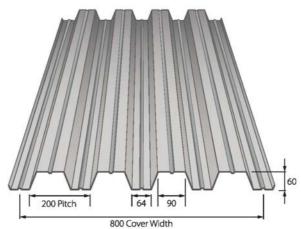
TATA STEEL



RoofDek D60

Colorcoat Steel 220 N/mm²

(not including S280 Interior Liner)



Ultimate Section Properties to Eurocode3

			Broad flange i	n compression	Narrow flange	in compression	100 mm Bearing on steel beam				
Nominal Thickness	Design Thickness	Weight	Moment Capacity			Moment of Inertia	Transverse Res	istance	Shear Capacity		
mm	mm	n kg/m² kNm		cm4/m	kNm/m	cm4/m	Internal Rw kN/m	End Rw kN/m	kN/m		
0.68	0.64	8.34	3.52	53.14	3.65	55.18	20.93	4.88	38.66		

Safe Imposed (positive) Loads (kN/m²)

Imposed load - deflection limit span / 200

Span	Thickness	SPAN (metres)															
Condition	mm	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00
Single	0.68	3.20	2.90	2.66	2.36	1.87	1.51	1.23	1.01	-	-	-	-	-	-	-	-
Double	0.68	3.19	2.75	2.39	2.10	1.86	1.65	1.48	1.34	1.21	1.10	1.00	0.92	-	-	-	-
Multi	0.68	3.56	3.23	2.88	2.53	2.25	2.01	1.80	1.63	1.48	1.34	1.23	1.13	1.04	0.96	-	-

Safe Wind Suction (negative) Loads (kN/m²)

Wind suction load - deflection limit span $/\ 90$

Span	Thickness	SPAN (metres)															
Condition	mm	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00
Single	0.68	4.91	4.07	3.43	2.93	2.53	2.21	1.95	1.74	-	-	-	-	-	-	-	-
Double	0.68	4.75	3.94	3.32	2.83	2.45	2.14	1.89	1.68	1.50	1.36	1.23	1.12	-	-	-	-
Multi	0.68	5.93	4.91	4.13	3.53	3.05	2.66	2.35	2.09	1.87	1.68	1.52	1.39	1.27	1.16	-	-

NOTES Black figures are stress limited, the load shown is the ultimate load divided by 1.5.

Blue figures are deflection limited.

 $Red\ figures\ indicate\ that\ deck\ length\ exceeds\ 12m\ the\ maximum\ advisable.\ Consider\ extended\ end\ laps$

2 Calculations are to Eurocode, however additional checks such as fixings are required

T: +44 (0)845 30 88 330 A construction line load 2 kN/m has been allowed for.

E: roofdek@tatasteel.comDeck self weight has been allowed for, so does not have to be included in applied loads