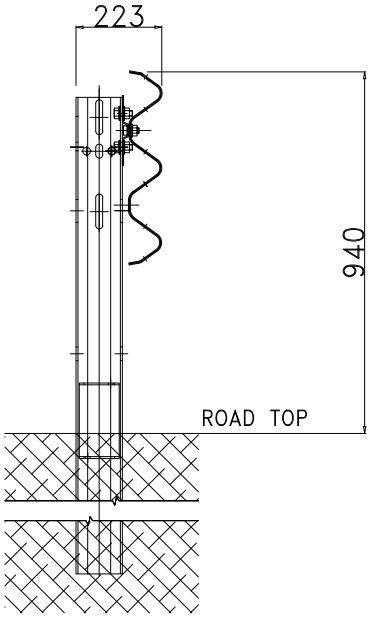
» H2 hard shoulder
H2BL1400

components

- 3W beam 5333 mm th. 2,5 mm
- "C" Section Post 30x80x120 mm th. 5,0 mm
  H = 1750 mm c/c 1333,3 mm;
- Connection Element (Beam/Post)
- Stiffner for "C" Post;
- Unthreading proof little plate
- Bolts and nuts
- Reflectors (1 every 16 lm)

section



- **Dwg. n.: H2BL1400**
  c/c distance between posts: **1.333 mm**

performance

TB11 – Car 900 kg

Test:	IME 1369
ASI:	A - 1,00

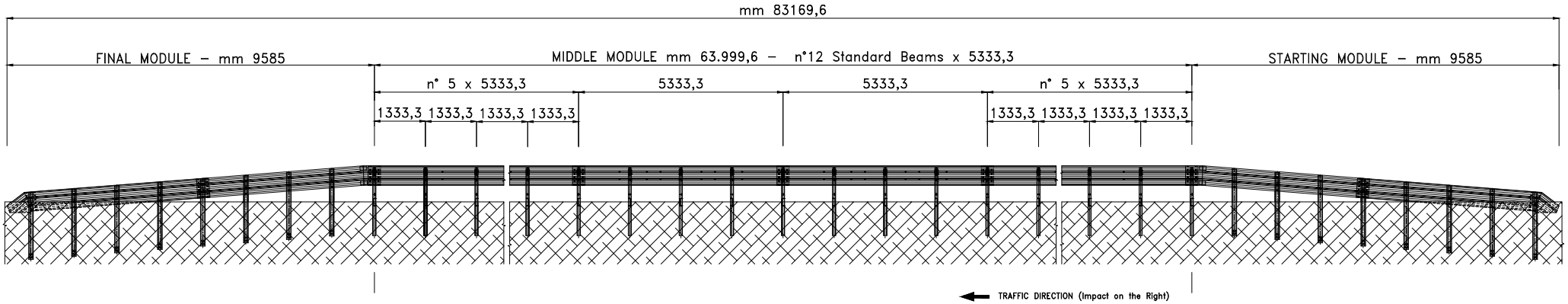
TB32 – Car 1500 kg

Test:	IME 1367
ASI:	A - 0,80

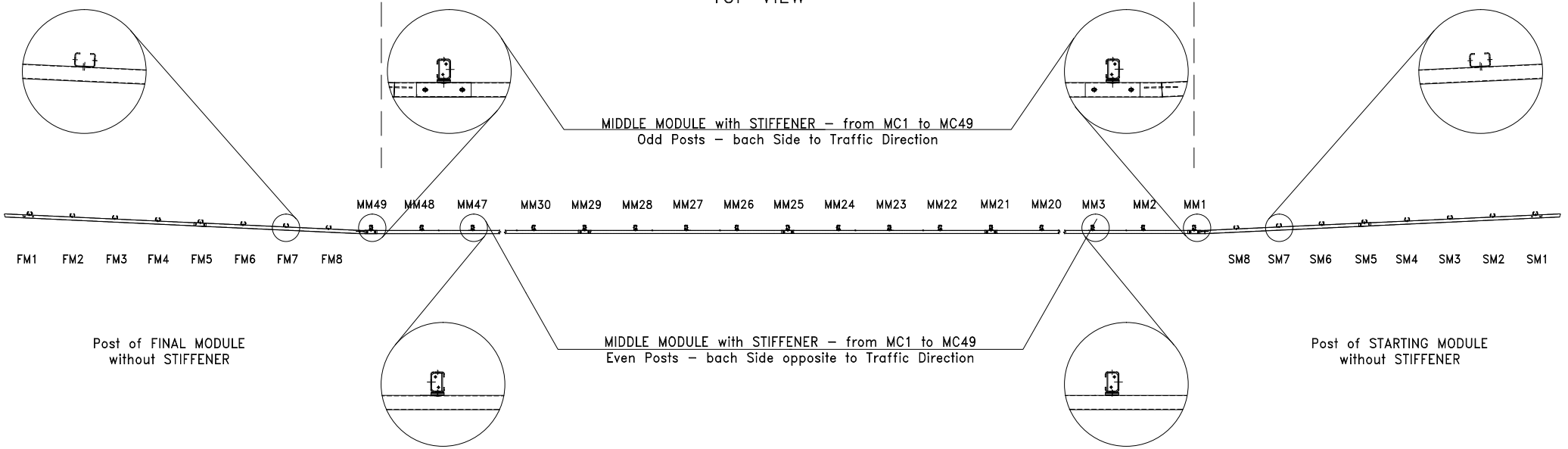
TB51 - Bus 13.000 kg

Test:	IME 1366
W_N:	m 0,8 (W2)
D_N:	m 0,7
VI_N:	m 0,9 (VI3)

FRONT VIEW



TOP VIEW



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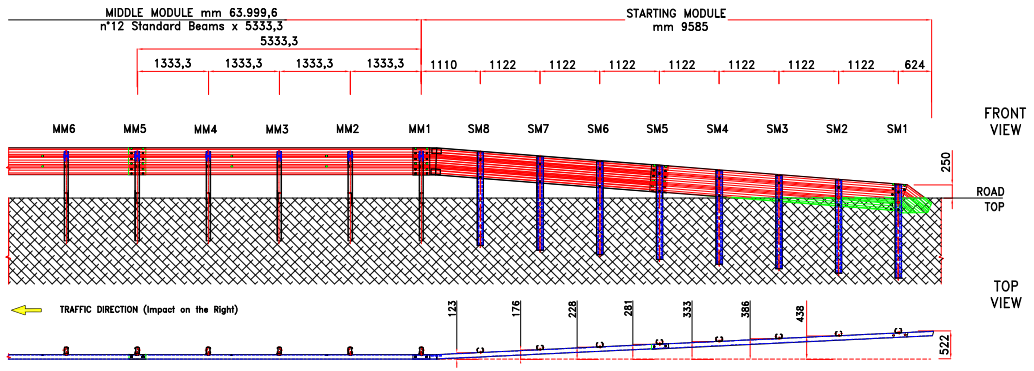
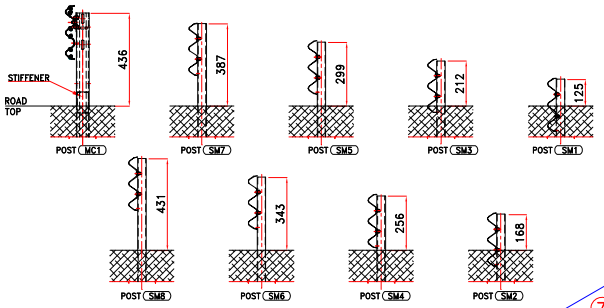
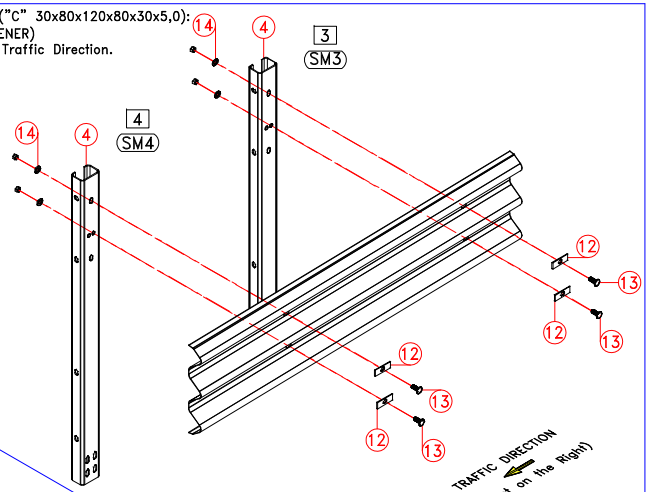
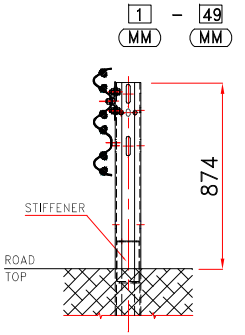




– Posts from SM1 to SM8 ("C" 30x80x120x80x30x5,0): positioning (without STIFFENER) backside opposite to the Traffic Direction.



Detail 7: Stiffener to be put on the base of post inner side – placed under the level of road surface: from 1/3 up to the half of its height: from post MM1 (first post of Middle Module) to post MM49.



– Posts from 1 to 49: alternatively (with STIFFENER) with back side towards traffic directions (Odd Posts) and back side opposite to traffic direction (Even Posts)

CONNECTION	DESCRIPTION	COUPLE OF TIGHTENING Nm
STARTING and FINAL MODULE		
– Beam/Diagonal of Horizontal Plane/Space	R.H. Screw M16x48 + Washer + Hexagonal Nut	120–140
– Beam/Diagonal of Vertical Plane/Post	R.H. Screw M16x30 + Washer + Hexagonal Nut	120–140
– Beam/Beam	R.H. cave Hexagonal Screw 16x25 + Washer + Hexagonal Nut	120–140
MIDDLE MODULE		
– Post/Connection Element Post–Beam (Post Inner Nut)	No. 2 H.H. Screws M14x35 Spher. U.head+Washer + Washer + Hexagonal Nut Spherical Underhead	60–100
– Connection Element Post–Beam/Beam (in correspondence of the overlays)	No. 1 H.H. Screws M14x48 Spherical Underhead + Slot Covering Plate + Hexagonal Nut Spherical Underhead	80–100
– Connection Element Post–Beam/Beam (in correspondence of the intermediate slots)	H.H.Screws M14x35 Spherical Underhead + Slot Covering Plate + Hexagonal Nut Spherical Underhead	80–100

14	Washer 18x36x3,0	
13	R.H. Screw M16x48 + Hexagonal Nut + WASHER 18x36x3,0	
12	Slot Covering Plate 100x35 th. 4,0	
11	H.H. Screw M14x35 with spherical underhead + Hexagonal Nut with spherical underhead	
10	Slot Covering Plate 80x35 th. 4,0	
9	H.H. Screw M14x48 with spherical underhead + Hexagonal Nut with spherical underhead	
8	R.H. Cave Hexagonal Screw M16x25 + Hexagonal Nut	
7	"U" Section Stiffener 64x100 L=197 Th. 5,0	
6	Connection Element 182X77 Th. 3,0	
5	"C" Post 30X80X120X80X30 H=1750 Th. 5,0 (PAL10–DXSX)	
4	"C" Post 30X80X120X80X30 H=1750 Th. 5,0 (PAL18–DXSX)	
3	Thriee beams c/c mm 5333,3x2,5	
2	Angled Thriee Beam of Starting Module c/c mm 4500x2,5	
1	Mitred Thriee Beam of Starting Module c/c mm 4500x2,5	

POS.	Decription	SUB. DW.	MATERIAL	P.U.GALVKg	NO. P.	CODE
REV.	INDICATION OF REVIEW	SIGN	DATE	ISSUING	SIGN	DATE
2				DRAWN	V.P. C.M.	15-01-16
1				APPROVED		

MATERIAL	TOP TREAT. GALVANIZED	SCALA Adapted	FORM A3
IMEVA	OBJECT: BARRIER H2 FOR SIDE EMBANKMENT ASSEMBLING SCHEME – STARTING MODULE –	RAW WH Kg.	FILE 3D H2BL1400_MON 1–3
		FINAL WH. Kg.	DWG N. 1/3

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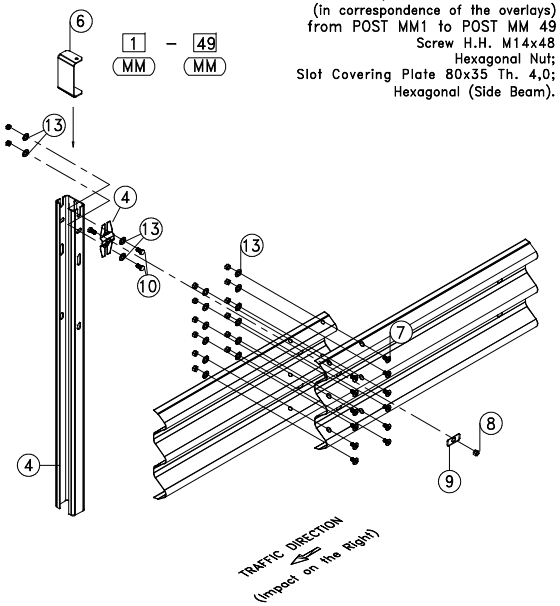
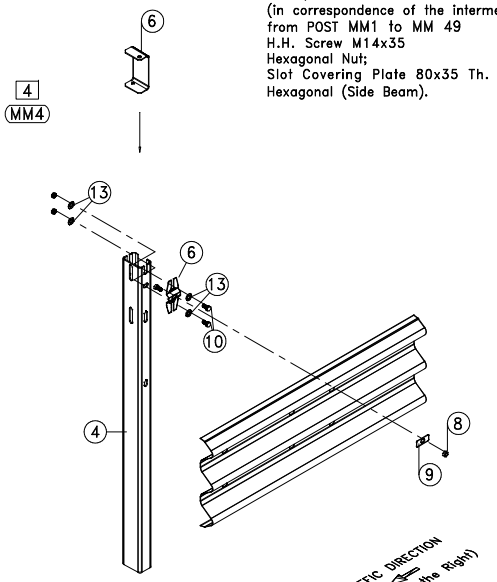
CONNECTING: BEAM/CONNECTION ELEMENT
(in correspondence of the overlays)
from POST MM1 to POST MM 49
Screw H.H. M14x48
Hexagonal Nut;
Slot Covering Plate 80x35 Th. 4,0;
Hexagonal (Side Beam).

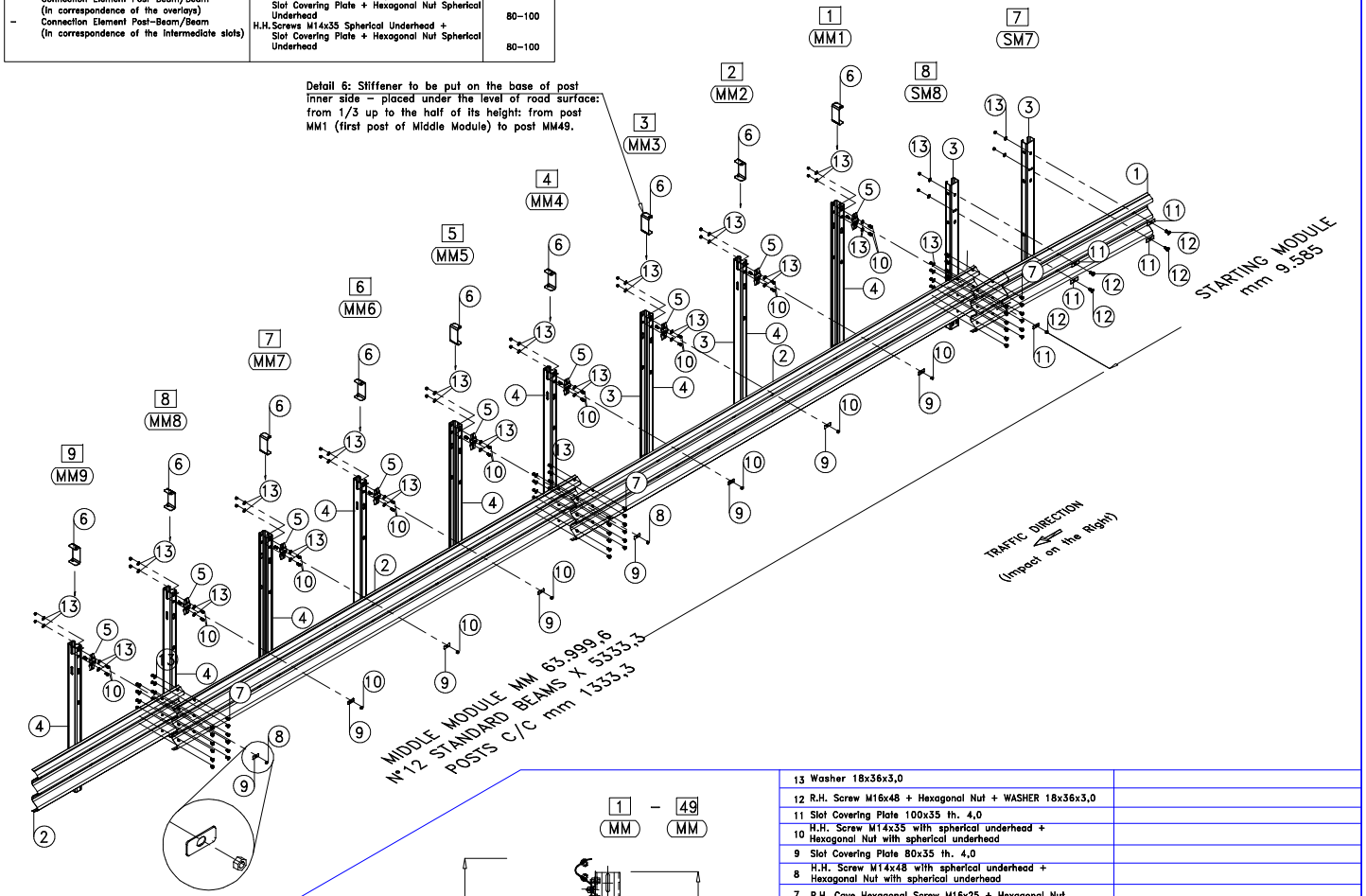


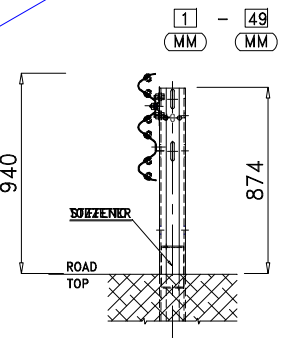
BEAM/CONNECTION ELEMENT
(in correspondence of the intermediate slots)
from POST MM1 to MM 49
H.H. Screw M14x35
Hexagonal Nut;
Slot Covering Plate 80x35 Th. 4,0;
Hexagonal (Side Beam).



CONNECTION	DESCRIPTION	COUPLE OF TIGHTENING Nm
STARTING and FINAL MODULE		
– Beam/Diagonal of Horizontal Plane/Space	R.H. Screw M16x48 + Washer + Hexagonal Nut	120–140
– Beam/Diagonal of Vertical Plane/Post	R.H. Screw M16x30 + Washer + Hexagonal Nut	120–140
– Beam/Beam	R.H. cove Hexagonal Screw 16x25 + Washer + Hexagonal Nut	120–140
MIDDLE MODULE		
– Post/Connection Element Post–Beam (Post Inner Nut)	No. 2 H.H. Screws M14x35 Spher. U.head+Washer + Washer + Hexagonal Nut Spherical Underhead	80–100
– Connection Element Post–Beam/Beam (in correspondence of the overlays)	No. 1 H.H. Screws M14x48 Spherical Underhead + Slot Covering Plate + Hexagonal Nut Spherical Underhead	80–100
– Connection Element Post–Beam/Beam (in correspondence of the intermediate slots)	H.H.Screws M14x35 Spherical Underhead + Slot Covering Plate + Hexagonal Nut Spherical Underhead	80–100

Detail 6: Stiffener to be put on the base of post inner side – placed under the level of road surface: from 1/3 up to the half of its height: from post MM1 (first post of Middle Module) to post MM49.





– Posts from 1 to 49: alternatively (with STIFFENER) with back side towards traffic directions (Odd Posts) and back side opposite to traffic direction (Even Posts)

13	Washer 18x36x3,0
12	R.H. Screw M16x48 + Hexagonal Nut + WASHER 18x36x3,0
11	Slot Covering Plate 100x35 th. 4,0
10	H.H. Screw M14x35 with spherical underhead + Hexagonal Nut with spherical underhead
9	Slot Covering Plate 80x35 th. 4,0
8	H.H. Screw M14x48 with spherical underhead + Hexagonal Nut with spherical underhead
7	R.H. Cave Hexagonal Screw M16x25 + Hexagonal Nut
6	"U" Section Stiffener 64x100 L=197 Th. 5,0
5	Connection Element 182X77 Th. 3,0
4	"C" Post 30X80X120X80X30 H=1750 Th. 5,0 (PAL10–DXSX)
3	"C" Post 30X80X120X80X30 H=1750 Th. 5,0 (PAL18–DXSX)
2	Thriee beams c/c mm 5333,3x2,5
1	Angled Thriee Beam of Starting Module c/c mm 4500x2,5

POS.	Decription	SUB. DW.	MATERIAL	P.U.GALVKg	NO. P.	CODE
REV.	INDICATION OF REVIEW	SIGN	DATE	ISSUING	SIGN	DATE
2				DRAWN	C.M.	20-08-15
1				APPROVED	V.	

MATERIAL

TOP TREAT. GALVANIZED

SCALA Adapted FORM A3

RAW WH Kg.

FINAL WH. Kg.

OBJECT: BARRIER H2 FOR SIDE EMBANKMENT
ASSEMBLING SCHEME
– MIDDLE MODULE –

FILE 3D H2BL1400_MON 2-3

DWG N. 2/3

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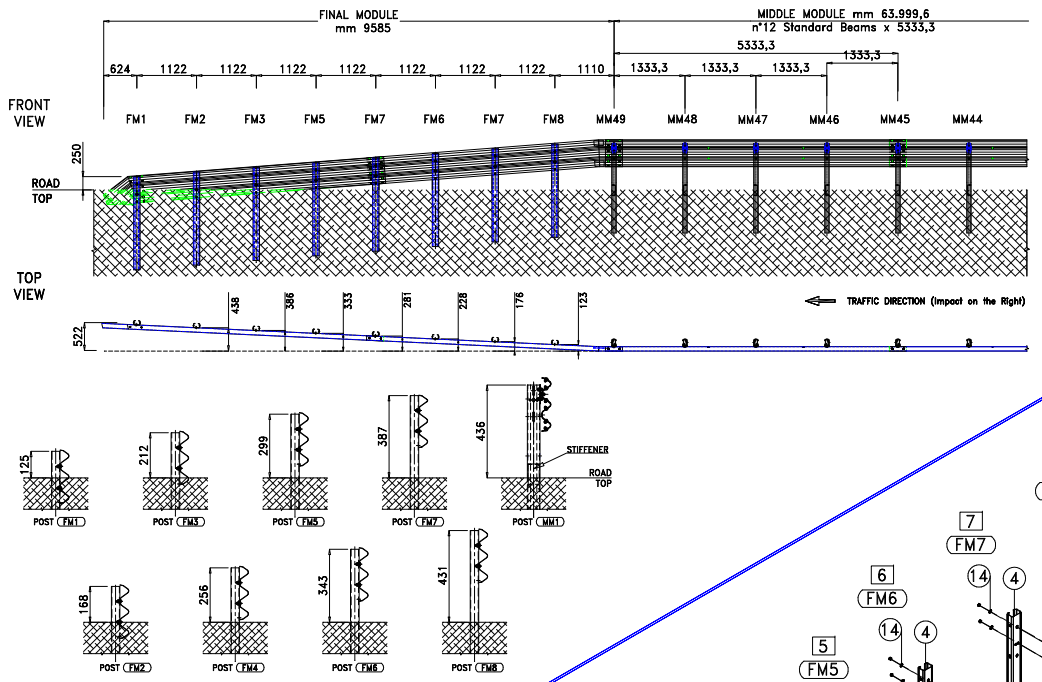

CONNECTION	DESCRIPTION	COUPLE OF TIGHTENING Nm
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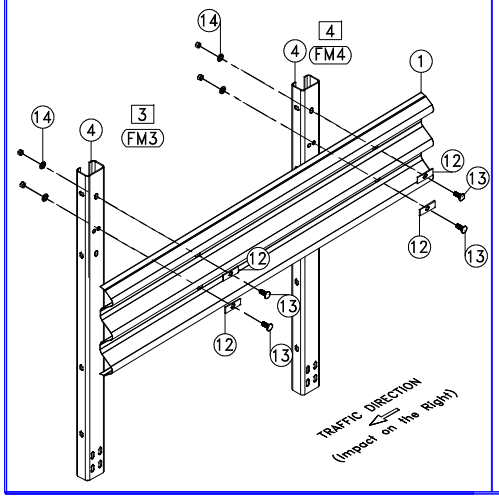
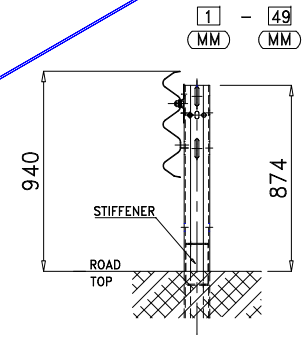
– Connection Element Post–Beam/Beam (In correspondence of the intermediate slots)	H.H.Screws M14x35 Spherical Underhead + Slot Covering Plate + Hexagonal Nut Spherical Underhead	80–100

– Posts from SM1 to SM8 ("C" 30x80x120x80x30x5,0): positioning (without STIFFENER) backside opposite to the Traffic Direction.





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3	Thriee beams c/c mm 5333,3x2,5
2	Angled Thriee Beam of Final Module c/c mm 4500x2,5
1	Mitred Thriee Beam of Final Module c/c mm 4500x2,5

REV.	INDICATION OF REVIEW	SUB. DW. SIGN	MATERIAL DATE	P.U.GALVKg ISSUING	NO. P. SIGN	CODE DATE
2				DRAWN	V.P. C.M.	15–01–16
1				APPROVED		

MATERIAL

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TOP TREAT. GALVANIZED

SCALA Adapted FORM A3

IMEVA

OBJECT: BARRIER H2 FOR SIDE EMBANKMENT ASSEMBLING SCHEME – FINAL MODULE –

RAW WH Kg.

FINAL WH. Kg.

FILE 3D H2BL1400_MON 3–3

DWG N. 3/3