

MAC.RO. SYSTEM
ROCKFALL PROTECTION NETTING

LEGEND

TEXT SETTING

TYPE	CHARACTER	HEIGHT
TITLE	ARIAL	3.0 mm
SUBTITLE	ARIAL	2.5 mm
COMMENTS	ARIAL	2.0 mm
DIMENSION	ARIAL	2.0 mm

PEN SETUP FOR PLOTTING

PEN	THICKNESS
1	0.1
2	0.30
3	0.25
4	0.35
5	0.5
6	0.6
7	0.2
8	0.4
9	0.2
10	0.2
128	0.2
252	0.2
254	0.2

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					Drawing Title: MAC.RO. SYSTEM SIMPLE NETTING AND DRAPERY SYSTEMS	Designed:	Date:	TYPICAL DRAWING	MACCAFERRI OFFICINE MACCAFERRI S.p.A. Via Agresti, 6 - 40123 Bologna - Italia Tel. ++39 051 6436000 - Fax ++39 051 236507 e-mail: comes.officine@maccaferri.com - Website: www.maccaferri.com
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					Drawing No: Sheet 00	Rev: 00	Approved: F. Ferraiolo	Date: 15/06/05	
					Rev:	Issue / Revision:	Drawn:	App:	

NOT FOR CONSTRUCTION

TECHNICAL TABLE - MAC.RO. SYSTEM - ROCKFALL NETTING

1- ROCKFALL NETTING DIMENSIONING TABLE

L = Length (m)	H = Height (m)
25	2, 3, 4
50	2, 3, 4
100	2, 3, 4

2 e 3- STANDARD MESH TYPES TABLE

MESH			Ø WIRE (mm)	
TYPE	D (mm)	TOLERANCE	TYPE	EDGING
8 X 10	80	+16% -4%	3.00	3.4

4 - TOLERANCES AND WIRE'S COATINGS TABLE

Ø WIRE (mm)	2.20	2.40	2.70	3.00	3.40	3.90
TOLERANCE WIRE (±) Ø mm	0.06	0.06	0.06	0.07	0.07	0.07
LOWEST QUANTITY OF GALFAN (gr/m ²)	230	230	245	255	265	275

5 - FINISHED PRODUCTS TOLERANCE TABLE

TYPE	LENGHT	WIDTH	WEIGHT
WIRE'S MESH	0 / +1%	± D	± 5%
COILS			

1- ROCKFALL STEEL MESH WITH PVC DIMENSIONS TABLE

L = Length (m)	H = Height (m)
25	2, 3, 4
50	2, 3, 4
100	2, 3, 4

2 - STANDARD COMBINATIONS TABLE

MESH		WIRE'S DIAMETER (mm)	
TYPE	Ø (mm)	TOLERANCE	MESH
8 X 10	80	+16% -4%	2.70 / 3.70

3 - WIRE DIAMETER STANDARD TYPES

MESH TYPE	WIRE'S MESH (mm)	EDGING WIRE (mm)	BINDING WIRE (mm)
8 X 10	INT. 2.70 - EST. 3.70	INT. 3.40 - EXT. 4.40	INT. 2.20 - EXT. 3.20

4 - TOLERANCES AND WIRE'S COATING TABLE

Ø WIRE (mm)	2.20	2.40	2.70	3.00	3.40	3.90
TOLERANCE OF WIRE (±) Ø mm	0.06	0.06	0.06	0.07	0.07	0.07
LOWEST QUANTITY OF GALFAN (gr/m ²)	230	230	245	255	265	275

5 - FINISHED PRODUCT TOLERANCE TABLE

TYPE	LENGHT	WIDTH	WEIGHT
WIRE'S MESH	0 / +1%	± D	± 5%
COILS			

TECHNICAL TABLE - MAC.RO. STYSTEM - STEEL ROCKFALL
GEOCOMPOSITS "STEELGRID"
STEEL WIRE MESH WARPED WITH STEEL CABLES

1 - STANDARD TYPES TABLE

TYPES	Length (m)	Height (m)	Vertical Cables Spacing (m)	Cross Cables Spacing (m)
STEELGRID MO	25-50	3.00	1.50	-
STEELGRID BO 100			1.00	1.00
STEELGRID BO 150			1.50	1.50
STEELGRID BO 300			-	3.00

2 - STANDARD MESH-WIRE COMBINATIONS TABLE

TYPES	D (mm)	Ø WIRE (mm)
8 X 10	80	3.00

3 - WIRE DIAMETER STANDARD TYPES

WIRE'S MESH (mm)	3.00
WIRE'S TOLERANCE (±) Ø (mm)	0.07
LOWEST QUANTITY OF GALFAN	255
LONG. & CROSS CABLE AMZ Ø (mm)	8.00

4 - FINISHED PRODUCT TOLERANCE TABLE

TYPES	LENGHT	WIDTH	WEIGHT
STEEL WIRE MESH WARPED WITH STEEL CABLES IN COILS	0 / +1%	± D	± 5%

TECHNICAL TABLE - MAC.RO. STYSTEM - HEA PANEL
ROCKFALL PANELS WITH STEEL CABLES

1 - DIMENSIONS TABLE

L=LENGHT (mm)	H=HEIGHT (mm)
5 - 6	3

2 - STANDARD COMBINATIONS TABLE

TYPE	Ø EDGING CABLE (mm)	Ø PERIMETRICAL CABLE (mm)
400x400	10	0 - 10
300x300	10	0 - 10

3 - TOLERANCES AND COATING OF CABLE FORMED JUNCTION

Ø WIRE (mm)	3.00
TOLERANCE OF WIRE (±) Ø mm	0.07
LOWEST QUANTITY OF GALFAN (gr/m ²)	255

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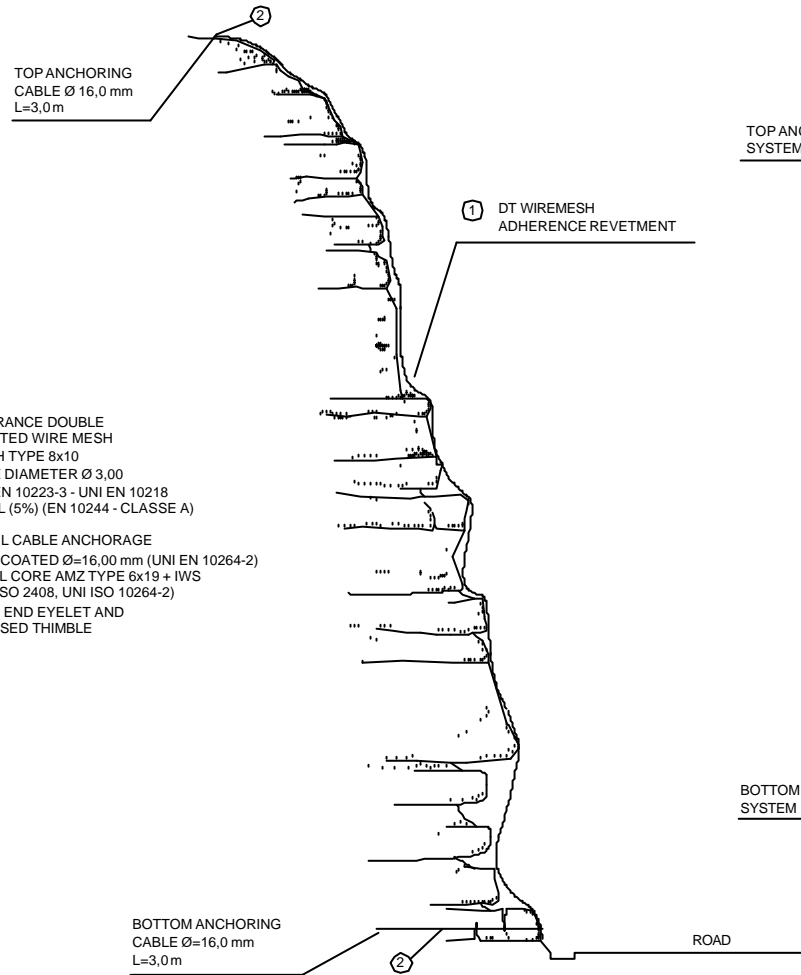
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				Scale:		Project No:		Drawn: R. Leprotti				Date: 15/06/05	
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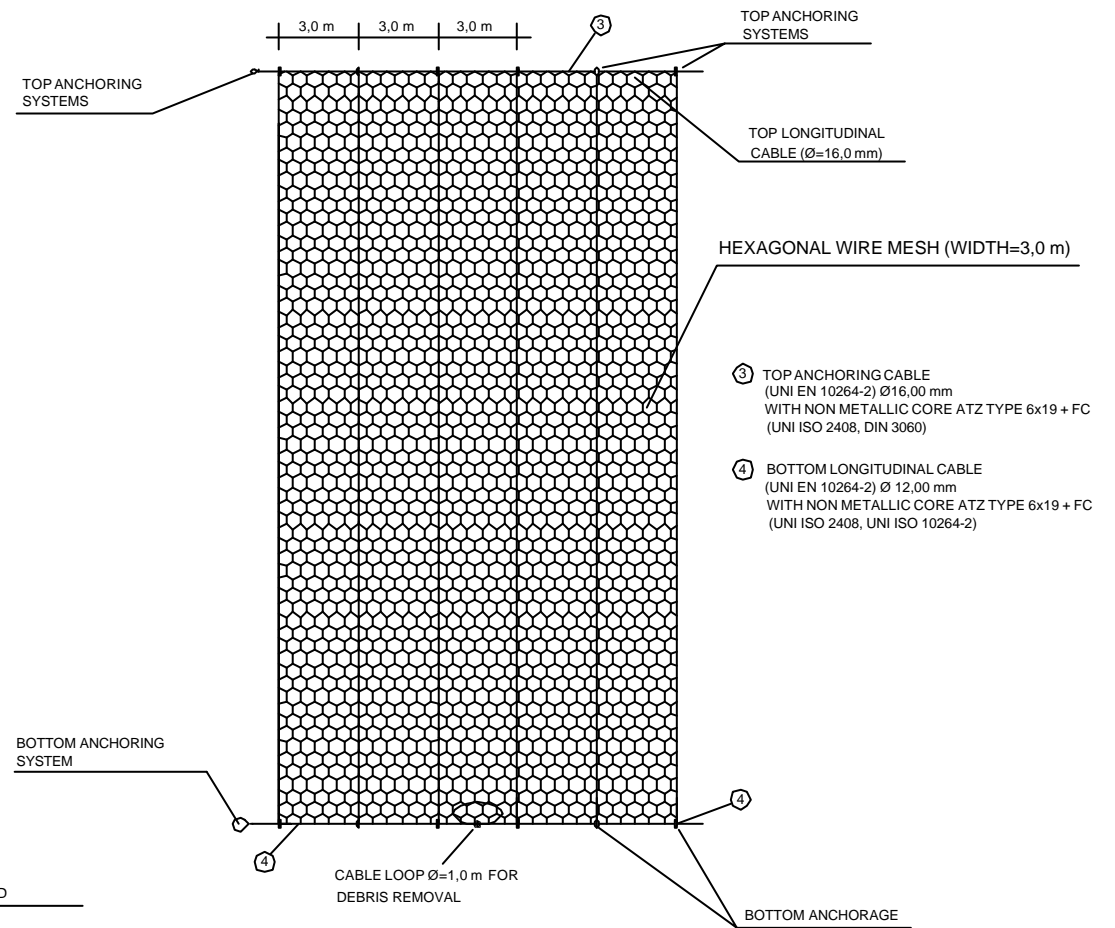
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MAC.RO. SYSTEM - SIMPLE DRAPERY DT MESH ADHERENCE REVETMENT

SLOPE CROSS SECTION



ANCHORING SYSTEM SCHEME



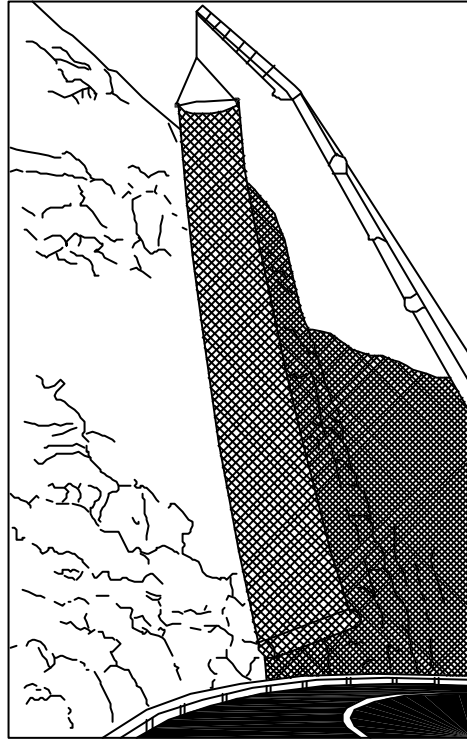
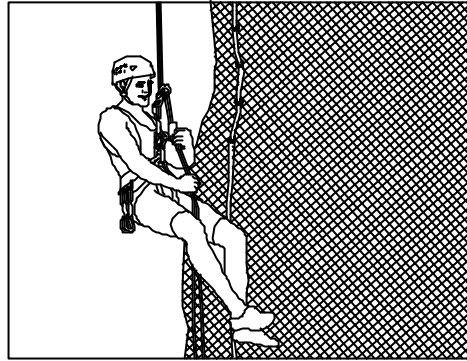
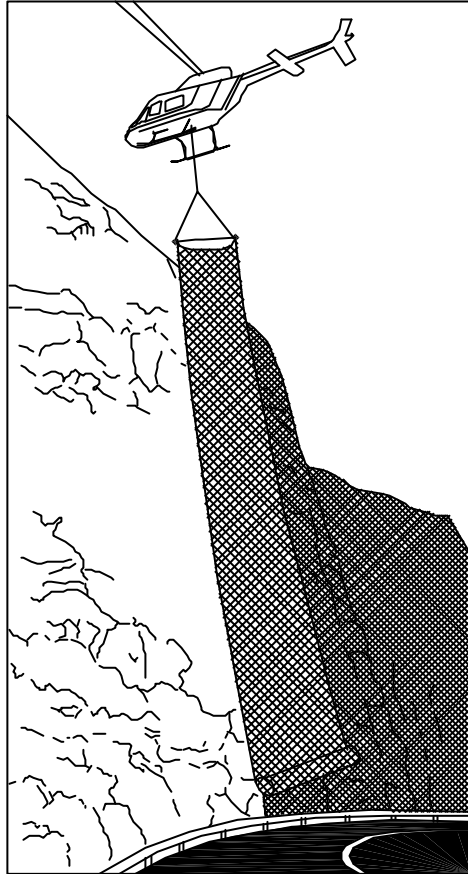
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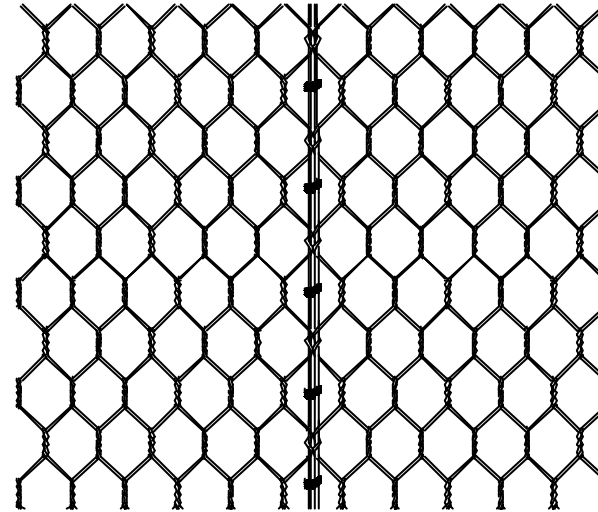


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INSTALLATION



LACING SIDE BY SIDE PANELS

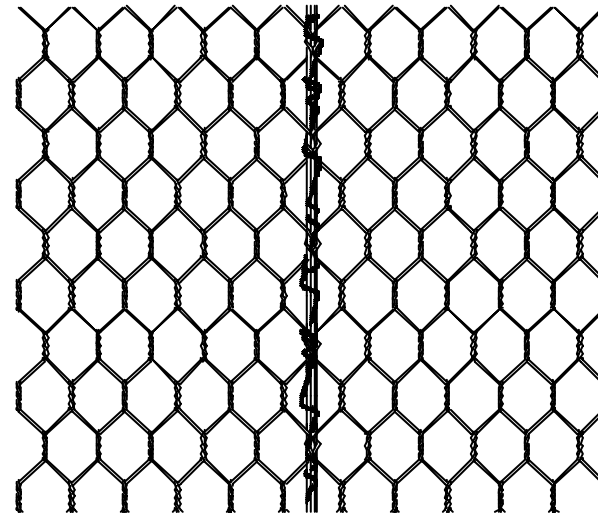


ALTERNATIVE WITH STEELRING

STEELRING
DETAIL



STEEL RING - Ø3,00 mm
170 Kg/mm² BREAKING LOAD



ALTERNATIVE WITH LACING WIRE

LACING WIRE - Ø 2,20 mm
AS PER UNI EN 10218 - 3
AND UNI EN 10218
Zn-Al (5%) COATED
AS PER EN 10244
CLASS A

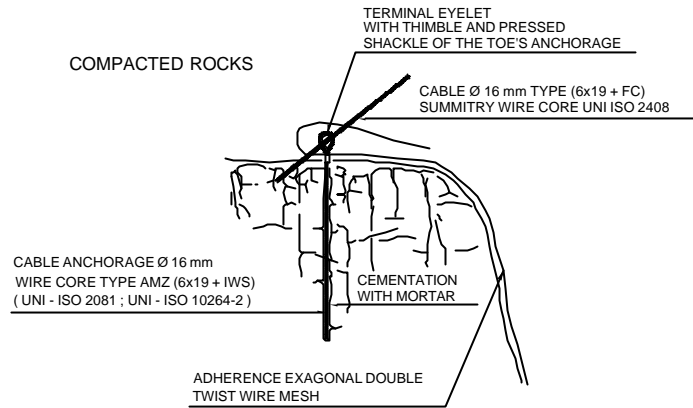
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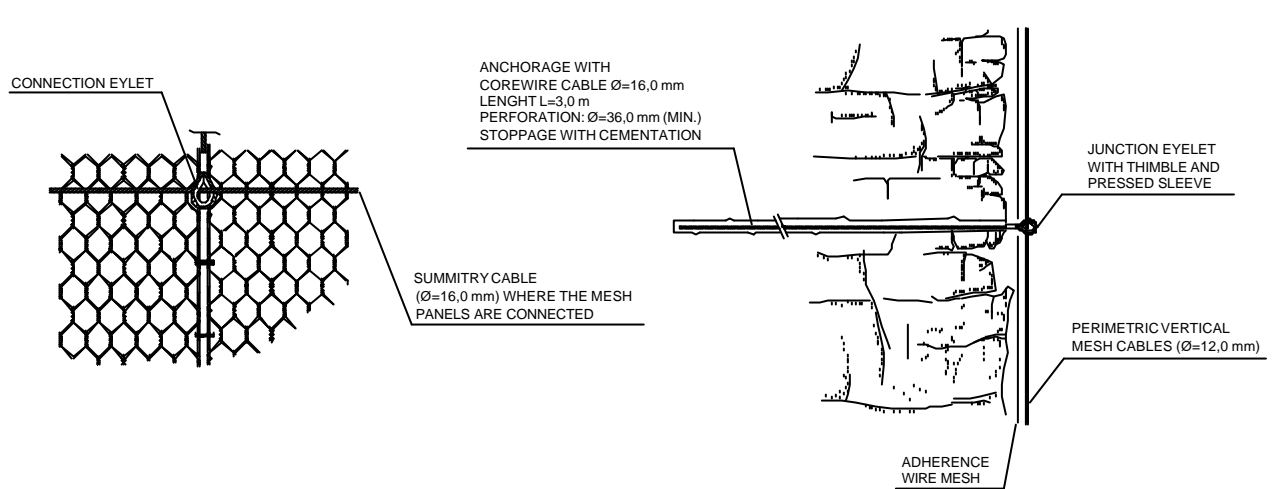


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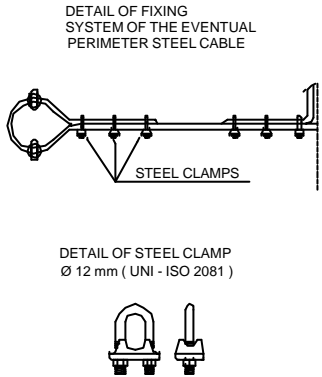
TOP ANCHORING SYSTEM



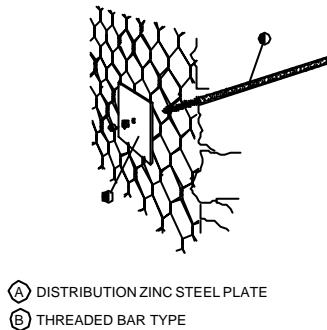
STEEL CABLE ANCHORAGE SYSTEM



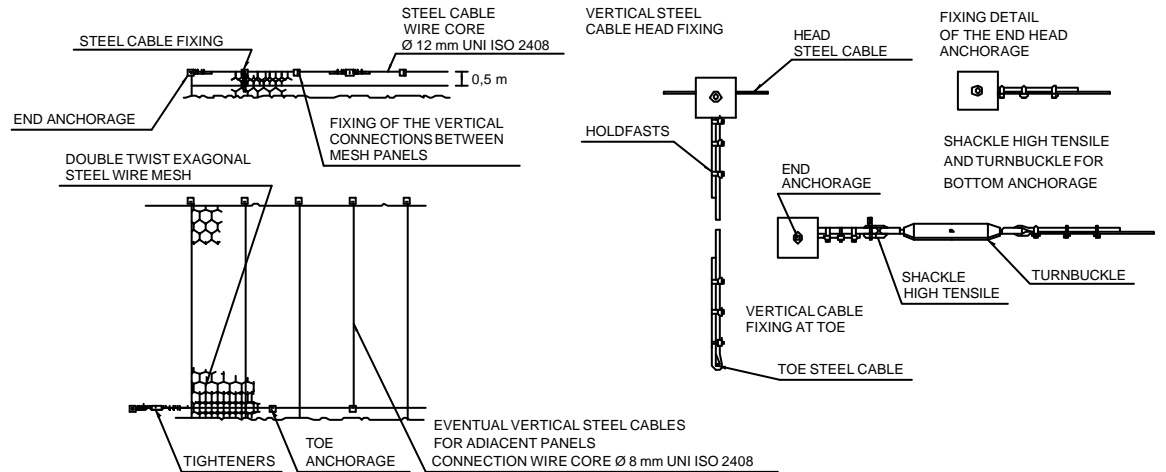
TOE ANCHORAGE SYSTEM



ADHERENCE DT STEEL WIRE MESH ANCHORED WITH BARS AND STEEL PLATE



ADHERENCE DT STEEL WIRE MESH ANCHORED TOP AND BOTTOM WITH NAILS, STEEL PLATES AND STEEL CABLE



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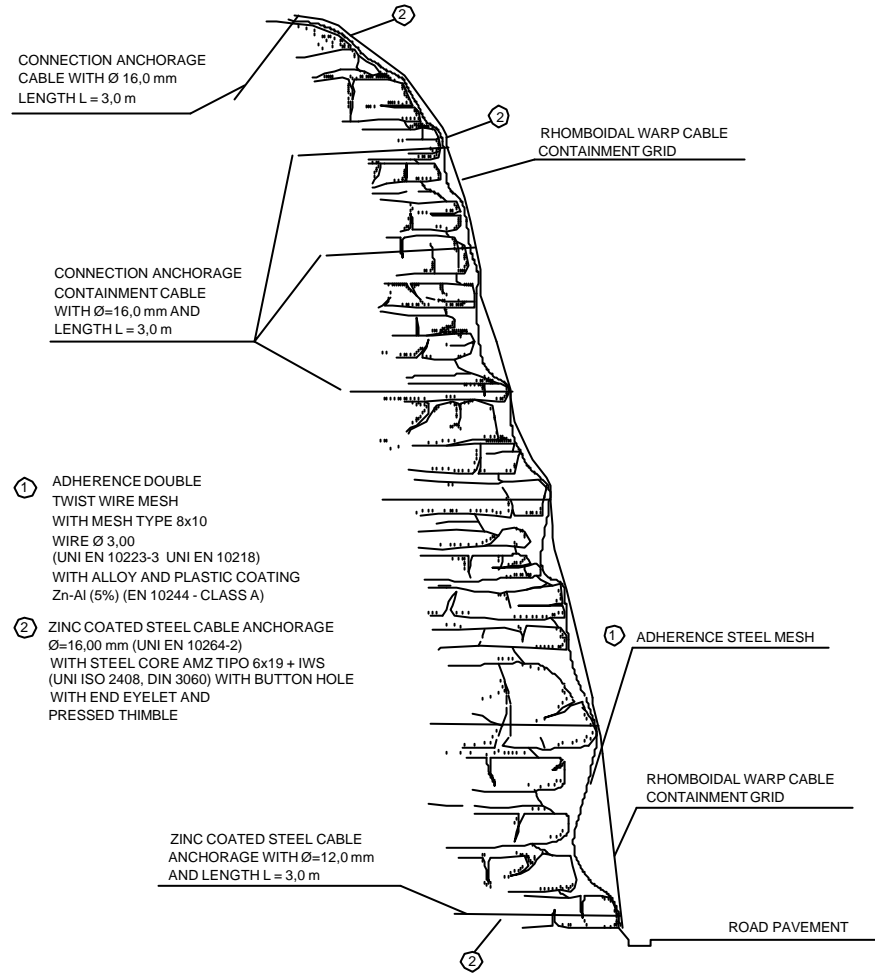
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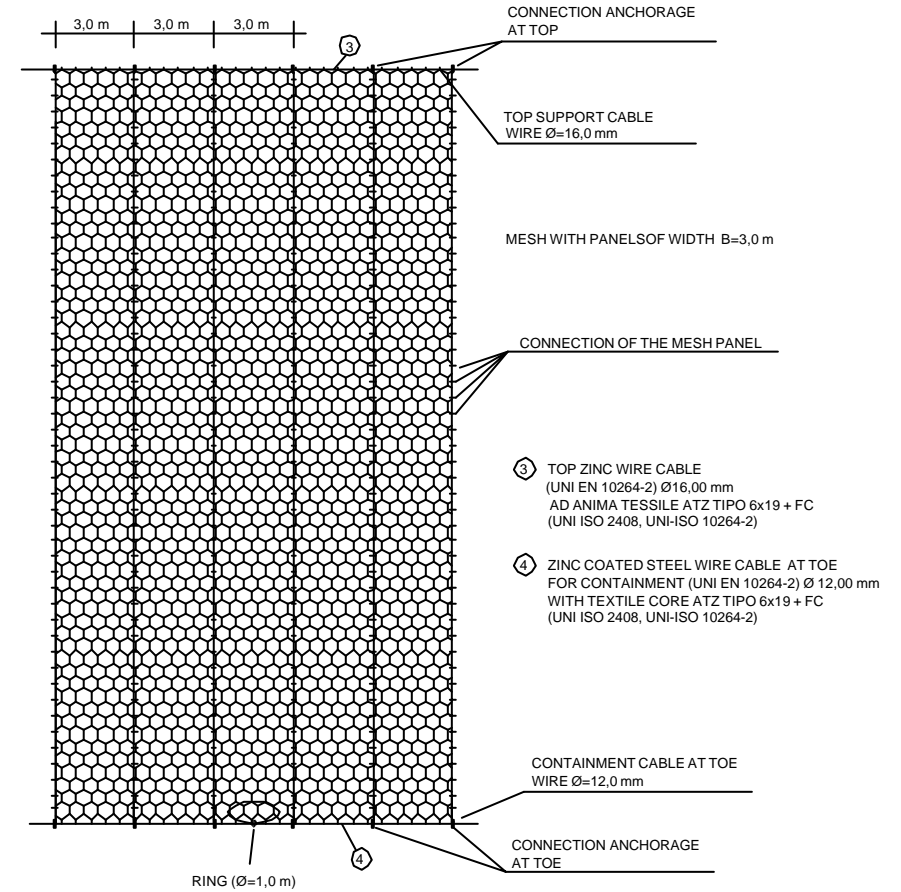
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MAC.RO. SYSTEM - DRAPERY SYSTEM
WITH DT STEEL WIRE MESH REINFORCED WITH STEEL CABLES

TYPICAL SECTION



CONNECTION ANCHORAGE LAYOUT
 AT TOP AND BOTTOM OF THE SLOPE
 LAYOUT AND CONNECTION OF THE MESH PANELS



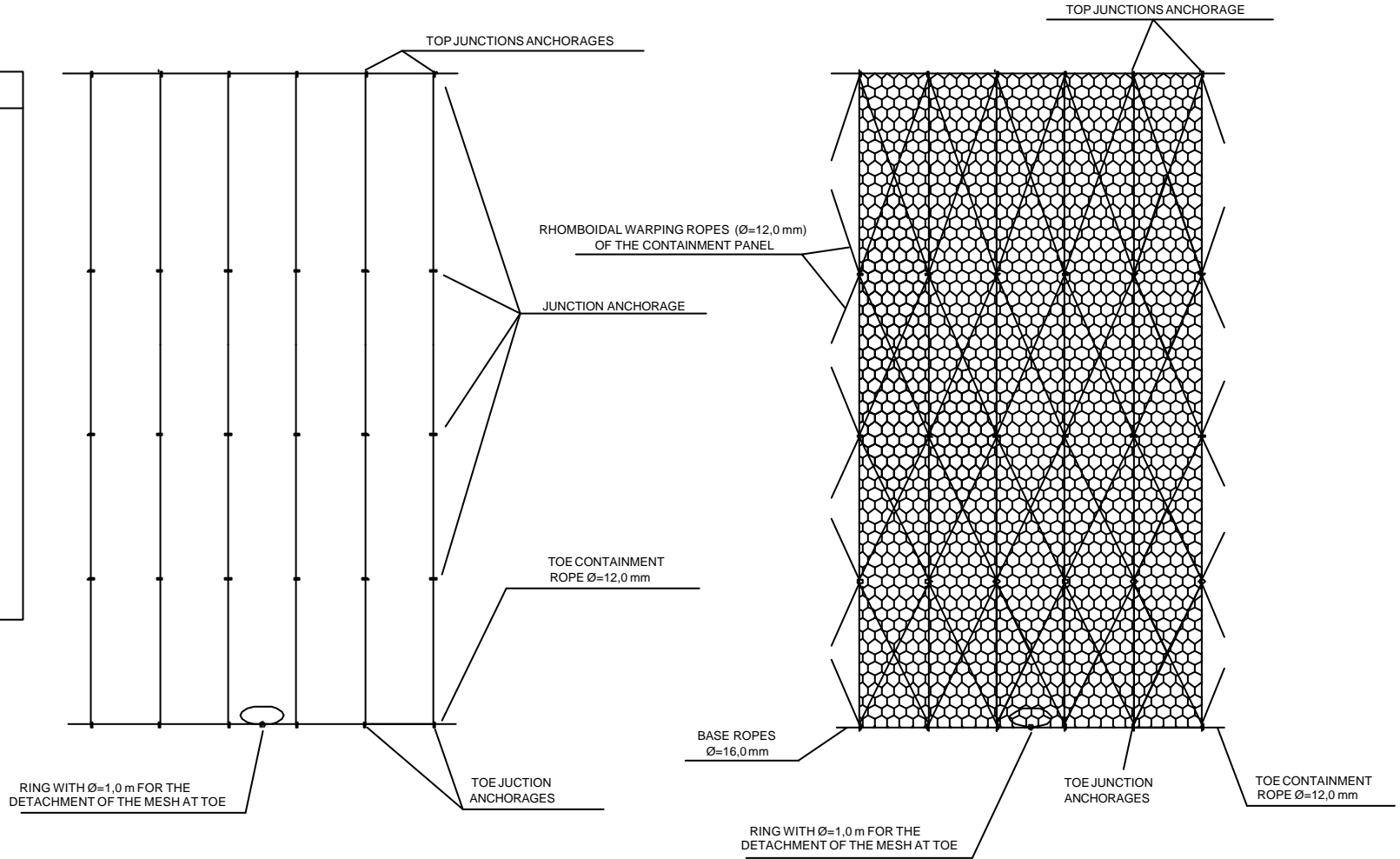
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		Sheet 04		Rev.:	00		

CONTAINMENT CABLES ANCHORAGE LAYOUT


DOUBLE WARP CONTAINMENT CABLE LAYOUT SCHEME

EXECUTIVE PHASES	
PHASE 1	SCALING OF INSTABLE BLOCKS, CLEARANCE OF RUBBLE, AND REALIZATION OF A SURFACE ABOVE THE SUPERIOR SIDE.
PHASE 2	EVENTUAL REALIZATION JUST NEXT THE EDGE OF THE DITCH, TO RECEIVE AND DRAIN THE SLOPES WATER.
PHASE 3	REALIZATION OF THE CONTAINMENT CABLE ANCHORAGE IN METALLIC WIRE Ø16 mm AMZ WITH THIMBLE AND ALUMINIUM SHACKLE.
PHASE 4	DISPOSITION OF THE Ø16 mm ATZ WIRE FOR THE TOP SUSTAIN, AND Ø12 mm ATZ FOR THE TOE'S CONTAINMENT.
PHASE 5	PLACEMENT OF THE MESH PANELS IN ADHERENCE TO THE SLOPE; THE PANELS ARE FOLDED AND BLOCKED ON THE WIRE.
PHASE 6	EXECUTION OF THE HOLES TO PLACE THE STEEL WIRE ANCHORAGES Ø16 mm AMZ AND THE EVENTUAL RIVETS. PLACE ON WORK AND FIXING OF STEEL BARS, SCREW BOLTS AND PORTIONING PLATES.
PHASE 7	CREATION OF THE CONTAINMENT PANEL, MADE A VERTICAL WARPING ROPE AND A RHOMBOID ONE, WITH METALLIC WIRE Ø12 mm ATZ.



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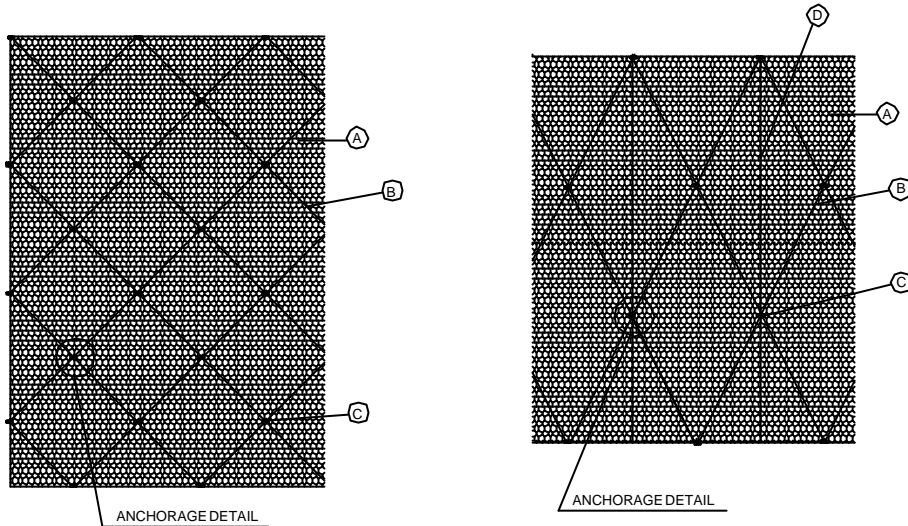
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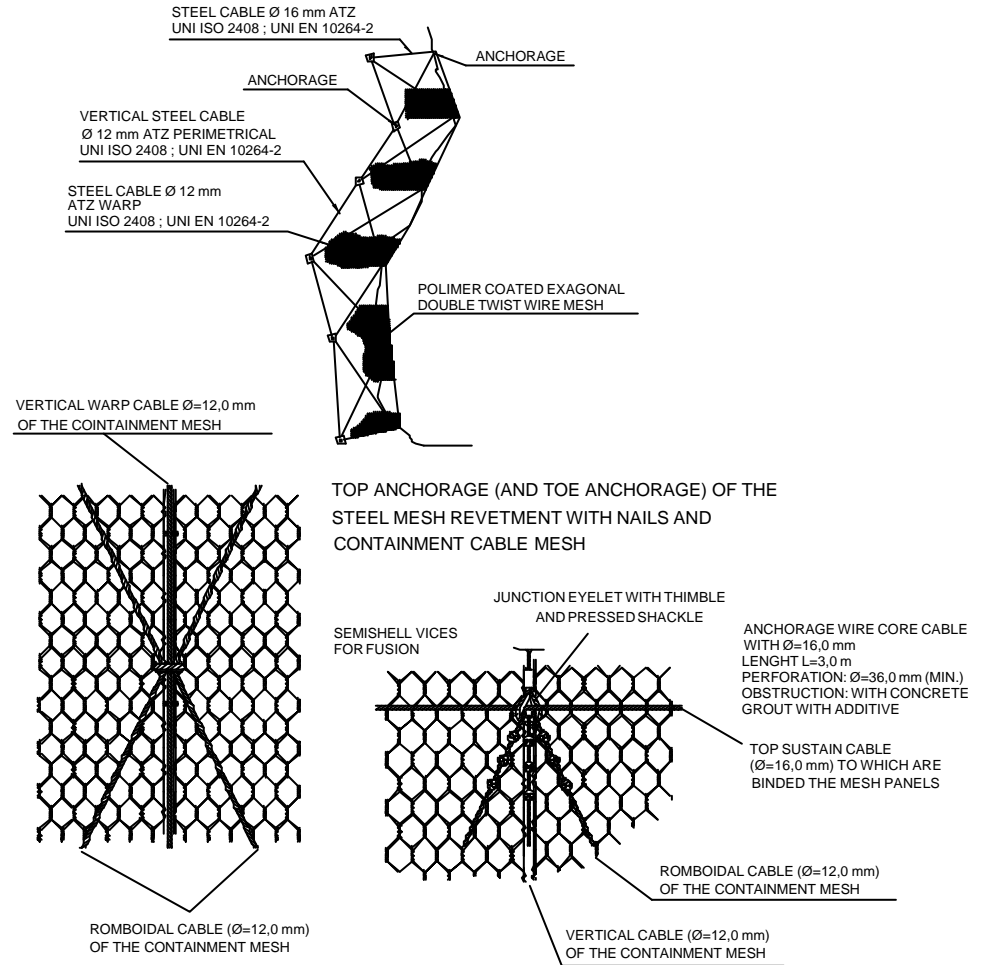
ELEVATION OF THE REVETMENT OF THE STEEL MESH, REINFORCED
WITH NAILS AND COINTANMENT CABLE MESH

DRAPERY SYSTEM THROUGH A REVETMENT WITH DT WIRE MESH ANCHORED
AND A STEEL CABLE CONTAINMENT RETICLE



- A** DOUBLE TWISTED WIRE MESH
TYPE 8x10 AND Ø 2.7/3.7 mm
WITH ALLOY AND PLASTIC COATING (Zn-Al 5%-MM)
UNI EN 10223-3 ; UNI EN 10218 ; EN 10244 - CLASSE A
OR IN ALTERNATIVE
DOUBLE TWISTED WIRE MESH TYPE 8x10 AND Ø 3.00 mm
WITH ALLOY AND PLASTING COATING (Zn-Al 5%-MM)
UNI EN 10223-3 ; UNI EN 10218 ; EN 10244 - CLASSE A
- B** DIAGONAL STEEL CABLE Ø 12 mm ATZ
UNI ISO 2408 ; UNI EN 10264-2
- C** METALLIC MESH ANCHORAGES
PLACED 1 EACH 9 m WITH A LENGHT
ABLE TO BE INSERT IN THE DOWN INHERT
- D** OPTION VERTICAL STEEL ROPES
- E** TOP STEEL ROPE Ø 16 mm ATZ
UNI ISO 2408 ; UNI ISO 10264-2
- F** TOE STEEL ROPE Ø 12 mm ATZ
UNI ISO 2408 ; UNI EN 10264-2

SCHEMATIC SECTION OF THE STEEL MESH REVETMENT WITH NAILS AND
CONTAINMENT CABLE MESH



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MAC.RO. SYSTEM - TYPOLOGY OF STEEL GEOCOMPOSITE "STEELGRID"

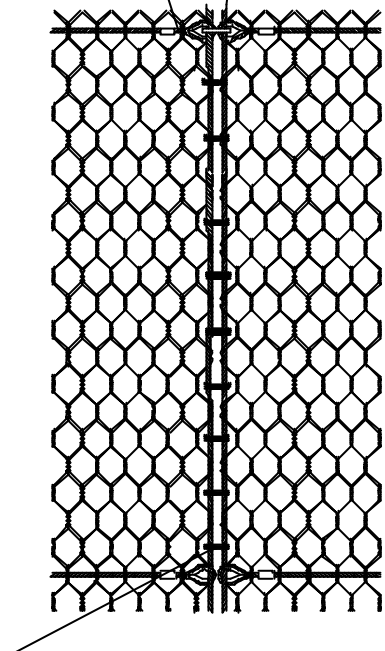
(*) - ROLL DIMENSIONS 25-50 x 3 m



HIGH RESISTANCE RING HOT COATED WITH ZINC

STEEL CABLE AMZ OF $\varnothing=8$ mm DIAMETER WEAIVED WITHIN THE DOUBLE TWIST THAT ARE CLOSED AT THE EXTREMITY WITH EYELET SHAPED SLEEVES

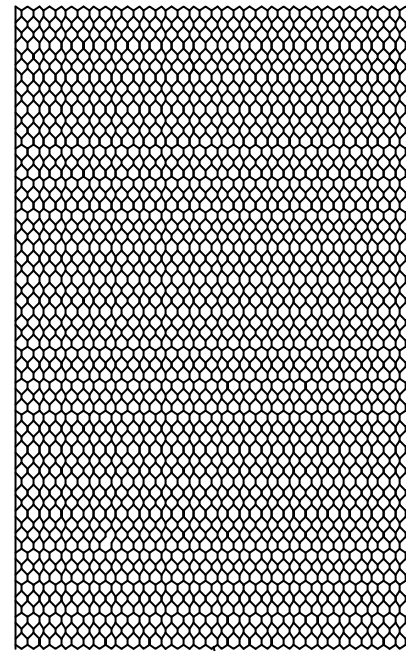
STEEL CABLE AMZ $\varnothing=8$ mm DIAMETER WEAIVED WITH THE STEEL WIRE MESH



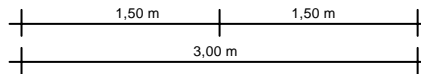
STEEL RINGS FOR PANELL CONNECTION WITH $\varnothing=6,0$ mm DIAMETER OR ALTERNATIVELY WITH STEEL WIRE $\varnothing=2,20$ mm DIAMETER HAVING THE SAME CHARACTERISTIC OF THE MESH WIRE

STEEL GEOCOMPOSITE TYPE "STEELGRID MO"

STEEL MESH TYPE STELLGRID MO 8X10 WITH 3.00 mm DIAMETER'S WIRE (UNI EN 10223-3 ; UNI EN 10218) GALFAN COATED (ZN-AL (5 %) - MM) (EN 10244 - CLASSE A) LONGITUDINALLY WEAIVED WITH STEEL CABLE HAVING A WIRE CORE AMZ (UNI ISO 2408 ; UNI EN 10264-2 ; DIN 3060) TYPE 6X7+IWR OF 8 mm DIAMETER (*)

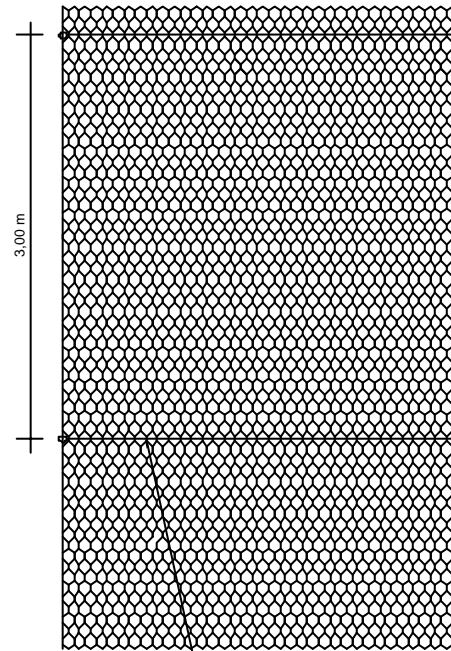


STEEL CABLE AMZ OF 8 mm DIAMETER CENTRALLY WEAIVED WITH THE STEEL WIRE MASH

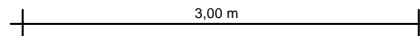


STEEL GEOCOMPOSITE TYPE "STEELGRID BO 300"

STEEL MESH TYPE STELLGRID BO 300 8X10 WITH 3.00 mm DIAMETER'S WIRE (UNI EN 10223-3 ; UNI EN 10218) GALFAN COATED (ZN-AL (5 %) - MM) (EN 10244 - CLASSE A) LONGITUDINALLY AND TRASVERSALLY WEAIVED WITH STEEL CABLE HAVING A WIRE CORE AMZ (UNI ISO 2408 ; UNI EN 10264-2 ; DIN 3060) TYPE 6X7+IWR OF 8 mm DIAMETER AND CENTER LINE DISTANCE OF 300 cm (*)

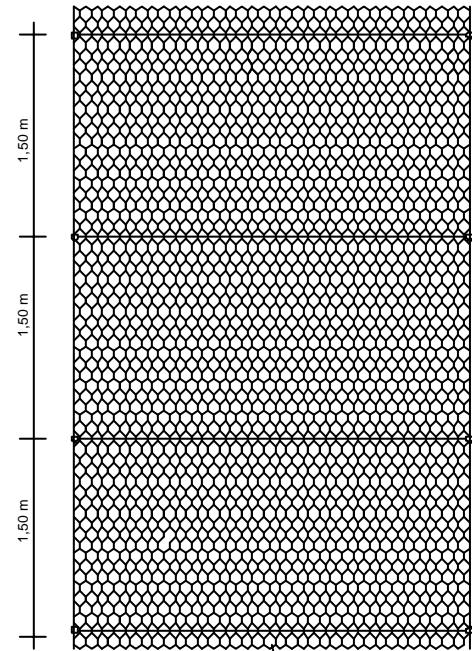


STEEL CABLE AMZ OF $\varnothing=8$ mm DIAMETER WEAIVED WITH THE DOUBLE TWIST THAT ARE CLOSED AT THE EXTREMITY WITH EYELET SHAPED SLEEVES

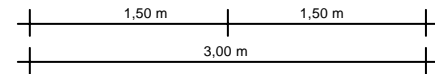


STEEL GEOCOMPOSITE TYPE "STEELGRID BO 150"

STEEL MESH TYPE STELLGRID BO 150 8X10 WITH 3.00 mm DIAMETER'S WIRE (UNI EN 10223-3 ; UNI EN 10218) GALFAN COATED (ZN-AL (5 %) - MM) (EN 10244 - CLASSE A) LONGITUDINALLY AND TRASVERSALLY WEAIVED WITH STEEL CABLE HAVING A WIRE CORE AMZ (UNI ISO 2408 ; UNI EN 10264-2 ; DIN 3060) TYPE 6X7+IWR OF 8 mm DIAMETER AND CENTER LINE DISTANCE OF 150 cm (*)



STEEL CABLE AMZ OF 8 mm DIAMETER CENTRALLY WEAIVED WITH THE STEEL WIRE MASH



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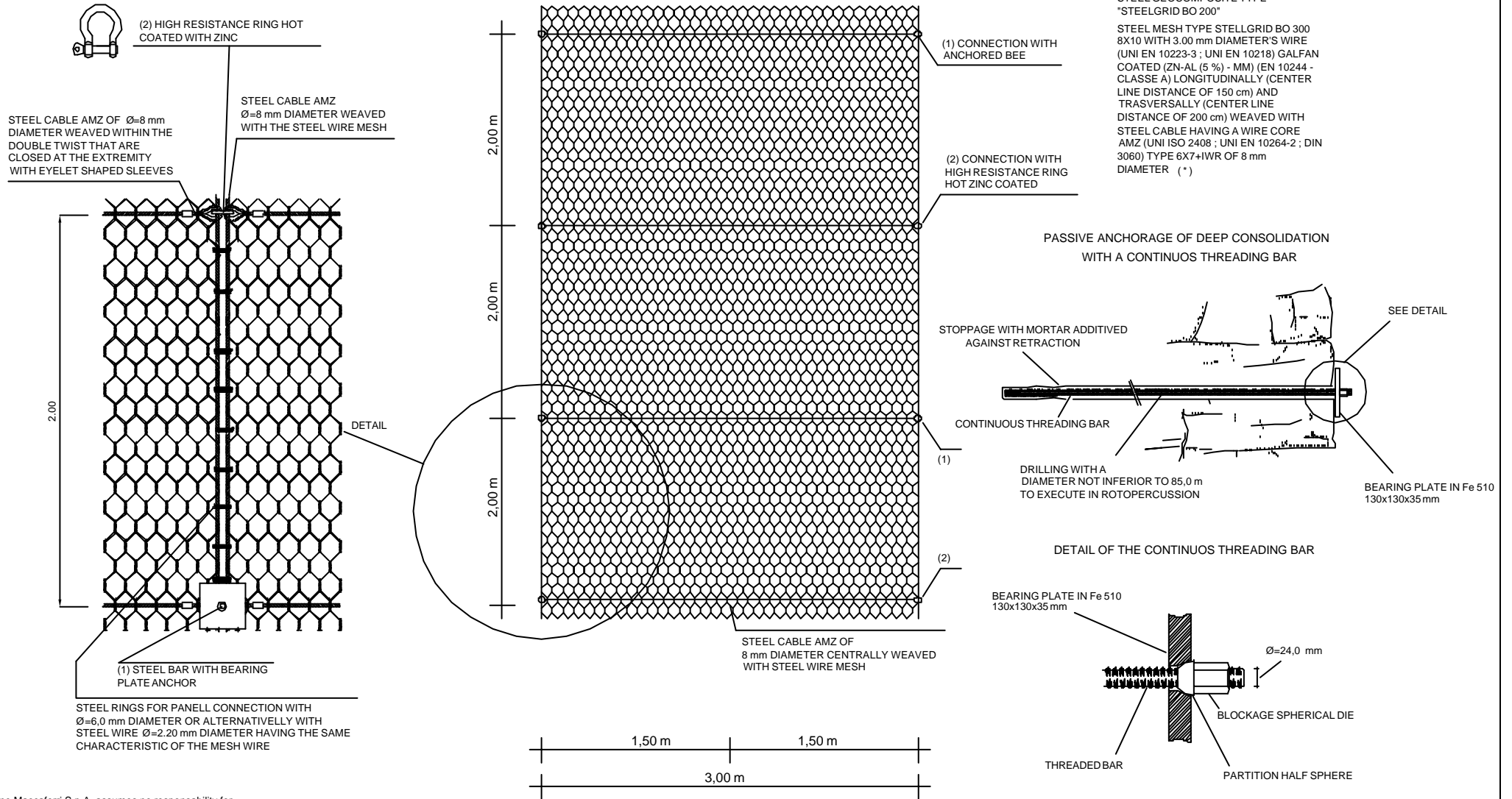
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Rev: Issue / Revision: Drawn: App: Date:

MAC.RO. SYSTEM - TYPOLOGY OF STEEL GEOCOMPOSITE "STEELGRID"

(*) - ROLL DIMENSIONS 25-50 x 3 m



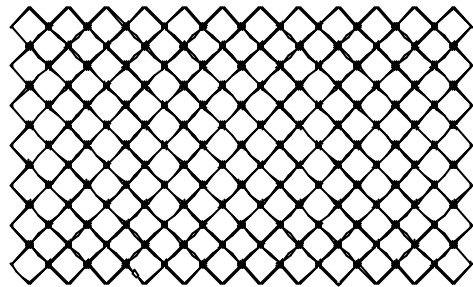
Officine Maccaferri S.p.A. assumes no responsibility for drawings and calculations provided, as they must be intended as a general indication to suggest the proper use of its products.

				Drawing Title: MAC.RO. SYSTEM SIMPLE NETTING AND DRAPERY SYSTEMS		Designed:		Date:		TYPICAL DRAWING			
				Scale:		Project No:		Drawn: R. Leprotti				Date: 15/06/05	
				Drawing No: Sheet 09		Rev: 00		Approved: F. Ferraiolo		Date: 15/06/05		NOT FOR CONSTRUCTION	
Rev:				Issue / Revision:		Drawn:		App:		Date:			

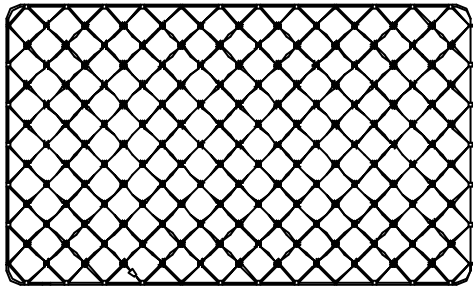


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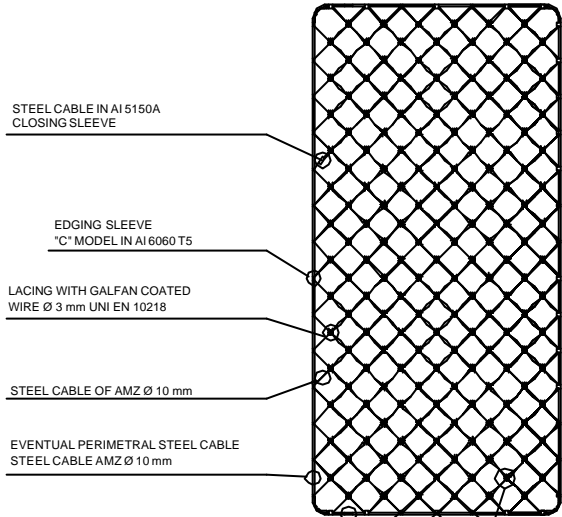
MAC.RO, SYSTEM - DRAPERY SYSTEMS WITH DOUBLE TWIST STEEL WIRE MESH FACING COATING
ANCHORAGES AND HEA STEEL CABLE PANELS



STEEL CABLE ROCKFALL PROTECTION Ø 10 mm
AMZ CABLE AND RHOMBOIDAL MESH
OF NOMINAL OPENING 400X400 mm - 300X300 mm



STEEL CABLE ROCKFALL PROTECTION Ø 10 mm
AMZ CABLE AND RHOMBOIDAL MESH
OF NOMINAL OPENING 400X400 mm - 300X300 mm
AND WITH A PERIMETRAL CABLE OF Ø 10 mm AMZ



STEEL CABLE IN AI 5150A
CLOSING SLEEVE

EDGING SLEEVE
"C" MODEL IN AI 6060 T5

LACING WITH GALFAN COATED
WIRE Ø 3 mm UNI EN 10218

STEEL CABLE OF AMZ Ø 10 mm

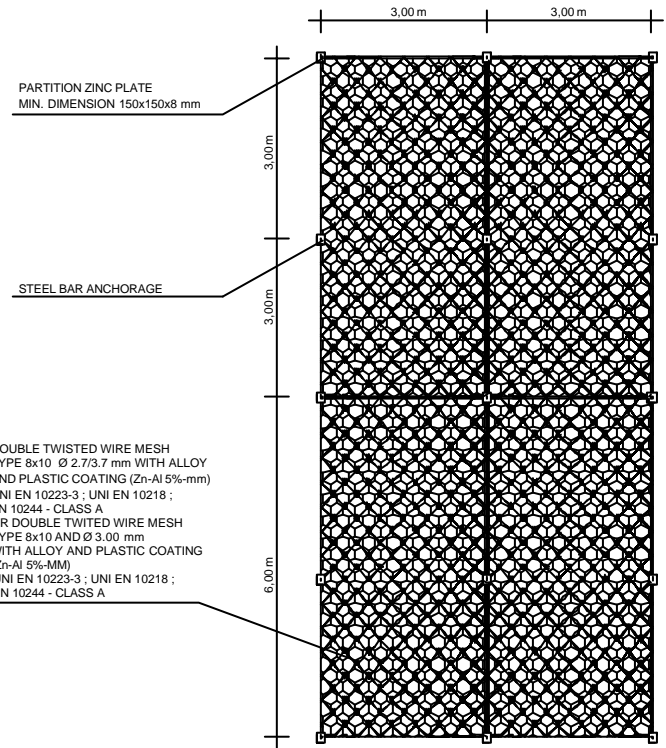
EVENTUAL PERIMETRAL STEEL CABLE
STEEL CABLE AMZ Ø 10 mm

CLOSING SLEEVE
PERIMETRAL STEEL CABLE
IN AI 5150A DIN 3093

STEEL CABLE AMZ OF Ø=10 mm DIAMETER WITH
THE NOMINAL RESISTANCE OF SINGOL WIRE NOT
LOWER THAN 1770 N/MQ (UNI ISO 2408 ; UNI ISO
10264-2)

STEEL WIRE Ø 3.00 mm
GALFAN COATED Zn-Al (5 %) (EN 10218 ; EN 10244 - CLASS A)

KNOT DETAIL AT CABLES CROSSING
HEA STEEL CABLE PANELS



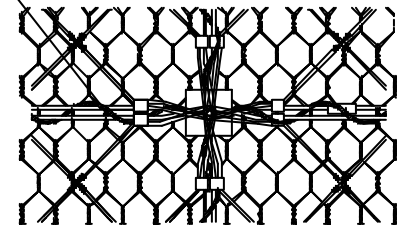
PARTITION ZINC PLATE
MIN. DIMENSION 150x150x8 mm

STEEL BAR ANCHORAGE

DOUBLE TWISTED WIRE MESH
TYPE 8x10 Ø 2.7/3.7 mm WITH ALLOY
AND PLASTIC COATING (Zn-Al 5%-mm)
UNI EN 10223-3 ; UNI EN 10218 ;
EN 10244 - CLASS A
OR DOUBLE TWISTED WIRE MESH
TYPE 8x10 AND Ø 3.00 mm
WITH ALLOY AND PLASTIC COATING
(Zn-Al 5%-MM)
UNI EN 10223-3 ; UNI EN 10218 ;
EN 10244 - CLASS A

LACING STEEL CABLE

DETAIL



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				Drawing Title: MAC.RO. SYSTEM SIMPLE NETTING AND DRAPERY SYSTEMS		Designed:		Date:		TYPICAL DRAWING		MACCAFERRI			
				Scale:		Project No:		Drawn: R. Leprotti						Date: 15/06/05	
				Drawing No: Sheet 10		Rev: 00		Approved: F. Ferraiolo		Date: 15/06/05		NOT FOR CONSTRUCTION		OFFICINE MACCAFERRI S.p.A. Via Agresti, 6 - 40123 Bologna - Italia Tel. ++39 051 6436000 - Fax ++39 051 236507 e-mail: comes.officine@maccaferri.com - Website: www.maccaferri.com	
Rev:		Issue / Revision:		Drawn:		App:		Date:							