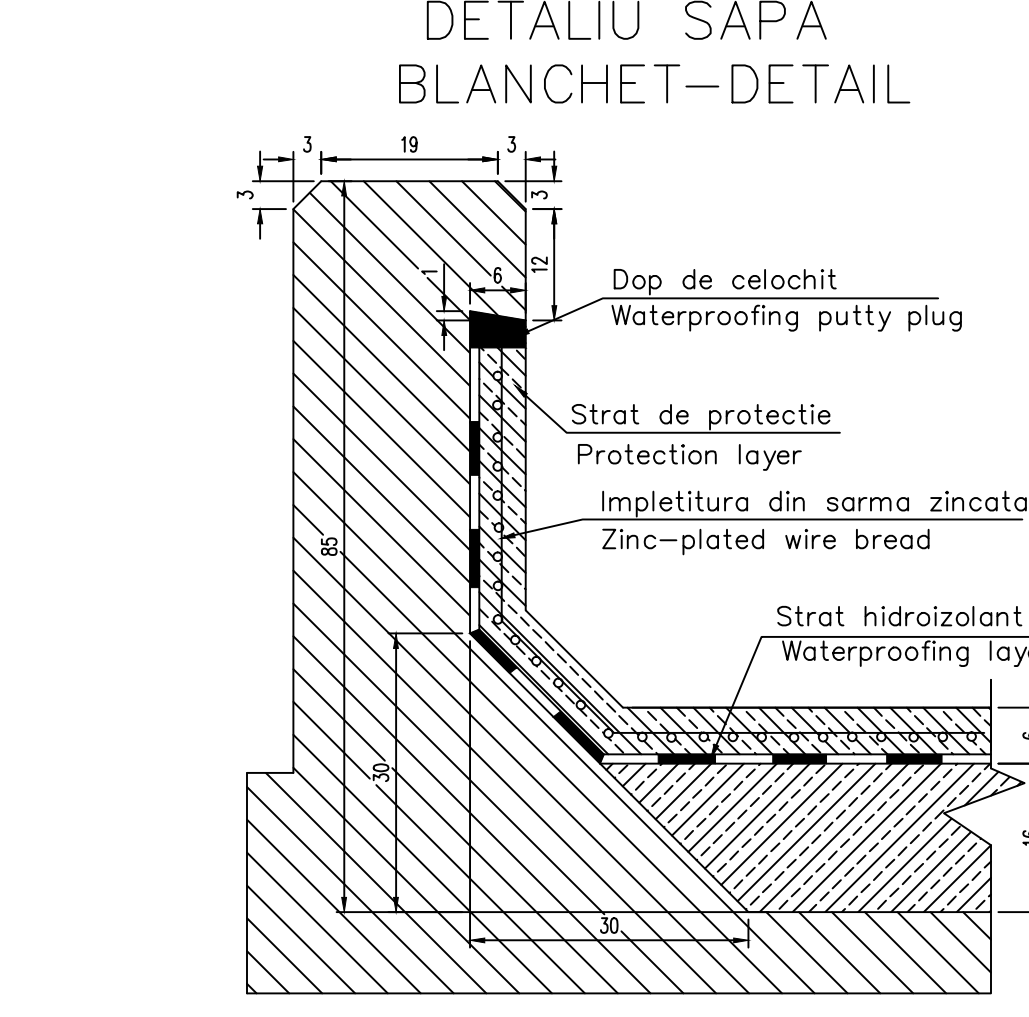
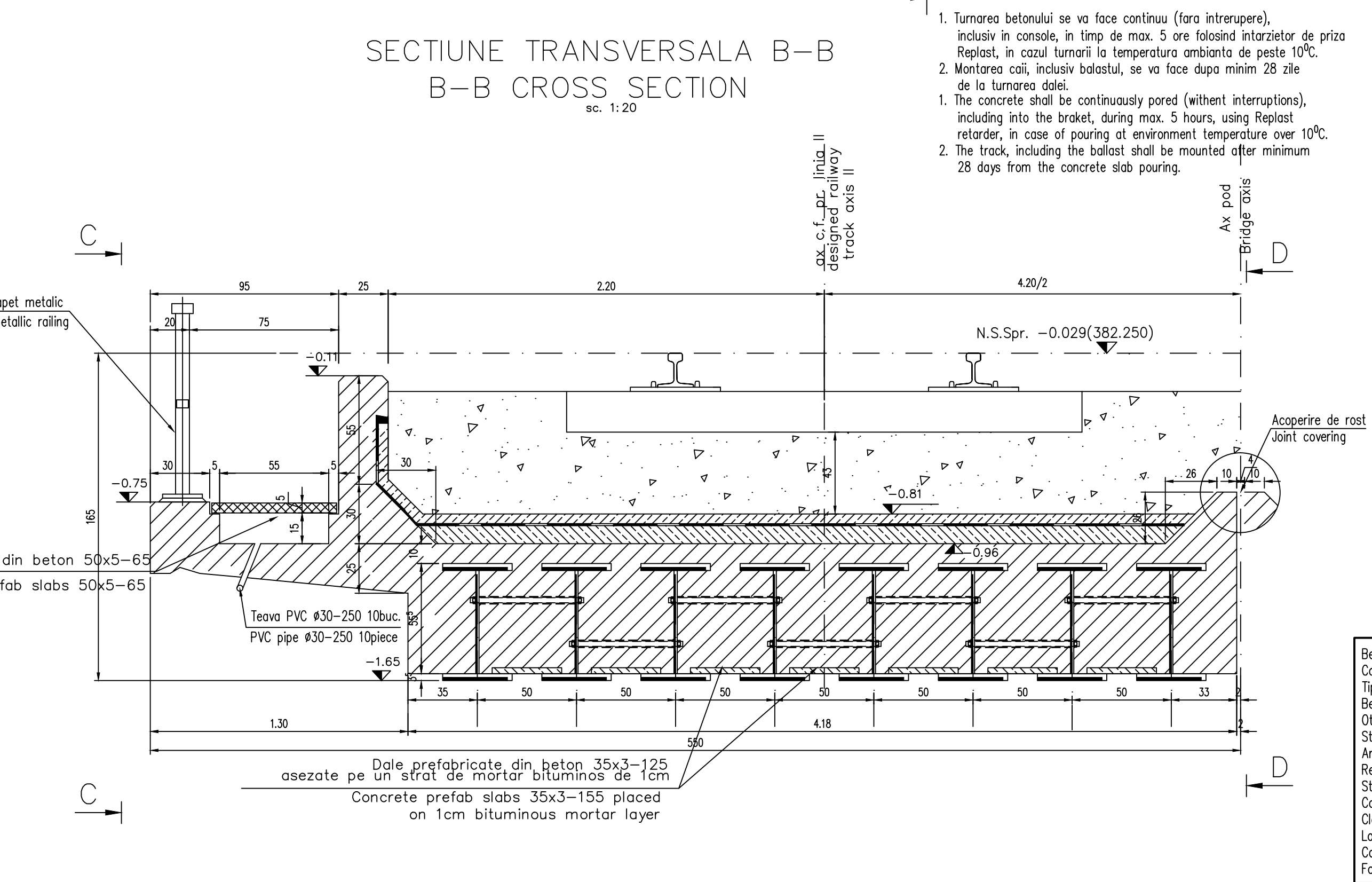


MATERIALE
(- OL37 EP STAS 12187-88 elementele grinzilor metalice.)
- S275J0 EN 10025/2004



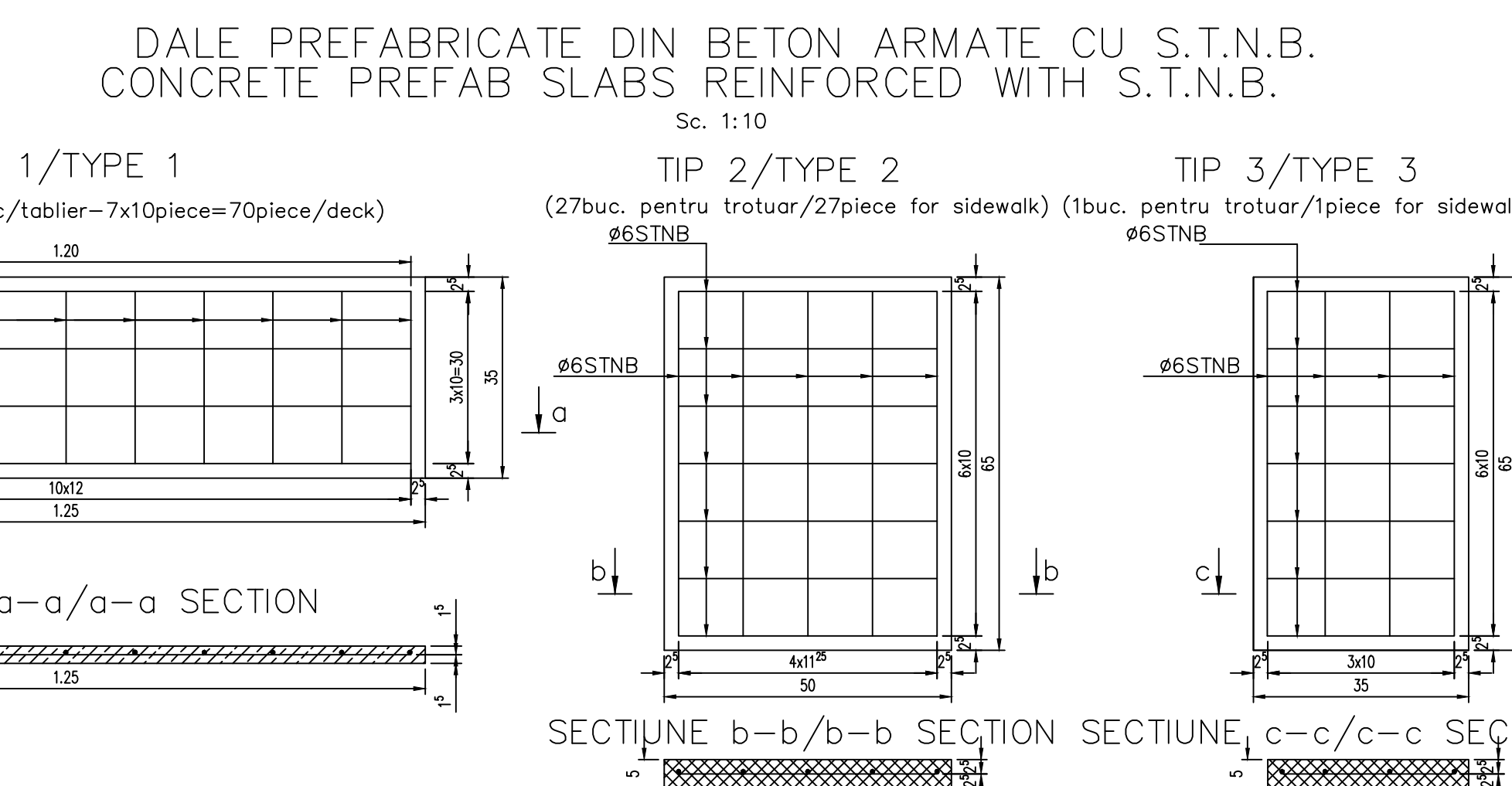
Beton:	- C30/37 suprastructura/superstructura
Concrete:	- C30/37 suprastructura/superstructura
Tipul grinzilor:	- grinzii metalice sudate/steel welded girders
Beams type:	- grinzii metalice sudate/steel welded girders
Otel pentru grinzii:	- (OL 37-EP) S275J0 G3 (EN 10025/2004)
Steel for the beams:	- S355
Armatura:	- min. 4cm expunere in aer/air exposed
Reinforcement:	- min. 4cm expunere in aer/air exposed
Strat de acoperire:	- calculat cu convoiuil T8.5, verificat cu
Concrete cover:	- convoiuil UIC 71
Clasa de incarcare:	- Metal sau lemn/Steel or wood
Load class:	- Metal sau lemn/Steel or wood
Cofraj:	- Metal sau lemn/Steel or wood
Formwork:	- Metal sau lemn/Steel or wood

NOTA

- La executia in uzina a grinzilor metalice sudate se vor respecta cu strictete prevederile STAS 9407-75.
- In uzina se va aplica o protectie anticoroziva pe talpile inferioare si pe o treime din mina grinzilor metalice.
- Protectia anticoroziva se va executa dintr-un strat de baza alcatuit dintr-o pelicula de zinc de 80µm grosime si doua straturi de invelis poliuretanic, fiecare de 65µm.
- Stratul de baza si un invelis poliuretanic se vor aplica in uzina, urmand ca ultimul strat poliuretanic sa fie aplicat pe santier dupa finalizarea lucrarilor la suprastructura.
- Pregatirea suprafetelor metalice in vederea aplicarii procedurilor de protectie anticoroziva se face prin:
 - Pierirea de rugină cu ajutorul unor perii de sarma.
 - Spalarea suprafetelor metalice.
 - Degresarea cu solventi organici prin stergere sau cu emulsii.
 - Dupa degresare se spala cu jet de apa pentru indepartarea urmelor de detergent. Solutia pentru degresare va fi aleasa astfel incat sa nu afecteze mediul.
 - Curatirea suprafetelor se va face conform gradului SA 1 1/2.

NOTE

- The provisions STAS 9407-75 will be strictly observed when the welded metallic girders are manufactured in the factory.
- In the plant, corrosion protection will be applied on the lower flanges and on one third of the web of metallic girders.
- The protection against corrosion will consist in a primary layer made of a zinc membrane (80µm thickness) and two polyurethane covering layer, each of 65µm thickness.
- The primary layer and the first polyurethane covering layer will be applied in the factory and the second polyurethane layer will be applied on site, after completing the superstructure works. Finalizarea lucrarilor la suprastructura.
- Preparing the metallic surfaces in order to apply the corrosion-proof procedures shall be made by:
 - Rust removal using wire brushes.
 - Washing the metallic surfaces.
 - Organic solvent degreasing by wiping or using emulsions.
 - After degreasing, the surface is washed by water jet to eliminate the detergent stains. The solution selected for degreasing shall not affect the environment.
 - Cleaning the surfaces is made according to the SA 1 1/2.



EXTRAS DE ARMATURA STNB PENTRU UN TABLIER DE CALE FERATA SIMPLA TABLE FOR REINFORCEMENTS STNB FOR SINGLE YRAK RAILWAY DECK

TIP/TYPER	TIP ARMATURA TYPE REINFORCEMENT	Nr. BUC. No. PIECE	kg/m	m/buc. m/piece	kg
TIP 1 TYPER 1	STNB 6 G.Q.283	70	0.222	8.10	130,00
TIP 2 TYPER 2	STNB 6 G.Q.283	27	0.222	6.15	37,00
TIP 2 TYPER 2	STNB 6 G.Q.283	1	0.222	4.50	1,00
TOTAL					168,00kg

LEGENDA BETOANELOR/CONCRETE LIST

	Beton armat in grinzii inglobate de clasa Concrete in bearings and in the deck slabs
	C 30/37-CEM II/A-S 42,5-(XC4+XF3+XA1)-A/C=0,50-Dmax.16-CI 0,20
	Beton de protectie. Concrete in the protection layer of waterproofing system.
	C 25/30-CEM II/A-S 32,5-(XF3)-A/C=0,55-Dmax.16-CI 0,20
	Beton in stratul de protectie a hidroizolatiei. Concrete in the protection layer of waterproofing system
	C 25/30-CEM II/A-S 32,5-(XC4+XF3)-A/C=0,50-Dmax.16-CI 0,20
	Beton in dalele prefabricate pentru trotuare. Concrete in the prefab slabs required for the sidewalks
	C 25/30-CEM II/A-S 32,5-(XC4+XF3+XA1)-A/C=0,50-Dmax.22-CI 0,20
	Beton in dalele prefabricate pentru grinzile inglobate in beton. Concrete in the prefab slabs required for the decks made out of steel girders embedded in to concrete
	C 35/45-CEM II/A-S 42,5-(XC4+XF3+XA2)-A/C=0,50-Dmax.8-CI 0,10

In cazul in care temperatura in timpul turnarii este scazuta, se vor folosi cimenturile cu rezistenta initiala mare, R si aditivi acceleratori, iar in cazul turnarii pe timp cald, cimenturile cu rezistenta initiala uzuala, N si aditivi intarziatori (conform NE 012/2-2010 si tabelului 2 din SR EN 197-1:2002).
When the temperature during the casting is low, cements with high initial resistance, R and accelerating additives shall be used and when it is cast during warm weather, cements with common initial resistance, N and delaying additives shall be used (according to the norm NE 012/2-2010 and table 2 for the SR EN 197-1: 2002).

D					
C					
B					
A	12.2011	Revizua 1 1 Revision	Dinu Andreea	Aprobat Consultant	Aprobat CFR
Indice Index	Data Date	Modificari Modification/Revision	Proiectant Designer	Aprobat Consultant Approved Consultant	Aprobat CFR Approved CFR

GUVERNUL ROMANIEI ROMANIAN GOVERNMENT

PROIECT FINANAT DE UNIUNEA EUROPEANA EUROPEAN UNION FINANCED PROJECT

CFR

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

CLIENT / CLIENT

ITALFER GRUPA FERROVIE ROMANE SCURT
Scott Wilson
OBERMEYER PLANEN + BERATEN GmbH
TECNIC Consulting Engineers

CONSULTANT / CONSULTANT

Aprobat Approved	Seif project Project manager	R. Liuzza	Data Date	Semnatura Signature
Aprobat Approved	Coordonator Sectiune 1 Section 1 Coordinator	C. Gambelli		
Verificat Checked	Expert Chief Checking Expert	V. Kallidromitis		

SUBCONTRACTANT / SUBCONTRACTOR

Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible	A. Stanciu - Dinulescu	11.2011	
Elaborat Elaborated	Proiectant Designer	Dinu Andreea	11.2011	

Reabilitarea liniei de cale ferata Brasov - Simeria, parte componenta a coridorului IV Pan European, pentru circulatia trenurilor cu viteza maxima de 160 km/h, **Trenonul - Brasov - Sighisoara**
Rehabilitation of the railway line Brasov - Simeria, component Part of the IV Pan-European Corridor, for the trains circulation with maximum speed of 160 km/h,
Section : Brasov - Sighisoara

Proiect/Project
2004/RO/16/PPA/003
Faza / Phase:
P.Th. / T.D.
D.E. / E.D.

Denumire desen / Drawing Title : **INTERVAL / SECTION ARCHITA - VANATORI**
POD / BRIDGE Km 267+963.152 D=12.00m+35.00m+12.00m
COFRAJ SUPRASTRUCTURA LINIA 2 - TABLIER 1 SUPERSTRUCTURE SHUTTERING RAILWAY 2- DECK 1

Codificare / Codification System	Scara / Scale 1:20	LOT / LOT	Nr. / No 01 / 01
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E A S I 0 1 E 1 6 B B P V 0 4 0 3 0 1 0 1