Supplementary Information

The following information is associated with Network Rail Standard:
NR CIV/SD/1403 Rev B

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CAD Drawing

- CIV/SD/1403

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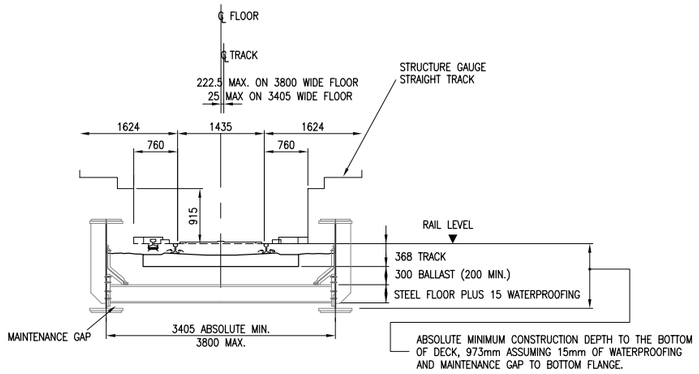
STEEL FLOOR – BALLAST DEPTHS 200mm TO 400mm

TYPE

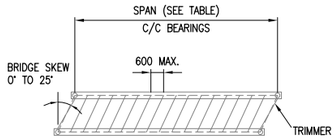


SPAN RANGE

12 TO 30 METRES

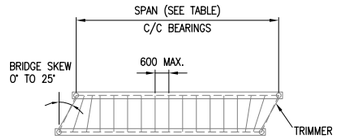
ARRANGEMENT OF FLOOR & TRANSVERSE RIBS

REFER TO TABLE FOR GUIDANCE ON CROSS GIRDER ARRANGEMENT FOR (APPROXIMATE) SPANS



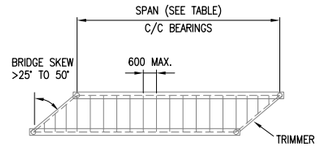
SKEWED TRANSVERSE RIBS

TRIMMER SKEW DIFFERS FROM BRIDGE SKEW



FANNED TRANSVERSE RIBS

TRIMMER SKEW DIFFERS FROM BRIDGE SKEW

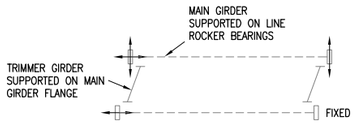


TRIMMED TRANSVERSE RIBS

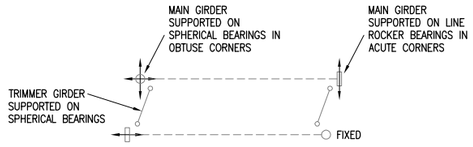
TRIMMER SKEW EQUALS BRIDGE SKEW

TRIMMER SKEW EQALS BRIDGE SKEW WHERE BRIDGE SKEW >25°

MAIN GIRDER AND TRIMMER GIRDER ARTICULATION

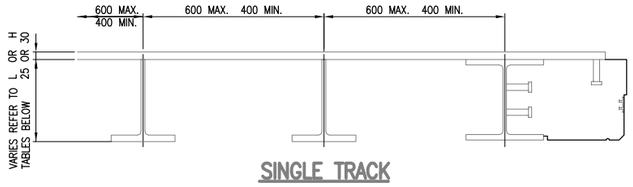


ALL SKEWS FROM SQUARE TO 25 DEGREES (SINGLE TRACK)



ALL SKEWS FROM 25 TO 50 DEGREES (SINGLE TRACK)

FLOOR



SINGLE TRACK

	STEEL FLOORS (RAIL TO TOP OF BOTTOM FLANGE)	
GIRDER TYPE	SINGLE	SINGLE
TRACK DEPTH	368mm	368mm
BALLAST DEPTH	200mm	300mm
TOTAL DEPTH	973mm	1073mm

NOTE.
TOTAL CONSTRUCTION DEPTH SHALL ADD BOTTOM FLANGE THICKNESS, AND ANY DOUBLER TO FIGURES PROVIDED. TO BE DETERMINED BY SCHEME DESIGNER.

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NOTES

1. LIMITS OF APPLICABILITY.

   WHERE NARROW FLOORS ARE SPECIFIED OR THE TRACK IS OFFSET FROM THE FLOOR CENTRELINE OR THE TRACK CURVED, THE DESIGNER SHALL ENSURE SUITABLE CLEARANCE BETWEEN THE TRACK (INCLUDING SLEEPERS) AND THE INFRASTRUCTURE ABOVE AND BELOW BALLAST LEVEL.

2. TRANSVERSE RIB ARRANGEMENT

   THE TABLE BELOW INDICATES THE ARRANGEMENT OF THE TRANSVERSE RIBS FOR DIFFERENT SPAN AND SKEW ARRANGEMENTS. THE TABLE IS INDICATIVE ONLY AND THE DESIGNER MUST SELECT THE APPROPRIATE ARRANGEMENT FOR THE SCHEME SPECIFIC SKEW, SPAN AND DECK WIDTH.

SKEW (DEGREES)	SPAN (APPROX)	TRACK TYPE	TRANSVERSE RIB ARRANGEMENT
0 TO <25	12m TO 30m	SINGLE	FANNED/SKEWED
>25	12m TO 30m	SINGLE	TRIMMED

3. DECK FLOORS HAVE BEEN DESIGNATED LIGHT (L) AND HEAVY (H) DEPENDING ON THE ANNUAL RAILWAY TRAFFIC TONNAGE PER TRACK AND THE TRAFFIC TYPE. REFER TO TABLE BELOW.

MAIN GIRDERS AND STEEL FLOORS

TRAFFIC \ ANNUAL TONNAGE x10⁶	42–27	27–18	18–12	12–7
25t axles	HEAVY			
EC Mix	HEAVY			LIGHT
Type 9 MUs	HEAVY			LIGHT

B

Rev	Date	Description of revision	Design'd	C'kd
B	MAY 10	EUROCODE ISSUE	AGW	NY
A	22.12.09	FIRST ISSUE	AGW	NY
P2	05.02.09	DOUBLE TRACK MOVED TO 1503	DG	IP
P1	04.02.09	INDEPENDENT CHECK	DG	IP

Network Rail

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	Name	Position	Signature	Date
Approved	Paul Clark	Snr. Proj. Eng. Manager Infrastructure Investment Building and Civils	P.C.	MAY 10

Master copy with original signatures held by Network Rail HQ CIVIL ENGINEERING STANDARD DESIGN

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'D' TYPE UNDERBRIDGE STANDARD DRAWINGS

GENERAL INFORMATION
KEY TO TYPES
STEEL FLOOR

Scale: AS SHOWN

Drawing Number: NR/CIV/SD/1403 B