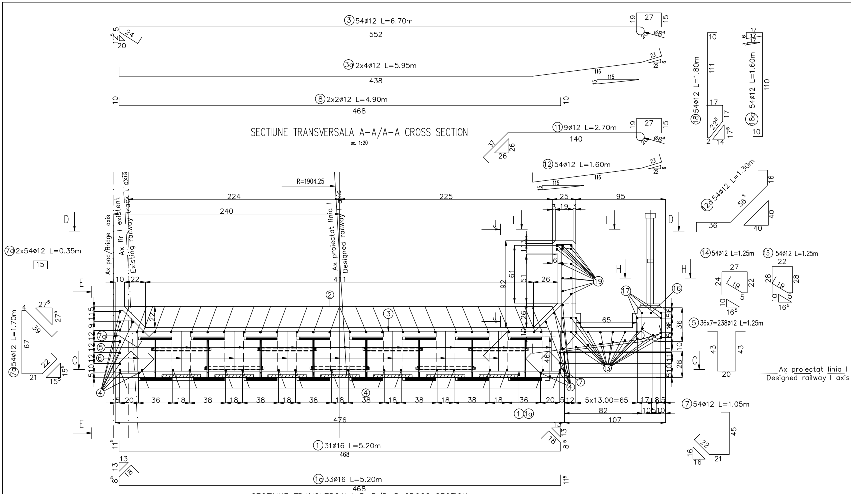
SECTIUNE TRANSVERSALA A-A/A-A CROSS SECTION

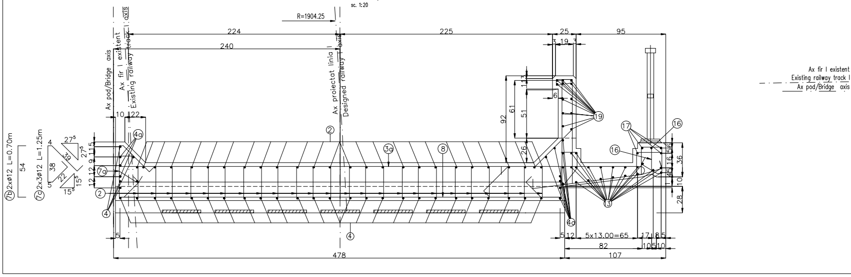
sc. 1:20



③54ø12 L=6.70m
552
③a 2x4ø12 L=5.95m
438
⑧2x2ø12 L=4.90m
468
⑪9ø12 L=2.70m
140
⑫54ø12 L=1.60m
116
115
⑫a 54ø12 L=1.30m
⑱54ø12 L=1.80m
⑱a 54ø12 L=1.60m
⑭54ø12 L=1.25m
⑮ 54ø12 L=1.25m
⑤ 36x7=238ø12 L=1.25m
⑦54ø12 L=1.05m
⑦a 2x54ø12 L=0.35m
⑦a 54ø12 L=1.70m
R=1904.25
224
225
240
25
19
95
476
82
107
5x13.00=65
Ax pod/Bridge axis
Ax fir I existent
Existing railway track I axis
Ax proiectat linia I
Designed railway I axis
①31ø16 L=5.20m
468
①a 33ø16 L=5.20m
468
D
E
C
H
I
J

SECTIUNE TRANSVERSALA B-B/B-B CROSS SECTION

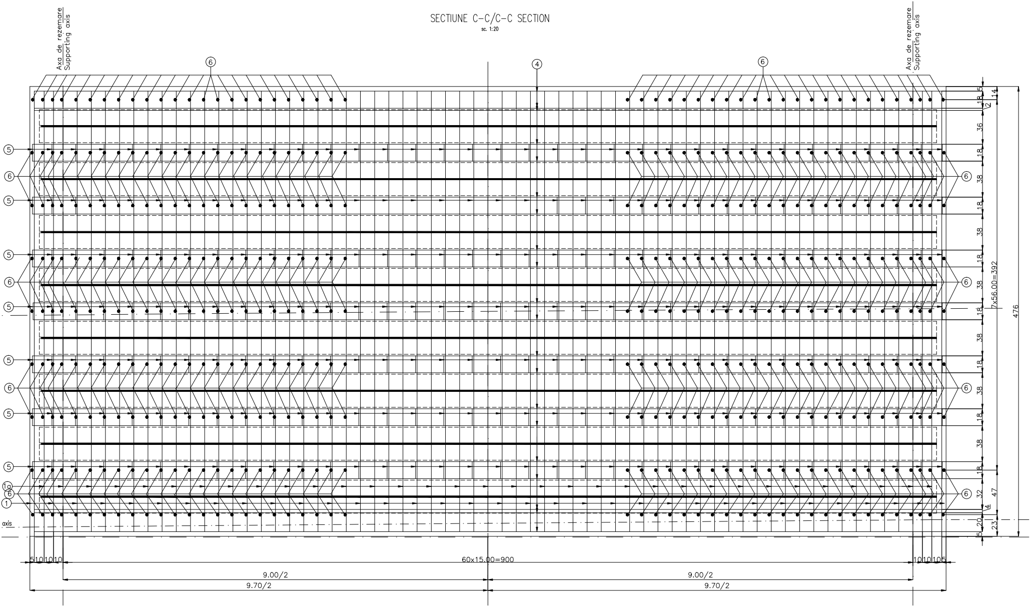
sc. 1:20



R=1904.25
224
225
240
25
95
⑦b 2x2ø12 L=0.70m
⑦a 2x3ø12 L=1.25m
Ax pod/Bridge axis
Ax fir I existent
Existing railway track I
Ax proiectat linia I
Designed railway I axis
478
82
107
5x13.00=65

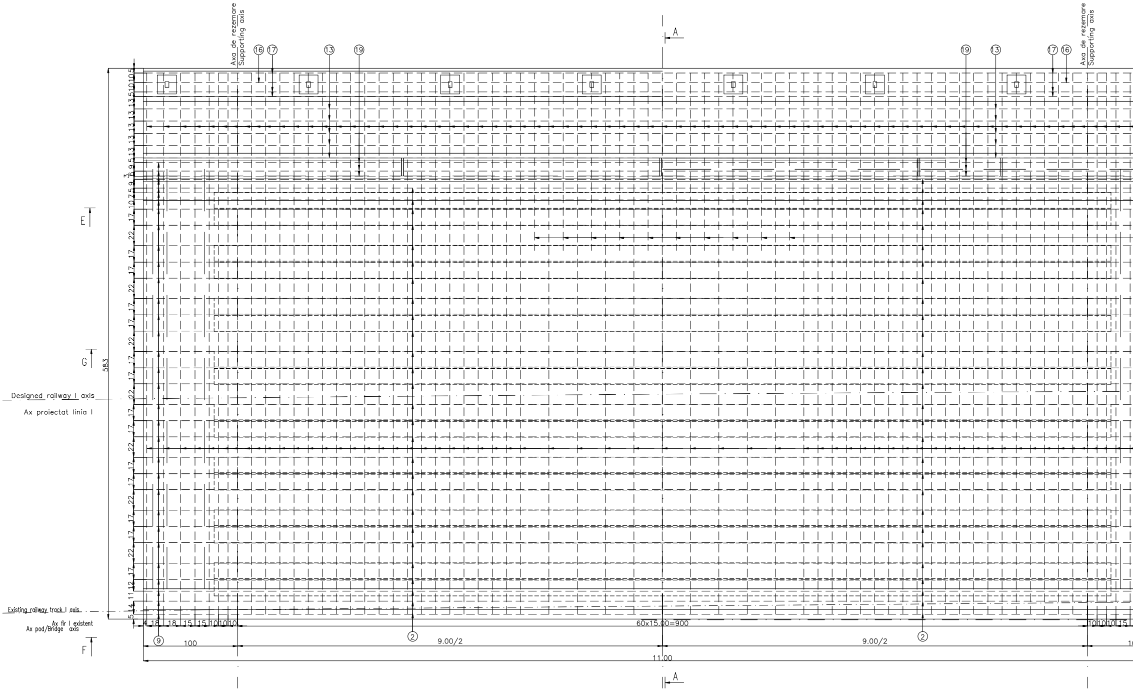
SECTIUNE C–C/C–C SECTION

sc. 1:20

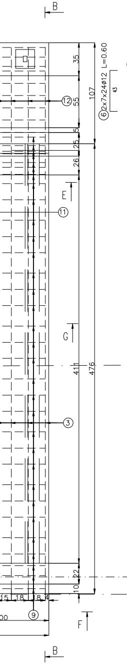

Axa de rezemare
Supporting axis
⑥
④
⑥
Axa de rezemare
Supporting axis
⑤
⑥
⑤
⑤
⑥
⑤
⑤
⑥
⑤
⑤
1a
⑥
①
axis
⑥
⑥
⑥
⑥
5
18
2
14
36
18
38
18
38
18
38
18
7x56.00=392
476
38
18
38
18
38
18
32
47
4
20
23
5
5 10 10 10
60x15.00=900
10 10 10 5
9.00/2
9.00/2
9.70/2
9.70/2

VEDERE D-D/D-D VIEW

sc. 1:20

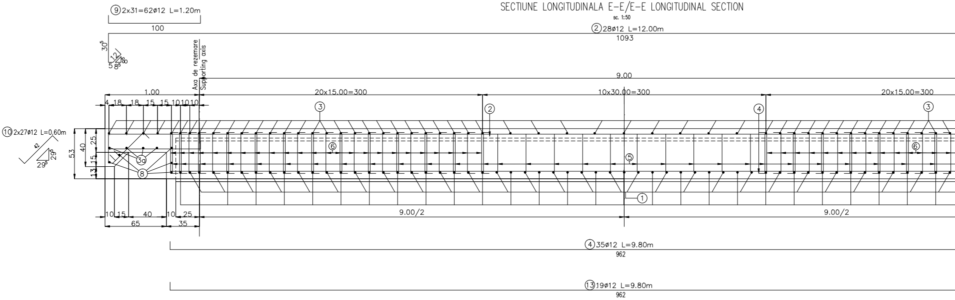


Axa de rezemare
Supporting axis
A
⑯
⑰
⑬
⑲
⑲
⑬
⑰
⑯
Axa de rezemare
Supporting axis
E
G
583
Designed railway I axis
Ax proiectat linia I
Existing railway track I axis
Ax fir I existent
Ax pod/Bridge axis
F
5
10
10
13.5
13
13
13
13
9.5
9
6
3
9
7.5
10
17
22
17
17
22
17
17
22
17
17
22
17
17
22
17
12
11
14
5
4
18
18
15
15
10
10
10
60x15.00=900
10
10
10
15
⑨
100
②
9.00/2
9.00/2
②
11.00
A


B
35
55
107
5
25
26
E
G
411
476
22
10
15
18
8
4
00
F
B
⑫
⑪
③
⑨
⑥2x7x24ø12 L=0.60
43

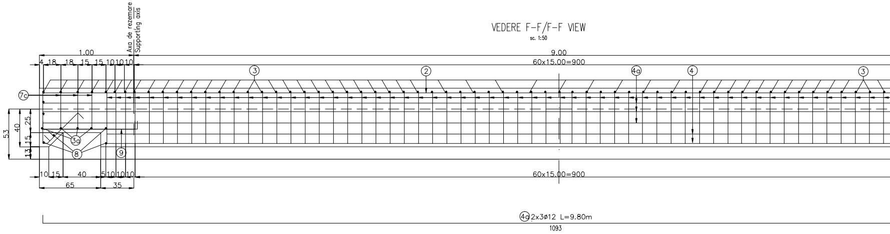
SECTIUNE LONGITUDINALA E-E/E-E LONGITUDINAL SECTION

sc. 1:50


⑨2x31=62ø12 L=1.20m
100
30
12
5 8
⑩2x27ø12 L=0.60m
42
29
29
②28ø12 L=12.00m
1093
Axa de rezemare
Supporting axis
9.00
1.00
20x15.00=300
10x30.00=300
20x15.00=300
4 18 18 15 15 10 10 10
53
40
25
15
13
③
②
④
③
⑥
⑤
⑥
3a
⑧
①
10 15 40 10 25
65
35
9.00/2
9.00/2
④35ø12 L=9.80m
962
⑬19ø12 L=9.80m
962

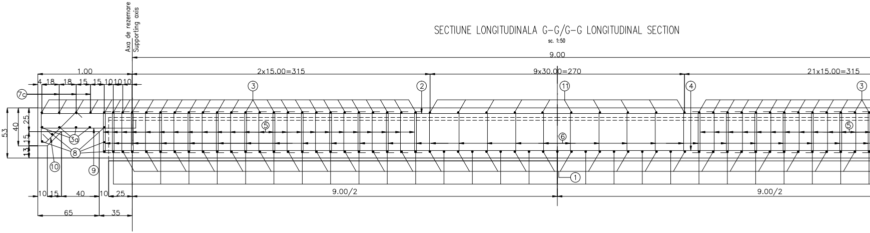
VEDERE F-F/F-F VIEW

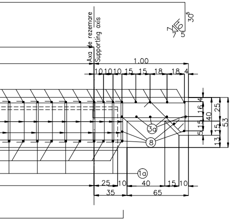
sc. 1:50


Axa de rezemare
Supporting axis
1.00
9.00
60x15.00=900
4 18 18 15 15 10 10 10
③
②
4a
④
③
7c
53
40
25
15
13
3a
⑧
⑨
10 15 40 5 10 10 10
65
35
60x15.00=900
4a 2x3ø12 L=9.80m
1093

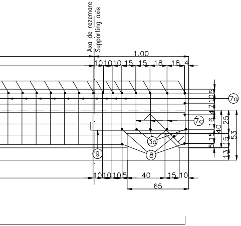
SECTIUNE LONGITUDINALA G-G/G-G LONGITUDINAL SECTION

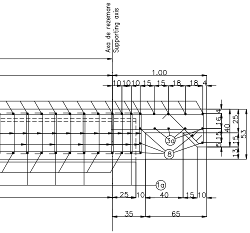
sc. 1:50


Axa de rezemare
Supporting axis
9.00
1.00
2x15.00=315
9x30.00=270
21x15.00=315
4 18 18 15 15 10 10 10
③
②
⑪
④
③
7c
⑤
⑥
⑤
53
40
25
15
13
3a
⑧
⑩
⑨
①
10 15 40 10 25
65
35
9.00/2
9.00/2


Axa de rezemare
Supporting axis
1.00
10 10 10 15 15 18 18 4
16 4
40
25
53
5 15
13 15
3a
8
1a
25 10 40 15 10
35 65
30 5
7 5
7

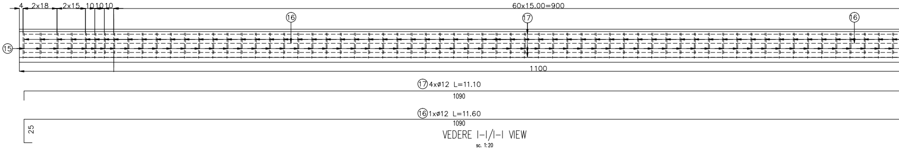
CAMPINA


Axa de rezemare
Supporting axis
1.00
10 10 10 15 15 18 18 4
10 5
7a
16 4 7
7c
40
25
53
5 15
13 15
3a
8
9
10 10 10 5 40 15 10
65


Axa de rezemare
Supporting axis
1.00
10 10 10 15 15 18 18 4
16 4
40
25
53
5 15
13 15
3a
8
1a
25 10 40 15 10
35 65

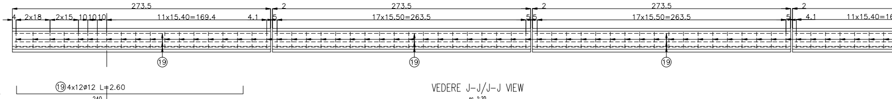
VEDERE H-H/H-H VIEW

sc. 1:20


4 2x18 2x15 10 10 10
60x15.00=900
16
17
16
15
1100
17 4xø12 L=11.10
1090
16 1xø12 L=11.60
1090
25

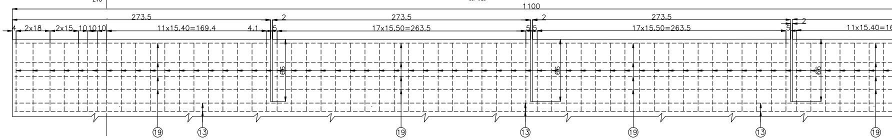
VEDERE I-I/I-I VIEW

sc. 1:20


273.5
4 2x18 2x15 10 10 10 11x15.40=169.4 4.1 5
2
273.5
17x15.50=263.5
5 5
2
273.5
17x15.50=263.5
5
2
4.1 11x15.40=16
19
19
19
19 4x12ø12 L=2.60
240

VEDERE J-J/J-J VIEW

sc. 1:20


1100
273.5
4 2x18 2x15 10 10 10 11x15.40=169.4 4.1 5
2
273.5
17x15.50=263.5
5 5
2
273.5
17x15.50=263.5
5
2
11x15.40=16
66
66
66
19
13
19
13
19
13
19

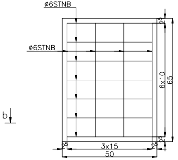
Beton: Concrete:	– C30/37 suprastructura/superstructure
Tipul grinzilor: Beams type:	– grinzi metalice sudate/steel welded girders
Otel pentru grinzi: Steel for the beams:	– OL 37-EP (STAS 12187-88)
Armatura: Reinforcement:	– PC52 (STAS 438/1-89)
Strat de acoperire: Concrete cover	– min. 4cm expunere in aer/min. 4cm air exposed
Clasa de incarcare: Load class:	– convoiul UIC71, P10 (STAS 3220-89)
Cofraj: Formwork:	– Metal sau lemn/Steel or wood

DALE PREFABRICATE DIN BETON ARMATE CU S.T.N.B.
CONCRETE PREFAB SLABS REINFORCED WITH S.T.N.B.

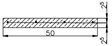
Sc. 1:10

TIP 2/TYPE 2

(32buc. pentru trotuar/32piece for sidewalk)


ø6STNB
ø6STNB
b
b
2.5
6x10
65
2.5
2.5
3x15
50
2.5

SECTIUNE b-b/b-b SECTION



NOTA

1. Prezentul plan a fost intocmit pe baza:
   - Dispozitiei generale EA5101C18L8PV04200021
   - Plan cofraj suprastructura EA5101E18BBPV04230081

2. La executie se vor respecta cu strictete prevederile din "Normativ pentru producerea betonului si executarea lucrarilor din beton, beton armat si beton precomprimat. Partea 1: Producerea betonului", indicativ NE 012/1-2007 si "Normativ pentru producerea betonului si executarea lucrarilor din beton, beton armat si beton precomprimat. Partea 2: Executarea lucrarilor din beton", indicativ NE 012/2-2010, iar verificarea calitatii lucrarilor si receptionarea lor se va face conform normativului C56-1985.

NOTE

1. This Plan was drawn up based on the following data:
   - General Layout EA5101C18L8PV04200021
   - Supersructure shuttering EA5101E18BBV04230081

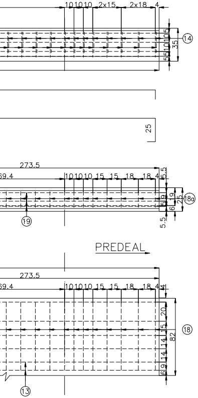
2. The execution will strictly comply with the provisions of "Practice code for the concrete production and works execution, reinforced and pre-stressed concrete - Part 1: Practice code for concrete production" NE 012/1-2007 and "Practice code for the concrete production and works execution, reinforced and pre-stressed concrete - Part 2: The execution of concrete works." NE 012/2-2010, and the quality and the reception of the works shall be made accordingly to Norm C 56-1985.

EXTRAS DE ARMATURA STNB PENTRU UN TABLIER DE CALE
TABLE FOR REINFORCEMENTS STNB FOR SINGLE TRACK RAI

TIP/TYPE	TIP ARMATURA TYEPE REINFOCEMENT	Nr. BUC. No. PIECE	kg/m	m/buc. m/piece	kg
TIP 2 TYPE 2	STNB	22	0.222	5.55	27,00
				TOTAL	27,00kg

TOTAL POD (2 TABLIERE): 2 x 27kg=54kg

TOTAL BRIDGE (2 DECKS): 2 x 27kg=54kg


10 10 10 2x15 2x18 4
5 10 10 5 5
35
14
25
273.5
69.4
10 10 10 15 15 18 18 4
5.5
9
5
6
19
25
18a
19
5.5
PREDEAL
273.5
69.4
10 10 10 15 15 18 18 4
4
20
15
14
14
9
6
82
18
13

EXTRAS DE ARMATURA PENTRU UN TABLIER DE CALE FERATA SIMPLA

TABLE FOR REINFORCEMENTS FOR SINGLE TRACK RAILWAY DECK

M	ø	B	L(m)	S355 (PC52ø12)	S345 (PC52ø16)
1	16	31	5.20		161.20
1a	16	33	5.20		171.60
2	12	28	12.00	336.00	
3	12	54	6.70	361.80	
3a	12	8	5.80	46.40	
4	12	35	9.80	343.00	
4a	12	6	9.80	58.80	
5	12	238	1.25	297.50	
6	12	336	0.60	201.60	
7	12	54	1.05	56.70	
7a	12	54	1.70	91.80	
7b	12	2	0.70	1.40	
7c	12	6	1.25	7.50	
7d	12	54	0.35	18.90	
8	12	4	4.90	19.60	
9	12	62	1.20	74.40	
10	12	54	0.60	32.40	
11	12	9	2.70	24.30	
12	12	54	1.60	86.40	
12a	12	54	1.30	70.20	
13	12	19	9.80	28.80	
14	12	54	1.25	67.50	
15	12	54	1.25	67.50	
16	12	1	11.60	11.60	
17	12	4	11.10	44.40	
18	12	54	1.80	97.20	
18a	12	54	1.60	86.40	
19	12	48	2.60	124.80	
20	12	4	1.60	171.20	
LUNGIMI/ø				2828.10	332.80
GREUTATI/ML (kg)				0.888	1.578
GREUTATI/ø				2512	526
GREUTATE PE TIP DE OTEL				3038	
PIERDERI 5%				152	
GREUTATE TOTALA				3190	

TOTAL POD (2 TABLIERE): 2 x 3190kg=6380kg
TOTAL BRIDGE (2 DECKS): 2 x 3190kg=6380kg

NOTA/NOTE

Pentru mentinerea pozitiei corecte in timpul betonarii, se vor monta distantieri minim 4buc./m^2. Distantierii trebuie legati cu sarma de carcasa de armatura.

In order to maintain the correct position during concreting, minimum 4pcs./m^2 distance pieces shall be mounted. The distance pieces shall be connected to the reinforcing framework, using wire.

Se interzice copierea, difuzarea, imprumutarea sau utilizarea in alte scopuri, fara permisiunea ISPCF ca proprietar al desenului.
This drawing is forbidden to be copied, lent or used in other purposes than those previously approved by ISPCF–SA as its owner.

FERATA SIMPLA
LWAY DECK

D					
C					
B					
A					
Indice Index	Data Date	Modificare Modification/Revision	Proiectant Designer	Aprobat Consultant Approved Consultant	Aprobat CFR Approved CFR

GUVERNUL ROMANIEI
ROMANIAN GOVERNMENT

PROIECT FINANȚAT DE UNIUNEA EURO
EUROPEAN UNION FINANCED PR

CLIENT / CLIENT

C.N.C.F. "C.F.R." - S.A.

ITALFERR
GRUPPO FERROVIE DELLO STATO
Joint Venture leader

Scott Wilson

OBERMEYER
PLANEN + BERATEN GmbH

TECNIC
Consulting Engineers

CONSULTANT / CONSULTANT

			Data Date	Semnătură Signature
Aprobat Approved	Şef proiect Project manager	R. Liuzza		
Aprobat Approved	Coordonator Secțiune 1 Section 1 Coordinator	C. Gambelli		
Verificat Checked	Expert Cheie Checking Expert	V.Kallidromitis		

SUBCONTRACTANT / SUBCONTRACTOR

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible	A. Dinulescu Stanciu	01.2012	
Întocmit Elaborated	Proiectant Designer	Valentin Florea	01.2012	

Reabilitarea liniei de cale ferata Brașov - Simeria, parte componentă a coridorului IV Pan European, pentru circulația trenurilor cu viteza maximă de 160 km/h,
Tronsonul : Brașov - Sighișoara
Rehabilitation of the railway line Brașov - Simeria, component Part of the IV Pan-European Corridor, for the trains circulation with maximum speed of 160 km/h,
Section : Brașov - Sighișoara

Proiect/Project
2004/RO/16/P/PA/003

Faza / Phase:
P.Th. / T.D.

Denumire desen / Drawing Title :

INTERVAL/SECTION VANATORI - ALBESTI
POD GMIB L=9.00m / BRIDGE Km.273+693.416
ARMARE TABLIER / REINFORCEMENT DECK

Codificare / Codification System	Scara / Scale	LOT / LOT	Nr. / No
E A 5 1 · 0 1 · E · 1 8 · B C · P V · 0 4 · 2 · 3 · 0 0 9 · 0	1:50		01 / 01

3400x420