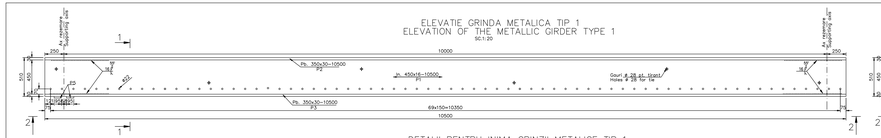
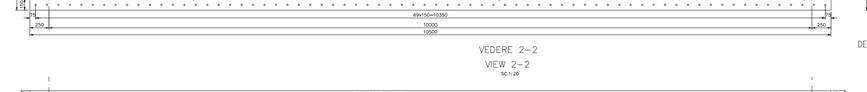
ELEVATIE GRINDA METALICA TIP 1
ELEVATION OF THE METALLIC GIRDER TYPE 1
SC1:25



DETALII PENTRU INIMA GRINZII METALICE TIP 1
DETAILS FOR THE METALLIC GIRDER WEB TYPE 1
(Holes position for distance pieces and transversal reinforcement)
SC1:20

VEDERE 2–2
VIEW 2–2
SC1:20

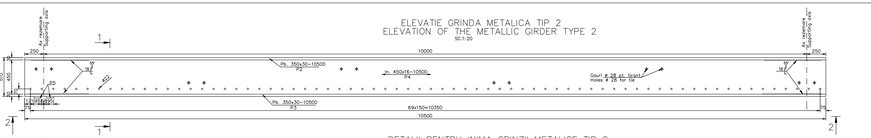


NOTA/NOTE

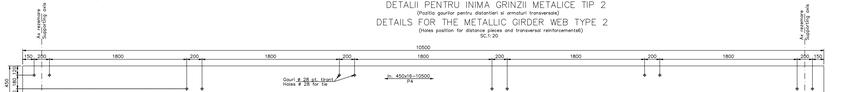
Placutele de la aparatele de reazem se vor somfrena cu un unghi de 60°. Gaurile din inima pentru armatura de asezare vor fi gaurite.

The plates of the bearing blocks will be chamfered at an angle of 60°. The web holes for the strong reinforcements will be bored.

ELEVATIE GRINDA METALICA TIP 2
ELEVATION OF THE METALLIC GIRDER TYPE 2
SC1:20



DETALII PENTRU INIMA GRINZII METALICE TIP 2
DETAILS FOR THE METALLIC GIRDER WEB TYPE 2
(Holes position for distance pieces and transversal reinforcement)
SC1:20



DETALIU DE MONTARE PLACUTE APARAT DE REAZEM FIX
DETAIL TO MOUNT THE FIXED BEARING BLOCK PLATES
sc. 1:10

DETALIU DE PRINDERE A GRINZILOR METALICE
DETAIL FOR METALLIC GIRDERS FASTENING
SC1:10

SCHEMA AMPLASARII DISTANTIERILOR
SKETCH FOR THE DISTANCE PIECES LOCATION
SC1:100

BRASOV — SIGHISOARA

ELEMENTE DE ASAMBLARE
–Piulita M24 STAS 4971–88 Clasa de precizie "C"
–Saiba STAS 5200/4–91–24–OL 34

ASSEMBLY ELEMENTS
–Nut M24 STAS 4971–Precision class "C"
–Washer STAS 5200/4–91–24–OL 34

EXTRAS DE MATERIAL PENTRU O GRINDA METALICA TIP 1 OL37–EP
MEASURING MATERIAL FOR UNE METALLIC GIRDERS TYPE 1 OL37–EP

Poz.	Denumire	Dimensiuni	Nr. buc. asemenea	Greutate OL37 EP		
				kg/ml	kg/buc.	Total(kg)
P1	Inima	450x16-10500	1	56.53	593.40	595
P2	Platbanda superioară	350x30-10500	1	82.45	865.60	866
P3	Platbanda inferioară	350x30-10500	1	82.45	865.60	866
P5	Piesute sp. fixt	95x20–200	2	14.92	2.98	6
				Total(kg)		2333
				Sudura 2%		47
				Total(kg)		2380

TOTAL PENTRU UN TABLIER: 2 grinzi x 2380kg=4760kg
TOTAL PENTRU 2 TABLIERE: 2 x 4760kg=9520kg
TOTAL FOR 1 DECK: 2 girders x 2380kg=4760kg
TOTAL FOR 2 DECKS: 2 × 2 girders × 2380kg=9520kg

EXTRAS DE MATERIAL PENTRU O GRINDA METALICA TIP 2 OL37–EP
MEASURING MATERIAL FOR UNE METALLIC GIRDERS TYPE 2 OL37–EP

Poz.	Denumire	Dimensiuni	Nr. buc. asemenea	Greutate OL37 EP		
				kg/ml	kg/buc.	Total(kg)
P4	Inima	450x16-10500	1	56.53	593.40	595
P2	Platbanda superioară	350x30-10500	1	82.45	865.60	866
P3	Platbanda inferioară	350x30-10500	1	82.45	865.60	866
P5	Piesute sp. fixt	95x20–200	2	14.92	2.98	6
				Total(kg)		2333
				Sudura 2%		47
				Total(kg)		2380

TOTAL PENTRU UN TABLIER: 6 grinzi x 2380kg=14280kg
TOTAL PENTRU 2 TABLIERE: 2 x 6 grinzi x 2380kg=28560kg
TOTAL FOR 1 DECK: 6 girders x 2380kg=14280kg
TOTAL FOR 2 DECKS: 2 × 6 girders ×2380kg=28560kg

TOTAL OL37–EP=38100kg
TOTAL S275JyG=38100kg

EXTRAS DE MATERIAL PENTRU SOLIDARIZAREA GRINZILOR METALICE
PENTRU UN TABLIER DE CALE FERATA SIMPLA
TABLE OF MATERIALS TO JOIN THE METALLIC GIRDERS FOR SINGLE TRACK RAILWAY BRIDGE DECK

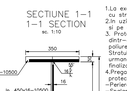
Poz.	Denumire	Dimensiuni	Nr. buc. asemenea	Greutate OL37 EP		
				kg/ml	kg/buc.	Total(kg)
P6	Distanter teava Pipe distance piece	ø42x3–584	42	2.88	1.68	71
P7	Tirant S235 Threaded S235	Ø25, L=695	42	3.85	2.68	113
P8	Piulite Nuts	M24	84	–	0.10	8
P9	Saibe Washers	M24	84	–	0.023	2
				Total(kg)		200

TOTAL POD (2 TABLIERE): 2 × 200kg=400kg
TOTAL BRIDGE (2 DECKS): 2 × 200kg=400kg

NOTA

1.La executia in uzina a grinzilor metalice sudate se vor respecta cu strictete prevederile STAS 9407–75.
2.In uzina se va aplica o protectie anticoroziva pe talpile inferioare si pe o treime din inima grinzilor metalice.
3. Protectia anticoroziva se va executa dintr-un strat de baza alcatuit dintr-o pelicula de zinc de 80µm grosime si doua straturi de invelis protector cu grosimea de 80µm.
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.
4.Pregatirea suprafetelor metalice in vederea aplicarii procedeelor de protectie anticorozive se face prin:
–Periere de rugina cu ajutorul unor perii de sarma.
–Sablarea suprafetelor metalice.
–Degresarea cu solventi organici prin stergere sau cu emulsii.
–Dupa degresare se spala cu jet de apa pentru indepartarea urmelor de detergent. Spalarea pentru degresare va fi aleasa astfel incat sa nu afecteze mediul.
Curatirea suprafetelor se va face conform gradului SA 1 1/2.

SECTIUNE 1–1
1–1 SECTION
sc. 1:10



MATERIALE
(– OL37 EP STAS 12187–88 elementele grinzilor metalice,)
– S275JyG+ EN 10025/2004

NOTE

1.The provisions STAS 9407–75 will be strictly observed when the welded metallic girders are manufactured in the factory.
2.In the plant anticorrosive protections will be applied on the lower flanges and on one third of the web of metallic girders.
3.The protection against corrosion will consist in a primary layer made of a zinc membrane (80µm thickness) and two polyurethane covering layer, each of 85µm 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.
4.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.
–Degreasing with solvents 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.

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Index	Data	Descriere / Description	Aprobat Consultant / Approved Consultant	Aprobat CFR / Approved CFR
D				
C				
B				
A	11.2011	Revizia 1 / Revision Modificare / Modification/Revision	Gergen Mario Proiectant / Designer	

GUVERNUL ROMANIEI / ROMANIAN GOVERNMENT

PROIECT FINANTAT DE UNIUNEA EUROPEANĂ / EUROPEAN UNION FINANCED PROJECT

CLIENT / CLIENT

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

ITALFERR Joint Venture leader | Bechtel | Parsons | OBERMEYER PLANEN + BERATEN GmbH | TECNIC Consulting Engineers

CONSULTANT / CONSULTANT

			Data	Semnătură / Signature
Șef proiect / Project manager				
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Aprobat / Approved:	Expert Clasa / Class Expert	C. Gambelli		
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SUBCONTRACTANT / SUBCONTRACTOR

Aprobat / Approved:	Responsabil Subcontractor / Subcontractor Responsible	A. Dinulescu Stanciu	08.2011	
Întocmit / Submitted:	Proiectant / Designer	Cempen Mario	08.2011	

Reabilitarea liniei de cale ferata Brasov - Simeria, parte component a coridorului IV Pan European, pentru circulatia trenurilor cu viteza maxima de 160 km/h, Transecut I - 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/transport/45

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

Denumire desen / Drawing Title :

STATIA FELDIOARA / STATION FELDIOARA

POD Km.192+526.157 Li=10.00m/GRINZI METALICE–TABLIER 2
BRIDGE Km.192+526.157 Li=10.00m/GIRDERS–DECK 2

| Codificare / Codification System | | | |