





报告编号: JC2022CP135



Test reports

Entrusting party:

Product name:

Corrugated beam plate (Hot dip galvanizing coating)

Test category:

Commissioned sampling inspection

Date of approval:

21.10.2022

China Transport Telecommunications and Information Center

Entrusting party		Order number	JC2022CP135		
Product name	Corrugated beam plate (Hot dip galvanizing coating)	Model specification	DB01 (4320×310×85×3) mm		
Production unit	展高縣程文書位為有限立何	Detection site	Workshop of plant		
Series number	-/-	Number of samples	JC2022CP135		
Date of sampling/ Date of production	17.09.2022/01.08.2022	Sample receiving date	22.09.2022		
Sampling place/ Sampling person	Factory warehouse/Liupeng	Sampling basic number	50		
Test date	17.09.2022/20.10.2022	Sample quantity	50		
Test item	Appearance quality, outer dimension and allowable deviation, material requirements, processing requirements, adhesion amount of galvanized layer, thickness of galvanized layer, uniformity of galvanized layer, resistance to bending, resistance to salt spray corrosion, adhesion of galvanized layer.				
Main equipment and serial numbers	YQ-2048-11 digital vernier caliper, YQ-2049-10 digital micrometer, YQ-2015-08 tape measure, YQ-2051 universal Angle ruler, YQ-2040-03 microcomputer controlled electronic universal testing machine, YQ-2052-02 analytical balance, YQ-2052-01 electronic balance, YQ-2014-03 Feeler, YQ-2074 coating adhesion tester, YQ-2011-03 coating thickness tester, YQ-2015-04 straight ruler (50cm), YQ-2085 paint film bending tester, YQ-2039 salt spray corrosion resistance test chamber.				
Test environment	Factory temperature: 21.0°C Laboratory temperature: (22 ~ 23) °C Laboratory relative humidity: (50 ~ 55) %				
Test/ Evaluation Criteria	1.GB/T 31439.1-2015 "Corrugated beam steel guardrail Part 1: two-wave beam steel guardrail" 2, GB/T 18226-2015 "Technical conditions for anti-corrosion of steel components of Highway traffic engineering"				
Test conclusion	The samples of hot-dip galvanized coatin are all in line with the requirements of te	ng and wavy beam p sting/judging basis special seal for tes	ING		

检测: 图程 审核: 3亿 7 批准: 小七批准日期:。2022年 10月 21日

		 Sample state: surface intact, no defects; The coating color of the outer surface of the sample is silver white.
1	Sample description	
2	Detection specification	 single detection conclusion column '/' indicates that this does not make a decision; Client's technical requirements: connecting screw holes L-1, splicing screw holes P-3; Additional information of the order: 2022-CY-135
3	Deviation statement	None

Item number		Test item		Technical Requirements	Test Result	Single test result
1	Appearance quality		Cold-formed member	The surface of the cold-formed black member shall be free of defects such as cracks, bubbles, folds, inclusions and end-face delamination, but slight pits, bumps, indentations and scratches of no more than 10% of the nominal thickness are allowed; The cutting surface and mounting hole should be free of rolling edges, flying edges and serious burrs; no welding and lengthening.	Conform	Up to standard
			Zinc coating	The surface of the galvanized component should have the same color, uniformand complete plating parts should have no defects such as leakage plating; there should be no run-off, drips or excess clumps on the surface.	Conform	
2	Pro	cessing r	equirement	Wavy beam and plate should be formed by continuous roll forming. The bolt holes on the corrugated beam plate should be positioned accurately, and all splicing screw holes at each end should be punched at one time.	Conform	Up to standard
3	Overall dimension deviation from allowable	Corrugat	ed beam length L (mm)	4320.5	4320	Up to standard
		Plate width B (mm)		310°	310	Up to standard
		External wave height H (mm)		85,	85	Up to standard
		Internal wave height h (mm) Fence plate base plate thickness t (mm)		83.2	83	Up to standard
				3° 0.18	3.06	Up to standard
		Bolt hole distance	D (mm)	4000:4	4001	Up to standard
			X (mm)	160:	160	Up to standard
			Y (mm)	1001	101	Up to standard
		Connecting bolt	Nominal size a (mm)	50°1,	50. 2	Up to standard
			Nominal size b (mm)	18°1	18	Up to standard
		Splice hole	Nominal size a (mm)	40'1	39. 8	Up to standard
			Nominal size b (mm)	22° T	22	Up to standar
		Bending degree (mm/m)		≤1.5	0.3	Up to standar
		Total curvature (%)		≤0.15	0.02	Up to standar
		Notch perpendicularity tolerance (')		(≤30	20	Up to standar

报告编号: JC2022CP135

共5页第5页

放古骊	编号: JC2022CP135					界 0 火
Item number	Test item		st item	Technical Requirements	Test Result	Single test result
4	Material requirement	Mechanical property	Tensile (MPa)	≥375	390	Up to standard
			Yield strength (MPa)	≥235	286	Up to standard
			Elongation after fracture (%)	≥26	29. 0	Up to standard
5	Adhesion of galvanizing layer			After the adhesion test, the zinc layer does not peel, bulge, crack or layer up to the extent that it can be wiped off with bare fingers	Conform	Up to standard
6	Adhesion of galvanized layer (g/m²)			≥600	791	Up to standard
7	Galvanizing (μm) Thickness		izing (µm) ness	≥84	102	Up to standard
8	Coating (%)			The difference between the maximum thickness and the average thickness should not be greater than 40% of the average thickness.	19	Up to standard
	uniformity (%)		mity (%)	The difference between the average thickness and the minimum thickness should not be greater than 25% of the average thickness.		Up to standard
9	Resistance to bending of galvanized layer		ice to bending vanized layer	After the bending test, the zinc layer in the bending part should not be stripped, not raised, not cracked or raised to the extent that can be wiped off with bare fingers.	Conform	Up to standard
10	Corrosion resistance of zinc coating to salt spray			After the 168h neutral salt spray test, there should be no red rust phenomenon	Conform	Up to standard
	de la constantina della consta					

Note: The galvanized layer bending resistance sample is 0.3mm tinplate. The standard sample is made of the same raw material and the same process as the sample.(blank below)