Xiamen Yumi Imp.,&Exp., Co., Ltd.
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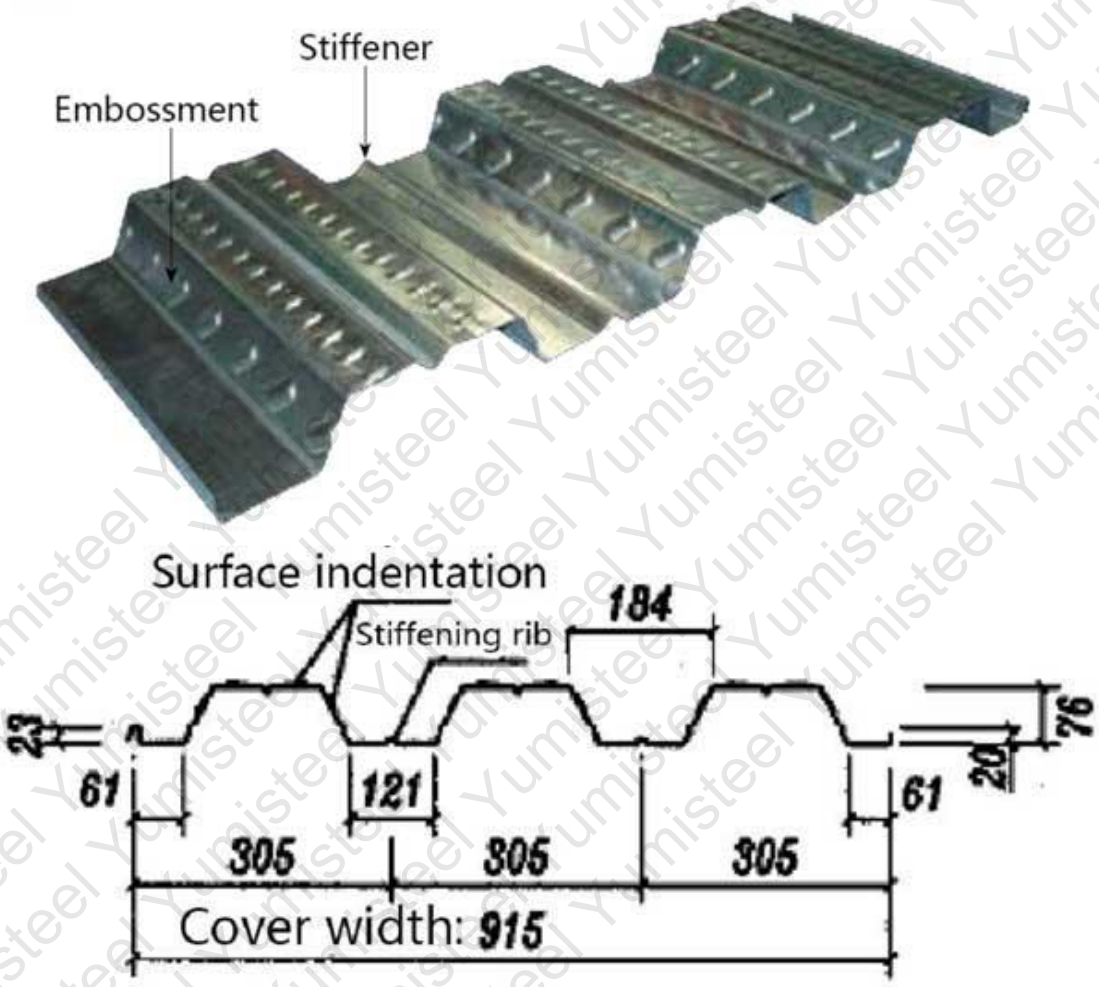
Long span composite floor steel deck for multiple storeys

1.Steel deck basic information:

☆ Cross section drawing:



☆ Sectional properties:

Thickness (mm)	Yield strength (Mpa)	Weight (KG/M²)	I (cm^4/m)	I (cm^3/m)
0.75	345	7.96	51.90	16.02
0.90	345	9.52	63.50	21.34
1.20	345	12.55	82.10	28.76
1.50	345	15.67	102.70	36.02

Note: This is calculated by standards Q345,we can also calculated by G550.

☆ **Material details:**

Thickness :	0.75 ~ 1.50 mm
Steel material :	High strength galvanized steel sheets
Material standards :	Q235, Q345, Q355, G550
Zinc coating :	120 ~ 275 g/m²
Length	Max 5.9 meters for 20FT container;
	Max 11.9 meters for 40FT container.

2.Steel deck advantages:

☆ Excellent bearing performance;

☆ Easy to be constructed and installed;

☆ It can improve shortcomings of traditional decks;

☆ Easy reinforcement,wiring,piping construction;

☆ It has nice and neat appearance.

3.Steel deck application:

The metal deck is mainly used as floor supporting in steel structure buildings,such as railway stations,exhibition centers,logistics centers,commercial high rise buildings,sports stadiums,etc.

4.Ultimate bending capacity under different concrete strength grade:

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Strength grade of concrete	Floor height(mm)	Thickness of Bondek(mm)	Mr(KNm)	Strength grade of concrete	Floor height(mm)	Thickness of Bondek(mm)	Mr(KNm)	Strength grade of concrete	Floor height(mm)	Thickness of Bondek(mm)	Mr(KNm)
C25	100	0.75	20.19	C30	100	0.75	20.67	C35	100	0.75	20.91
		0.90	22.90			0.90	23.59			0.90	24.02
		1.20	27.91			1.20	29.11			1.20	30.01
		1.50	32.63			1.50	34.48			1.50	36.02
	110	0.75	22.51		110	0.75	22.99		110	0.75	23.20
		0.90	25.69			0.90	26.38			0.90	26.77
		1.20	31.60			1.20	32.79			1.20	33.63
		1.50	37.22			1.50	39.08			1.50	40.56
	120	0.75	24.84		120	0.75	25.31		120	0.75	25.49
		0.90	28.48			0.90	29.16			0.90	29.51
		1.20	35.28			1.20	36.48			1.20	37.28
		1.50	41.81			1.50	43.67			1.50	45.09
	130	0.75	27.16		130	0.75	27.64		130	0.75	27.80
		0.90	31.27			0.90	31.95			0.90	32.26
		1.20	38.97			1.20	40.17			1.20	40.92
		1.50	46.40			1.50	48.26			1.50	49.62
	140	0.75	29.48		140	0.75	29.96		140	0.75	30.09
		0.90	34.06			0.90	34.74			0.90	35.02
		1.20	42.66			1.20	43.86			1.20	44.57
		1.50	50.99			1.50	52.85			1.50	54.14
	150	0.75	31.81		150	0.75	32.28		150	0.75	32.37
		0.90	36.84			0.90	37.53			0.90	37.78
		1.20	46.35			1.20	47.55			1.20	48.21
		1.50	55.59			1.50	57.44			1.50	58.66
	150	0.75	34.13		150	0.75	34.16		150	0.75	33.78
		0.90	39.63			0.90	40.32			0.90	40.54
		1.20	50.04			1.20	51.24			1.20	51.85
		1.50	60.18			1.50	62.04			1.50	63.21

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5.Steel deck loading tables:

Max span (double span)				
Thickness/ mm	Concrete slab depth (mm)			
Span/ mm	100	150	200	250
0.80	3600	3000	2700	2400
1.00	3900	3300	3000	2700
1.20	4300	3700	3300	3000

Allowable loading capacity								
Thickness/ mm	Span in meters							
loading capacity/ KN/M²	1.00	1.25	1.50	1.75	2.00	2.25	2.50	3.00
0.80	43.5	27.5	19.5	13.5	10.5	8.6	6.6	4.8
1.00	55.5	35.5	24.5	17.5	13.5	10.5	8.5	6.1
1.20	69.5	43.6	30.5	22.5	16.5	13.5	10.5	7.7

6.Steel deck installation steps:

→Installation accessories are installed as per design requirement:

→End details:Adopted to steel structure:

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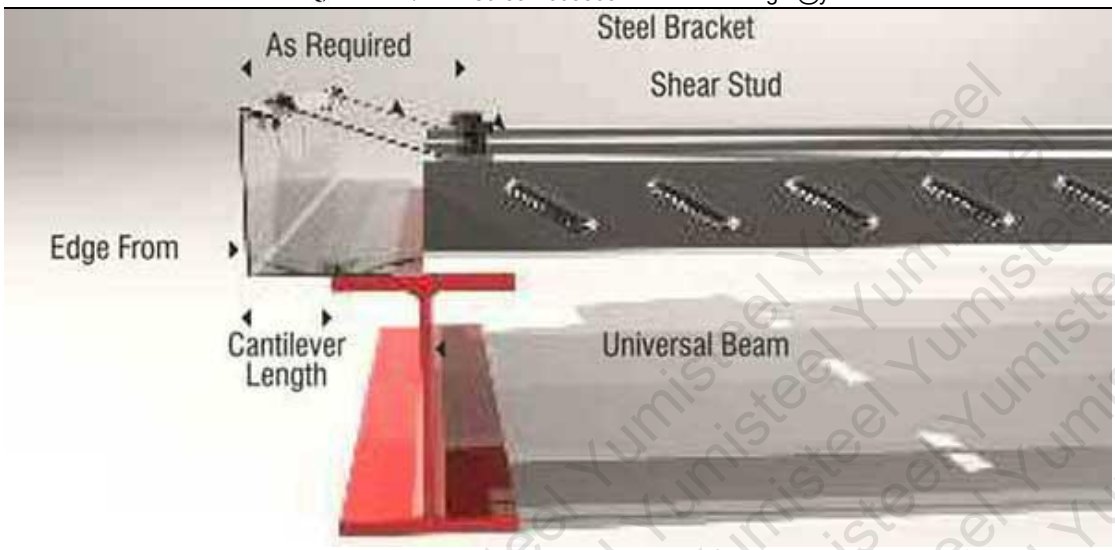
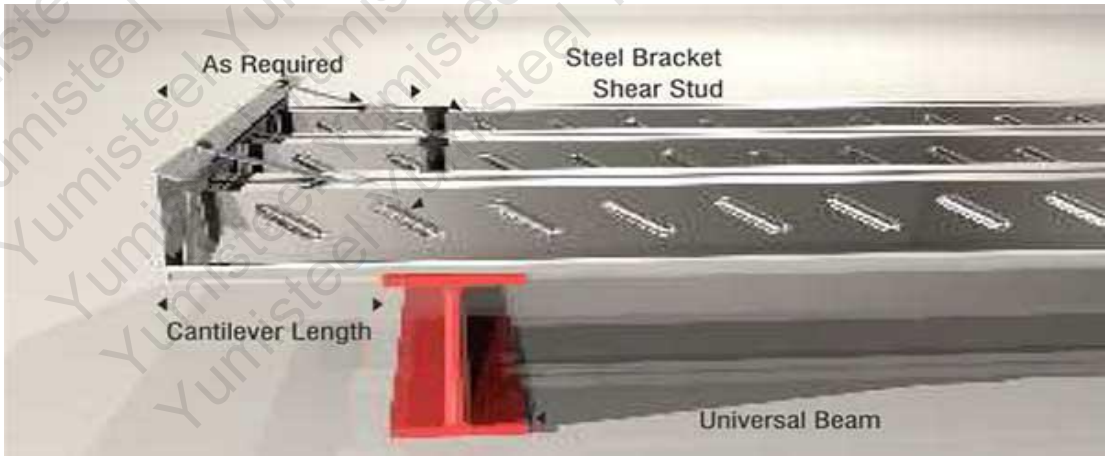


→End details: Adopted to cantilever end projections:

→Butt joint:Standard joint details for continuous casting of slab:



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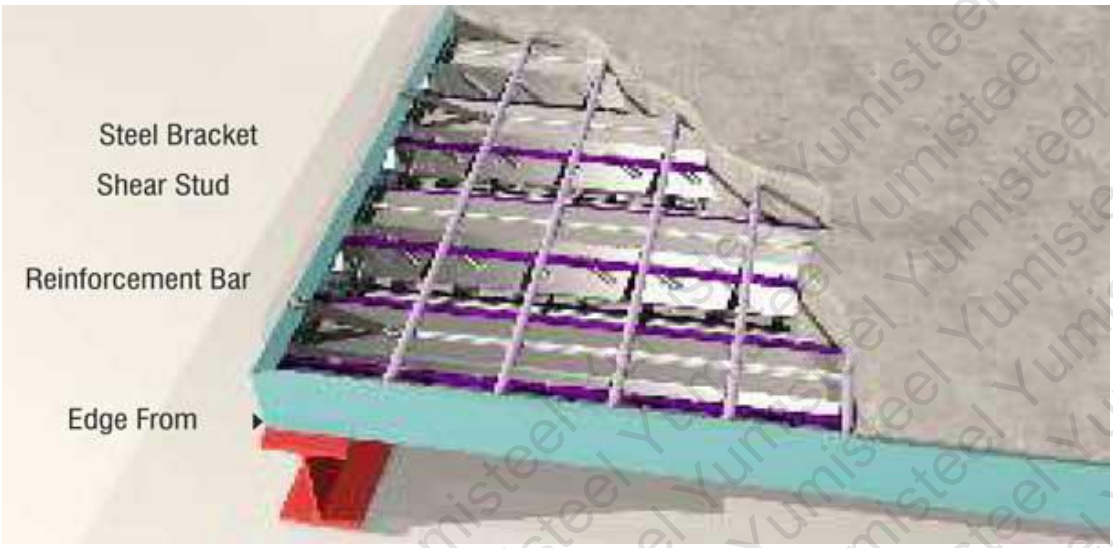
→Temporary support (If needed):



→Corner details:

→Concrete fixing details: