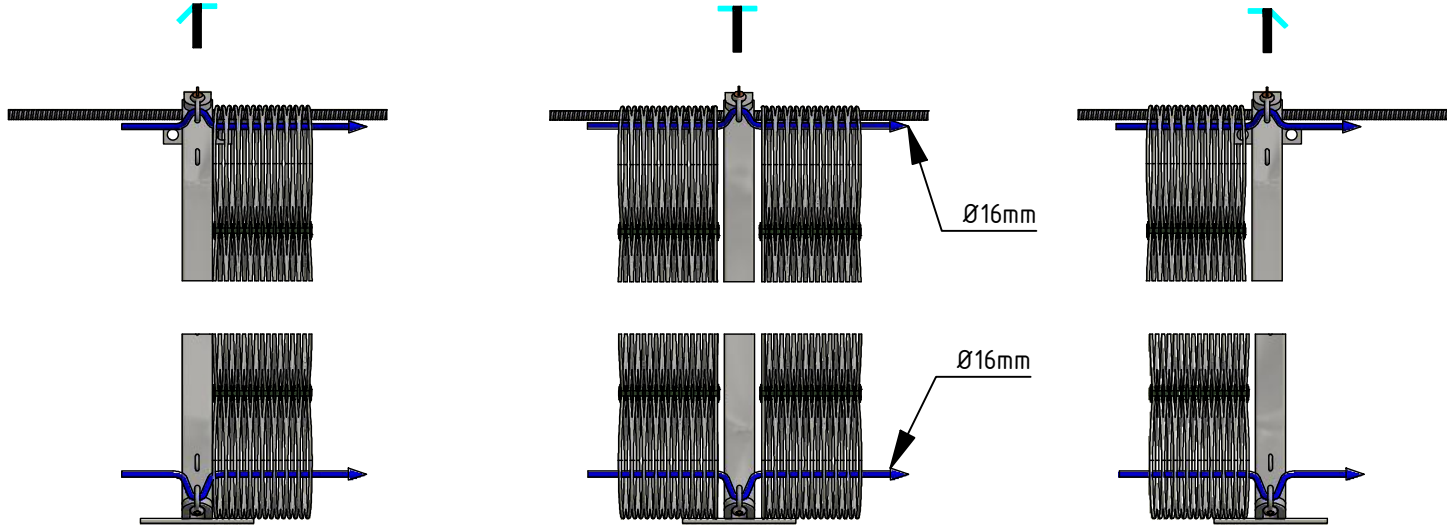




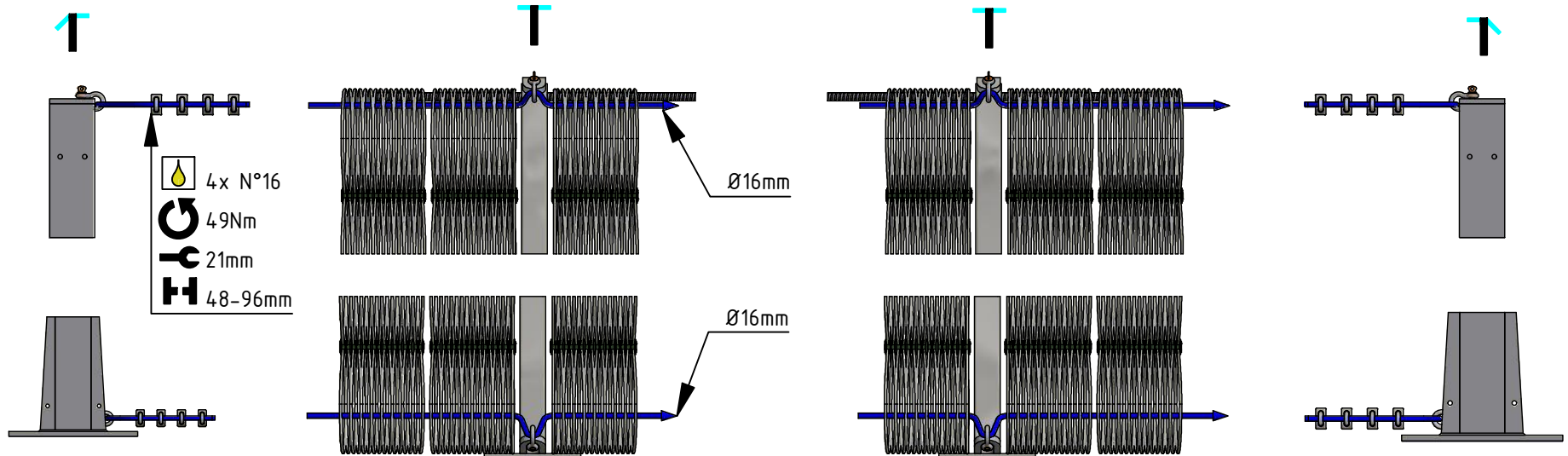




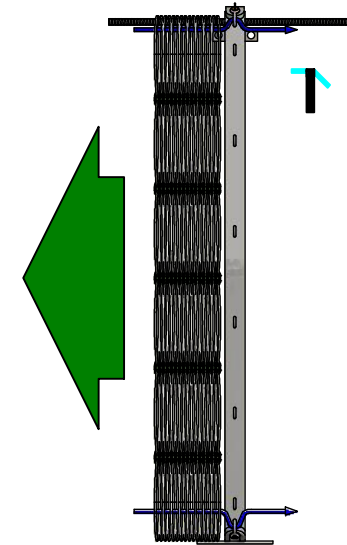
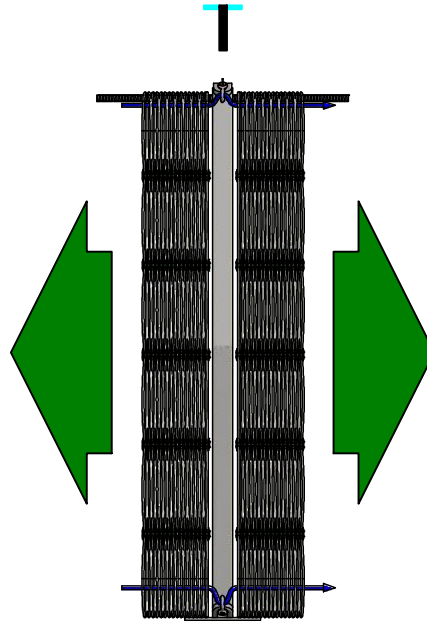
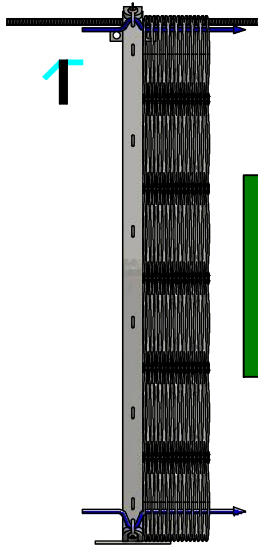
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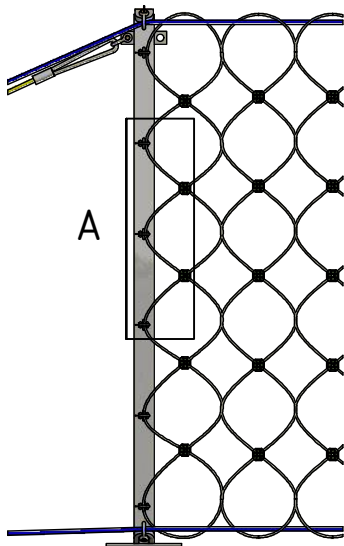
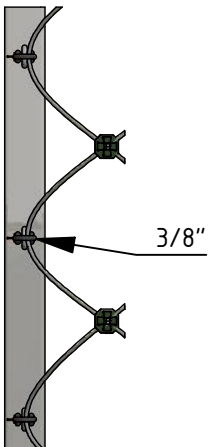
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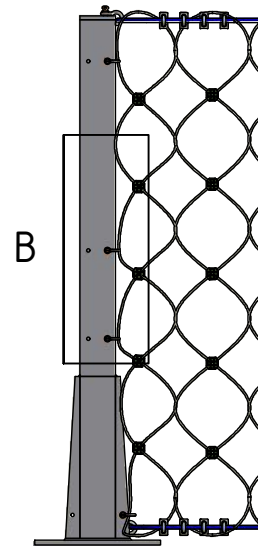
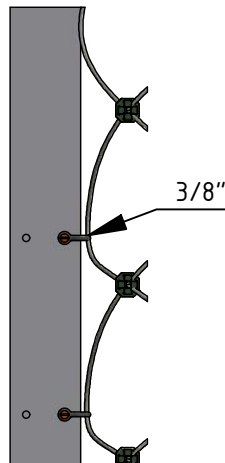
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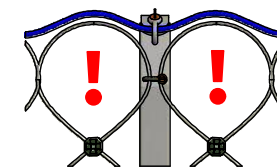
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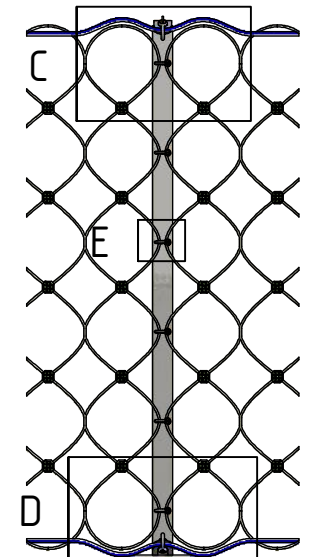
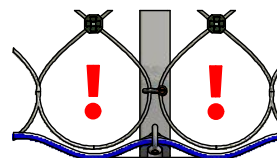
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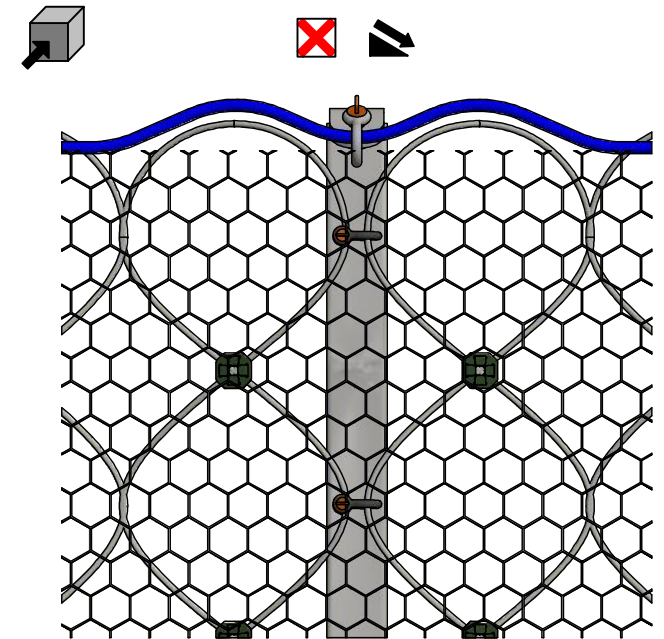
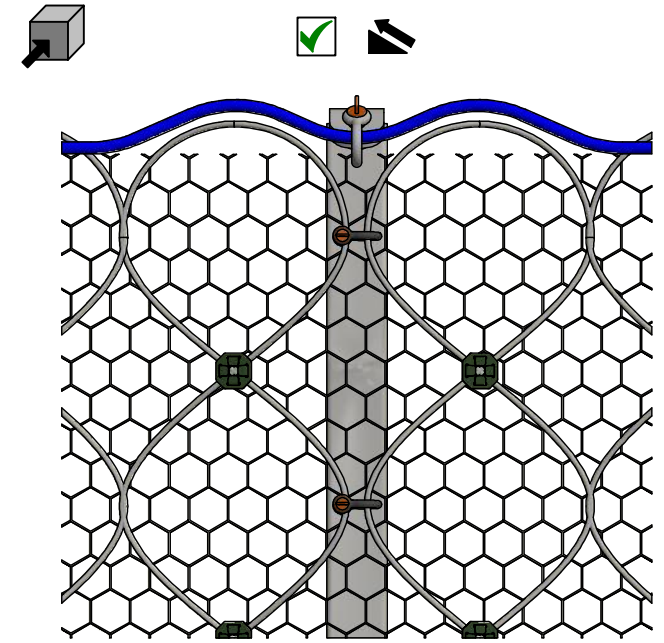
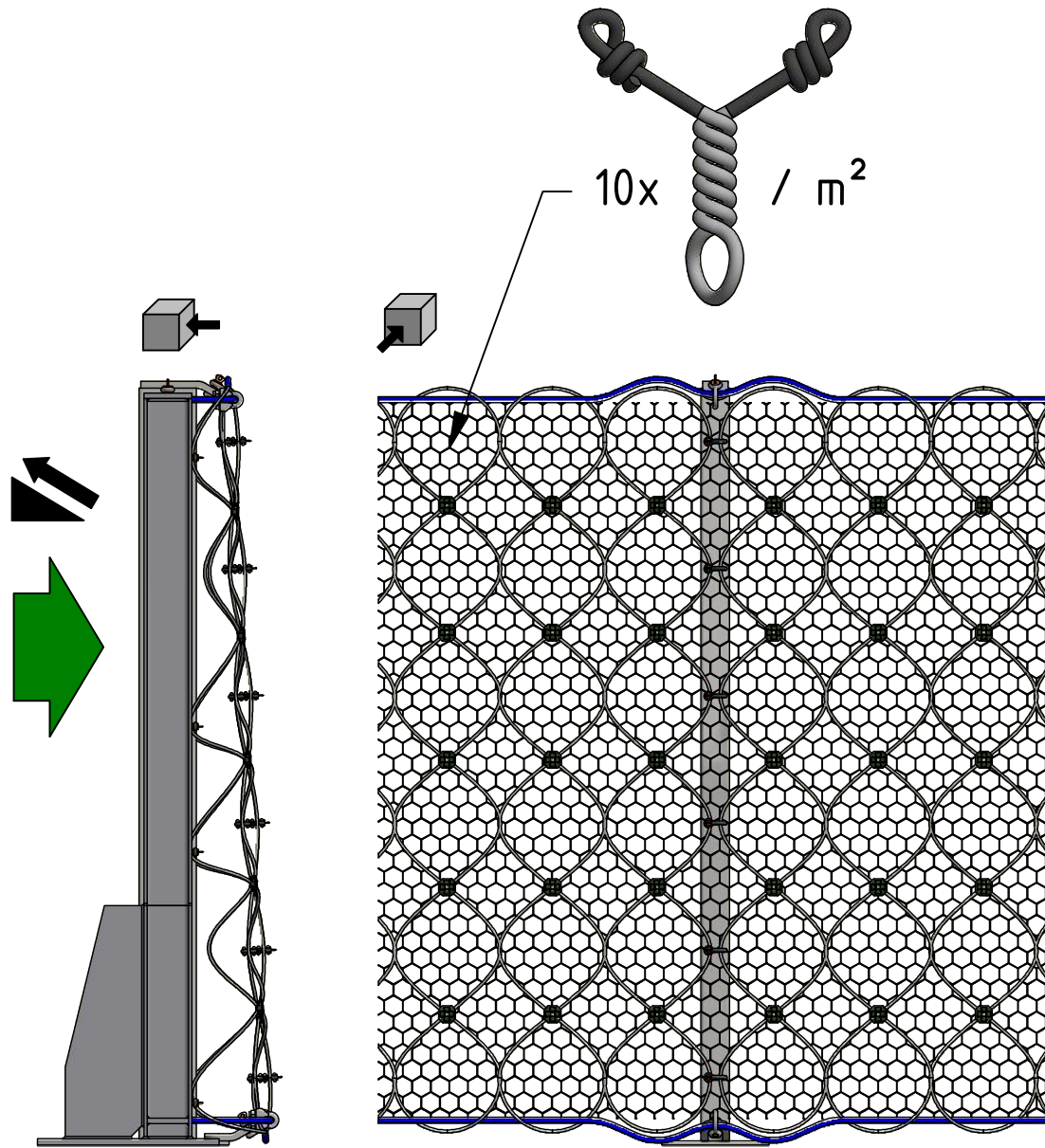


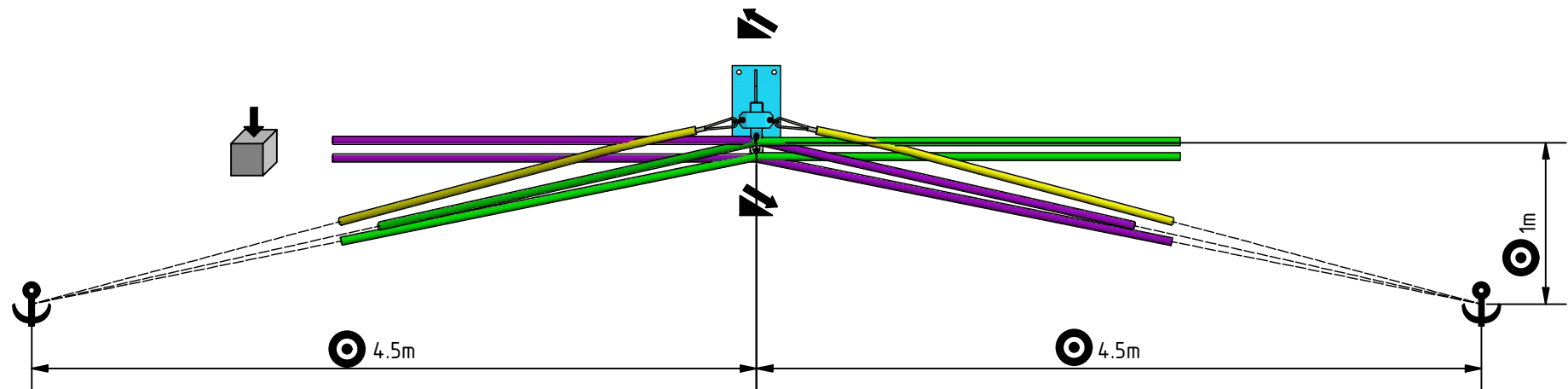
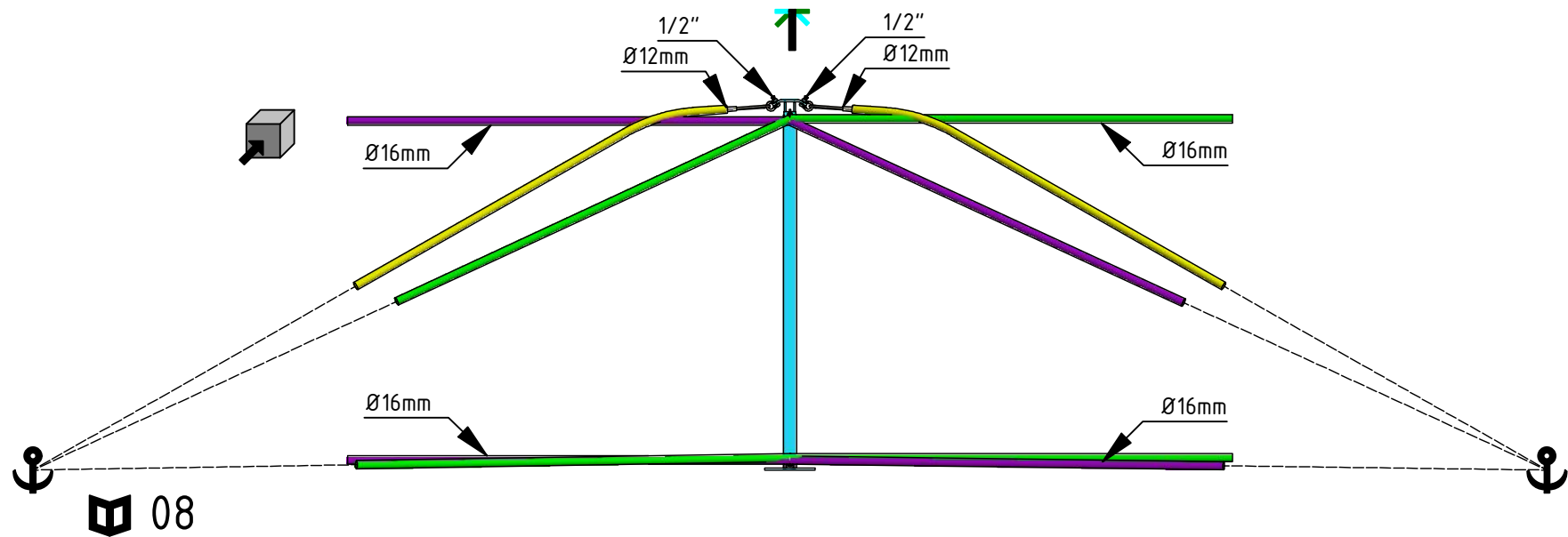
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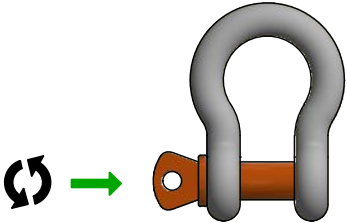
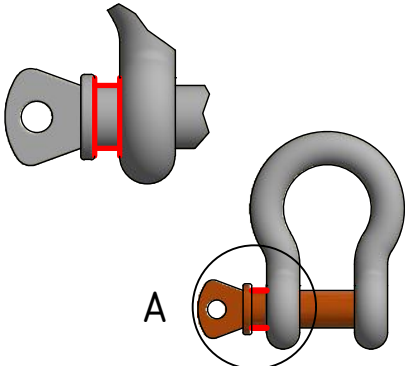
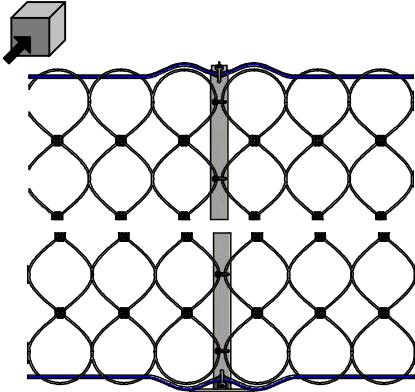
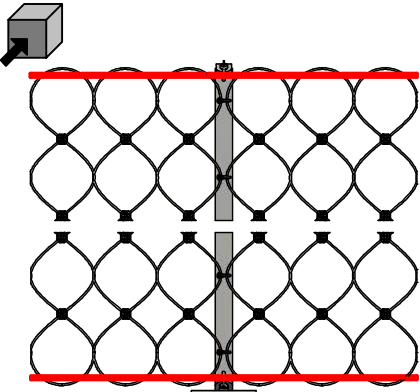
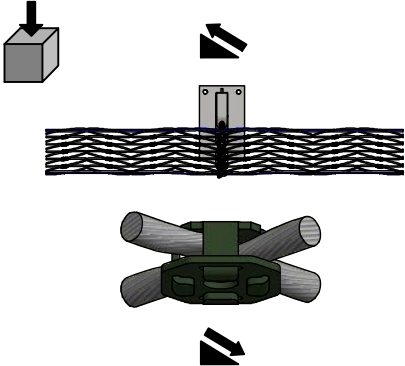
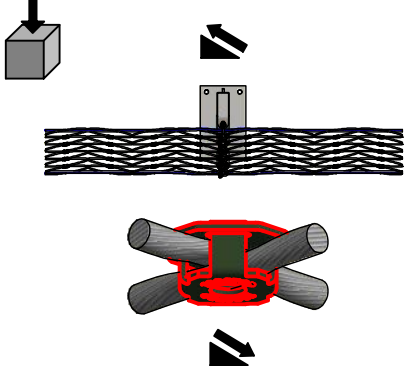
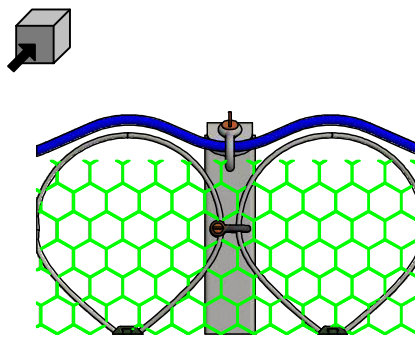
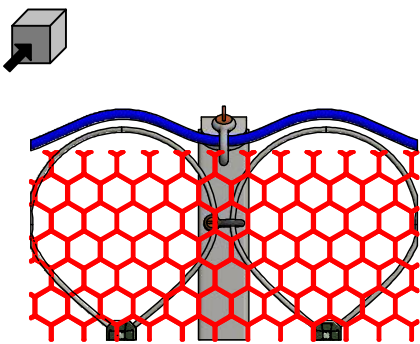
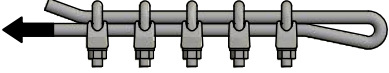
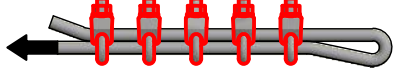
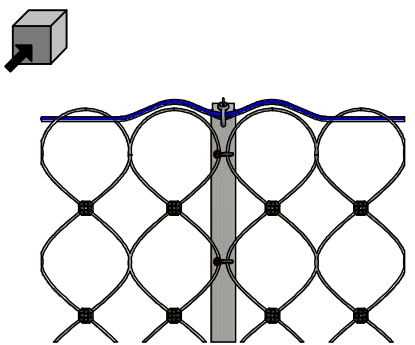
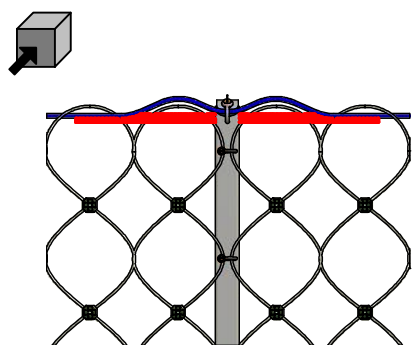


D (1 : 20)







					
		-			16
		12			17
		14			-
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