

38 mm deck - 914 mm wide - 152 mm flute spacing

Thickness = 0.76 mm

Support connection: Hilti X-EDN19, X-EDNK22

Limit States Design – FACTORED RESISTANCE

Side-lap connection: Button Punch

$\phi = 0.50$

SDI METHOD – METRIC

Support Connection Pattern	Side Lap Spacing (mm)		Span (mm)									
			900	1 050	1 200	1 350	1 500	1 650	1 800	1 950	2 100	
914/4	900	Strength, (kN/m)	5.0	4.4	4.0	3.6	3.3	3.0	2.8	2.6	2.4	
		Stiffness, G', (10 ³ N/mm)	1.6	1.9	2.1	2.2	2.4	2.5	2.6	2.7	2.8	
	600	Strength, (kN/m)	5.1	4.6	4.2	3.9	3.5	3.3	3.0	2.9	2.7	
		Stiffness, G', (10 ³ N/mm)	1.6	1.9	2.1	2.2	2.4	2.5	2.6	2.7	2.8	
	300	Strength, (kN/m)	5.7	5.2	4.8	4.5	4.3	4.0	3.9	3.7	3.5	
		Stiffness, G', (10 ³ N/mm)	1.7	1.9	2.1	2.2	2.4	2.5	2.7	2.8	2.9	
	230	Strength, (kN/m)	6.0	5.5	5.2	4.9	4.6	4.4	4.3	4.1	4.0	
		Stiffness, G', (10 ³ N/mm)	1.7	1.9	2.1	2.2	2.4	2.5	2.7	2.8	2.9	
	150	Strength, (kN/m)	6.6	6.2	5.9	5.6	5.4	5.2	5.1	5.0	4.8	
		Stiffness, G', (10 ³ N/mm)	1.7	1.9	2.1	2.3	2.4	2.6	2.7	2.8	2.9	
	914/7	900	Strength, (kN/m)	7.3	6.4	5.7	5.1	4.6	4.2	3.9	3.6	3.4
			Stiffness, G', (10 ³ N/mm)	8.6	8.9	9.0	9.1	9.0	8.9	8.7	8.6	8.4
600		Strength, (kN/m)	7.5	6.7	6.0	5.4	4.9	4.5	4.2	3.9	3.6	
		Stiffness, G', (10 ³ N/mm)	8.6	8.9	9.1	9.1	9.0	8.9	8.8	8.6	8.4	
300		Strength, (kN/m)	8.2	7.4	6.7	6.2	5.7	5.3	5.0	4.7	4.4	
		Stiffness, G', (10 ³ N/mm)	8.6	9.0	9.1	9.2	9.2	9.1	8.9	8.8	8.6	
230		Strength, (kN/m)	8.6	7.8	7.1	6.6	6.2	5.8	5.5	5.2	4.9	
		Stiffness, G', (10 ³ N/mm)	8.6	9.0	9.2	9.2	9.2	9.1	9.0	8.9	8.7	
150		Strength, (kN/m)	9.4	8.7	8.1	7.6	7.2	6.8	6.5	6.3	6.1	
		Stiffness, G', (10 ³ N/mm)	8.7	9.1	9.3	9.3	9.3	9.3	9.2	9.1	8.9	
914/9		900	Strength, (kN/m)	11.4	10.1	9.1	8.1	7.3	6.7	6.1	5.6	5.2
			Stiffness, G', (10 ³ N/mm)	9.4	9.9	10.3	10.5	10.6	10.6	10.6	10.5	10.4
	600	Strength, (kN/m)	11.6	10.3	9.3	8.4	7.6	6.9	6.4	5.9	5.5	
		Stiffness, G', (10 ³ N/mm)	9.4	9.9	10.3	10.5	10.6	10.7	10.6	10.5	10.4	
	300	Strength, (kN/m)	12.2	10.9	9.9	9.1	8.4	7.7	7.2	6.7	6.3	
		Stiffness, G', (10 ³ N/mm)	9.4	10.0	10.3	10.6	10.7	10.7	10.7	10.6	10.5	
	230	Strength, (kN/m)	12.5	11.3	10.3	9.5	8.9	8.2	7.7	7.2	6.8	
		Stiffness, G', (10 ³ N/mm)	9.4	10.0	10.4	10.6	10.7	10.8	10.8	10.7	10.6	
	150	Strength, (kN/m)	13.2	12.1	11.2	10.4	9.8	9.2	8.8	8.3	7.9	
		Stiffness, G', (10 ³ N/mm)	9.5	10.0	10.4	10.7	10.8	10.9	10.9	10.8	10.7	

38 mm deck - 914 mm wide - 152 mm flute spacing

Thickness = 0.91 mm

Support connection: Hilti X-EDN19, X-EDNK22

Limit States Design – FACTORED RESISTANCE

Side-lap connection: Button Punch

$\phi = 0.50$

SDI METHOD – METRIC

Support Connection Pattern	Side Lap Spacing (mm)		Span (mm)									
			1 200	1 350	1 500	1 650	1 800	1 950	2 100	2 250	2 400	
914/4	900	Strength, (kN/m)	4.8	4.4	4.0	3.7	3.4	3.2	3.0	2.8	2.7	
		Stiffness, G', (10 ³ N/mm)	3.0	3.2	3.4	3.6	3.7	3.8	3.8	3.9	3.9	
	600	Strength, (kN/m)	5.1	4.7	4.4	4.1	3.8	3.6	3.4	3.2	3.1	
		Stiffness, G', (10 ³ N/mm)	3.0	3.3	3.4	3.6	3.7	3.8	3.9	3.9	4.0	
	300	Strength, (kN/m)	6.0	5.6	5.3	5.1	4.9	4.7	4.5	4.4	4.2	
		Stiffness, G', (10 ³ N/mm)	3.1	3.3	3.5	3.6	3.8	3.9	3.9	4.0	4.1	
	230	Strength, (kN/m)	6.5	6.1	5.9	5.6	5.4	5.3	5.1	5.0	4.9	
		Stiffness, G', (10 ³ N/mm)	3.1	3.3	3.5	3.6	3.8	3.9	4.0	4.1	4.1	
	150	Strength, (kN/m)	7.4	7.2	6.9	6.7	6.6	6.4	6.3	6.2	6.1	
		Stiffness, G', (10 ³ N/mm)	3.1	3.3	3.5	3.7	3.8	4.0	4.1	4.2	4.2	
	914/7	900	Strength, (kN/m)	6.8	6.1	5.6	5.1	4.7	4.4	4.1	3.9	3.7
			Stiffness, G', (10 ³ N/mm)	11.6	11.5	11.3	11.0	10.7	10.3	10.0	9.7	9.4
600		Strength, (kN/m)	7.2	6.5	6.0	5.5	5.1	4.8	4.5	4.3	4.1	
		Stiffness, G', (10 ³ N/mm)	11.7	11.5	11.3	11.0	10.7	10.4	10.1	9.8	9.5	
300		Strength, (kN/m)	8.2	7.6	7.1	6.7	6.3	5.9	5.7	5.4	5.2	
		Stiffness, G', (10 ³ N/mm)	11.8	11.7	11.5	11.2	10.9	10.6	10.3	10.0	9.7	
230		Strength, (kN/m)	8.8	8.2	7.8	7.4	7.0	6.7	6.4	6.1	5.9	
		Stiffness, G', (10 ³ N/mm)	11.8	11.7	11.5	11.3	11.0	10.7	10.4	10.2	9.9	
150		Strength, (kN/m)	10.2	9.6	9.1	8.7	8.4	8.1	7.9	7.7	7.5	
		Stiffness, G', (10 ³ N/mm)	12.0	11.9	11.7	11.5	11.3	11.0	10.7	10.5	10.2	
914/9		900	Strength, (kN/m)	10.8	9.8	8.8	8.1	7.4	6.9	6.4	6.0	5.6
			Stiffness, G', (10 ³ N/mm)	13.6	13.7	13.6	13.4	13.2	13.0	12.7	12.4	12.1
	600	Strength, (kN/m)	11.2	10.2	9.2	8.5	7.8	7.2	6.8	6.4	6.0	
		Stiffness, G', (10 ³ N/mm)	13.6	13.7	13.6	13.5	13.3	13.0	12.7	12.5	12.2	
	300	Strength, (kN/m)	12.1	11.1	10.3	9.6	9.0	8.4	7.9	7.5	7.2	
		Stiffness, G', (10 ³ N/mm)	13.7	13.8	13.7	13.6	13.4	13.2	12.9	12.6	12.4	
	230	Strength, (kN/m)	12.6	11.7	10.9	10.3	9.7	9.1	8.6	8.2	7.9	
		Stiffness, G', (10 ³ N/mm)	13.7	13.8	13.8	13.7	13.5	13.3	13.0	12.7	12.5	
	150	Strength, (kN/m)	13.8	12.9	12.2	11.6	11.1	10.6	10.2	9.8	9.5	
		Stiffness, G', (10 ³ N/mm)	13.8	13.9	13.9	13.8	13.7	13.5	13.2	13.0	12.7	

38 mm deck - 914 mm wide - 152 mm flute spacing

Thickness = 1.21 mm

Support connection: Hilti X-EDN19, X-EDNK22

Limit States Design – FACTORED RESISTANCE

Side-lap connection: Button Punch

$\phi = 0.50$

SDI METHOD – METRIC

Support Connection Pattern	Side Lap Spacing (mm)		Span (mm)									
			1 500	1 650	1 800	1 950	2 100	2 250	2 400	2 550	2 700	
914/4	900	Strength, (kN/m)	5.4	5.0	4.7	4.4	4.2	4.0	3.8	3.6	3.5	
		Stiffness, G', (10 ³ N/mm)	5.8	5.9	5.9	6.0	6.0	5.9	5.9	5.8	5.7	
	600	Strength, (kN/m)	6.1	5.7	5.4	5.1	4.9	4.7	4.5	4.3	4.2	
		Stiffness, G', (10 ³ N/mm)	5.8	5.9	6.0	6.0	6.0	6.0	5.9	5.9	5.8	
	300	Strength, (kN/m)	7.7	7.4	7.1	6.9	6.7	6.5	6.4	6.3	6.1	
		Stiffness, G', (10 ³ N/mm)	5.9	6.0	6.1	6.1	6.2	6.2	6.1	6.1	6.0	
	230	Strength, (kN/m)	8.5	8.3	8.0	7.8	7.7	7.5	7.4	7.2	7.1	
		Stiffness, G', (10 ³ N/mm)	5.9	6.1	6.2	6.2	6.3	6.3	6.2	6.2	6.2	
	150	Strength, (kN/m)	10.2	10.0	9.8	9.7	9.5	9.4	9.3	9.2	9.1	
		Stiffness, G', (10 ³ N/mm)	6.0	6.2	6.3	6.4	6.4	6.5	6.5	6.5	6.5	
	914/7	900	Strength, (kN/m)	7.5	6.9	6.4	6.0	5.7	5.4	5.1	4.9	4.6
			Stiffness, G', (10 ³ N/mm)	15.2	14.6	14.0	13.4	12.9	12.3	11.8	11.4	11.0
600		Strength, (kN/m)	8.2	7.6	7.1	6.7	6.4	6.1	5.8	5.6	5.3	
		Stiffness, G', (10 ³ N/mm)	15.3	14.7	14.1	13.5	13.0	12.5	12.0	11.5	11.1	
300		Strength, (kN/m)	10.2	9.6	9.2	8.8	8.4	8.1	7.9	7.6	7.4	
		Stiffness, G', (10 ³ N/mm)	15.6	15.0	14.4	13.8	13.3	12.8	12.3	11.9	11.5	
230		Strength, (kN/m)	11.2	10.7	10.3	9.9	9.6	9.4	9.1	8.9	8.7	
		Stiffness, G', (10 ³ N/mm)	15.7	15.1	14.5	14.0	13.5	13.0	12.5	12.1	11.7	
150		Strength, (kN/m)	13.6	13.1	12.7	12.4	12.1	11.8	11.6	11.4	11.2	
		Stiffness, G', (10 ³ N/mm)	16.0	15.5	14.9	14.4	13.9	13.5	13.0	12.6	12.2	
914/9		900	Strength, (kN/m)	11.9	10.9	10.0	9.3	8.7	8.2	7.7	7.3	6.9
			Stiffness, G', (10 ³ N/mm)	19.1	18.5	18.0	17.4	16.8	16.2	15.7	15.2	14.7
	600	Strength, (kN/m)	12.6	11.6	10.7	10.0	9.4	8.9	8.4	8.0	7.6	
		Stiffness, G', (10 ³ N/mm)	19.1	18.6	18.0	17.5	16.9	16.3	15.8	15.3	14.8	
	300	Strength, (kN/m)	14.3	13.5	12.8	12.1	11.5	10.9	10.5	10.1	9.7	
		Stiffness, G', (10 ³ N/mm)	19.3	18.8	18.2	17.7	17.1	16.6	16.1	15.6	15.1	
	230	Strength, (kN/m)	15.3	14.5	13.8	13.2	12.7	12.2	11.7	11.3	10.9	
		Stiffness, G', (10 ³ N/mm)	19.4	18.9	18.4	17.8	17.3	16.8	16.3	15.8	15.3	
	150	Strength, (kN/m)	17.5	16.8	16.1	15.6	15.1	14.7	14.3	13.9	13.6	
		Stiffness, G', (10 ³ N/mm)	19.6	19.2	18.6	18.1	17.6	17.1	16.6	16.2	15.7	

38 mm deck - 914 mm wide - 152 mm flute spacing

Thickness = 1.52 mm

Support connection: Hilti X-EDN19, X-EDNK22

Limit States Design – FACTORED RESISTANCE

Side-lap connection: Button Punch

$\phi = 0.50$

SDI METHOD – METRIC

Support Connection Pattern	Side Lap Spacing (mm)		Span (mm)									
			1 800	1 950	2 100	2 250	2 400	2 550	2 700	2 850	3 000	
914/4	900	Strength, (kN/m)	6.1	5.8	5.5	5.2	5.0	4.8	4.7	4.5	4.4	
		Stiffness, G' , (10^3 N/mm)	8.2	8.1	8.0	7.8	7.6	7.5	7.3	7.1	7.0	
	600	Strength, (kN/m)	7.1	6.8	6.5	6.3	6.1	5.9	5.7	5.6	5.4	
		Stiffness, G' , (10^3 N/mm)	8.2	8.2	8.0	7.9	7.7	7.6	7.4	7.3	7.1	
	300	Strength, (kN/m)	9.6	9.4	9.2	9.0	8.8	8.7	8.5	8.4	8.3	
		Stiffness, G' , (10^3 N/mm)	8.4	8.4	8.3	8.2	8.0	7.9	7.8	7.6	7.5	
	230	Strength, (kN/m)	10.9	10.7	10.5	10.4	10.2	10.1	10.0	9.9	9.8	
		Stiffness, G' , (10^3 N/mm)	8.5	8.5	8.4	8.3	8.2	8.1	7.9	7.8	7.7	
	150	Strength, (kN/m)	13.4	13.3	13.1	13.0	12.9	12.8	12.7	12.6	12.6	
		Stiffness, G' , (10^3 N/mm)	8.8	8.8	8.7	8.7	8.6	8.5	8.4	8.3	8.2	
	914/7	900	Strength, (kN/m)	8.2	7.7	7.3	6.9	6.6	6.3	6.1	5.9	5.7
			Stiffness, G' , (10^3 N/mm)	16.8	16.0	15.3	14.6	13.9	13.3	12.8	12.3	11.8
600		Strength, (kN/m)	9.3	8.8	8.4	8.0	7.7	7.4	7.2	6.9	6.7	
		Stiffness, G' , (10^3 N/mm)	17.0	16.1	15.4	14.7	14.1	13.5	13.0	12.5	12.0	
300		Strength, (kN/m)	12.4	11.9	11.5	11.2	10.9	10.6	10.4	10.2	10.0	
		Stiffness, G' , (10^3 N/mm)	17.3	16.5	15.8	15.1	14.5	13.9	13.4	12.9	12.5	
230		Strength, (kN/m)	14.0	13.6	13.3	12.9	12.7	12.4	12.2	12.0	11.8	
		Stiffness, G' , (10^3 N/mm)	17.5	16.8	16.1	15.4	14.8	14.2	13.7	13.2	12.8	
150		Strength, (kN/m)	17.6	17.3	16.9	16.7	16.4	16.2	16.0	15.8	15.6	
		Stiffness, G' , (10^3 N/mm)	18.0	17.3	16.6	16.0	15.4	14.8	14.3	13.9	13.4	
914/9		900	Strength, (kN/m)	12.7	11.8	11.1	10.4	9.9	9.4	8.9	8.5	8.2
			Stiffness, G' , (10^3 N/mm)	22.1	21.2	20.3	19.5	18.8	18.1	17.4	16.8	16.2
	600	Strength, (kN/m)	13.8	12.9	12.2	11.5	11.0	10.5	10.0	9.6	9.3	
		Stiffness, G' , (10^3 N/mm)	22.2	21.3	20.4	19.7	18.9	18.2	17.6	16.9	16.4	
	300	Strength, (kN/m)	16.7	16.0	15.3	14.8	14.2	13.7	13.3	12.9	12.5	
		Stiffness, G' , (10^3 N/mm)	22.4	21.6	20.8	20.0	19.3	18.6	17.9	17.3	16.8	
	230	Strength, (kN/m)	18.3	17.6	17.0	16.5	16.0	15.6	15.2	14.8	14.5	
		Stiffness, G' , (10^3 N/mm)	22.6	21.8	21.0	20.2	19.5	18.8	18.2	17.6	17.0	
	150	Strength, (kN/m)	21.8	21.1	20.6	20.1	19.7	19.3	18.9	18.6	18.3	
		Stiffness, G' , (10^3 N/mm)	23.0	22.2	21.4	20.7	20.0	19.3	18.7	18.1	17.6	

38 mm deck - 914 mm wide - 152 mm flute spacing

Thickness = 0.76 mm

Support connection: Hilti X-EDN19, X-EDNK22

Limit States Design – FACTORED RESISTANCE

Side-lap connection: #10 Screws

$\phi = 0.50$

SDI METHOD – METRIC

Support Connection Pattern	Side Lap Spacing (mm)		Span (mm)									
			900	1 050	1 200	1 350	1 500	1 650	1 800	1 950	2 100	
914/4	900	Strength, (kN/m)	5.0	4.5	4.2	4.0	3.7	3.5	3.3	3.2	3.0	
		Stiffness, G', (10 ³ N/mm)	1.6	1.9	2.1	2.2	2.4	2.6	2.7	2.8	2.9	
	600	Strength, (kN/m)	5.5	5.1	4.8	4.6	4.4	4.2	4.1	4.0	3.8	
		Stiffness, G', (10 ³ N/mm)	1.7	1.9	2.1	2.3	2.5	2.6	2.8	2.9	3.0	
	300	Strength, (kN/m)	6.9	6.6	6.4	6.2	6.0	5.9	5.8	5.7	5.6	
		Stiffness, G', (10 ³ N/mm)	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.2	
	230	Strength, (kN/m)	7.5	7.3	7.1	7.0	6.8	6.7	6.6	6.6	6.5	
		Stiffness, G', (10 ³ N/mm)	1.7	1.9	2.2	2.4	2.6	2.8	3.0	3.2	3.3	
	150	Strength, (kN/m)	8.6	8.4	8.3	8.2	8.1	8.1	8.0	8.0	7.9	
		Stiffness, G', (10 ³ N/mm)	1.7	2.0	2.2	2.4	2.7	2.9	3.1	3.3	3.5	
	914/7	900	Strength, (kN/m)	7.3	6.6	6.0	5.4	5.0	4.7	4.4	4.2	4.0
			Stiffness, G', (10 ³ N/mm)	8.6	8.9	9.1	9.2	9.3	9.2	9.1	9.0	8.9
600		Strength, (kN/m)	8.0	7.3	6.7	6.3	5.8	5.5	5.2	5.0	4.8	
		Stiffness, G', (10 ³ N/mm)	8.7	9.1	9.4	9.5	9.6	9.6	9.6	9.5	9.4	
300		Strength, (kN/m)	9.8	9.2	8.7	8.3	8.0	7.7	7.5	7.3	7.1	
		Stiffness, G', (10 ³ N/mm)	9.0	9.5	9.9	10.2	10.4	10.5	10.6	10.7	10.7	
230		Strength, (kN/m)	10.9	10.3	9.8	9.4	9.1	8.9	8.7	8.5	8.3	
		Stiffness, G', (10 ³ N/mm)	9.1	9.7	10.2	10.5	10.8	11.0	11.1	11.3	11.3	
150		Strength, (kN/m)	12.9	12.4	12.0	11.7	11.5	11.2	11.1	10.9	10.8	
		Stiffness, G', (10 ³ N/mm)	9.4	10.1	10.7	11.1	11.5	11.8	12.1	12.3	12.5	
914/9		900	Strength, (kN/m)	11.4	10.2	9.3	8.5	7.8	7.2	6.7	6.2	5.9
			Stiffness, G', (10 ³ N/mm)	9.4	10.0	10.4	10.6	10.8	10.8	10.8	10.8	10.8
	600	Strength, (kN/m)	12.0	10.9	9.9	9.2	8.6	8.0	7.5	7.0	6.7	
		Stiffness, G', (10 ³ N/mm)	9.5	10.1	10.5	10.8	11.0	11.1	11.1	11.1	11.1	
	300	Strength, (kN/m)	13.6	12.6	11.7	11.1	10.5	10.1	9.7	9.3	9.0	
		Stiffness, G', (10 ³ N/mm)	9.6	10.3	10.8	11.2	11.5	11.7	11.9	12.0	12.0	
	230	Strength, (kN/m)	14.5	13.5	12.8	12.1	11.6	11.2	10.8	10.5	10.2	
		Stiffness, G', (10 ³ N/mm)	9.7	10.4	11.0	11.4	11.8	12.0	12.2	12.4	12.5	
	150	Strength, (kN/m)	16.2	15.4	14.8	14.3	13.8	13.5	13.1	12.9	12.6	
		Stiffness, G', (10 ³ N/mm)	9.9	10.7	11.3	11.8	12.3	12.6	12.9	13.2	13.4	

38 mm deck - 914 mm wide - 152 mm flute spacing

Thickness = 0.91 mm

Support connection: Hilti X-EDN19, X-EDNK22

Limit States Design – FACTORED RESISTANCE

Side-lap connection: #10 Screws

$\phi = 0.50$

SDI METHOD – METRIC

Support Connection Pattern	Side Lap Spacing (mm)		Span (mm)								
			1 200	1 350	1 500	1 650	1 800	1 950	2 100	2 250	2 400
914/4	900	Strength, (kN/m)	5.0	4.7	4.5	4.2	4.0	3.8	3.7	3.5	3.4
		Stiffness, G', (10 ³ N/mm)	3.1	3.3	3.5	3.7	3.8	4.0	4.1	4.2	4.3
	600	Strength, (kN/m)	5.8	5.5	5.2	5.0	4.9	4.7	4.6	4.5	4.4
		Stiffness, G', (10 ³ N/mm)	3.1	3.3	3.6	3.8	4.0	4.1	4.3	4.4	4.5
	300	Strength, (kN/m)	7.6	7.4	7.2	7.1	6.9	6.8	6.7	6.6	6.6
		Stiffness, G', (10 ³ N/mm)	3.2	3.5	3.8	4.0	4.2	4.4	4.6	4.8	5.0
	230	Strength, (kN/m)	8.5	8.3	8.2	8.0	7.9	7.8	7.8	7.7	7.6
		Stiffness, G', (10 ³ N/mm)	3.2	3.5	3.8	4.1	4.4	4.6	4.8	5.0	5.2
	150	Strength, (kN/m)	9.9	9.8	9.7	9.7	9.6	9.5	9.5	9.4	9.4
		Stiffness, G', (10 ³ N/mm)	3.3	3.6	4.0	4.3	4.5	4.8	5.1	5.3	5.6
914/7	900	Strength, (kN/m)	7.1	6.5	6.0	5.6	5.3	5.0	4.8	4.6	4.4
		Stiffness, G', (10 ³ N/mm)	11.8	11.7	11.6	11.4	11.2	11.0	10.8	10.5	10.3
	600	Strength, (kN/m)	8.0	7.5	7.0	6.6	6.3	6.0	5.8	5.5	5.4
		Stiffness, G', (10 ³ N/mm)	12.1	12.1	12.1	11.9	11.8	11.6	11.4	11.3	11.1
	300	Strength, (kN/m)	10.4	9.9	9.5	9.2	8.9	8.7	8.5	8.3	8.2
		Stiffness, G', (10 ³ N/mm)	13.0	13.1	13.2	13.3	13.3	13.2	13.2	13.1	13.0
	230	Strength, (kN/m)	11.7	11.3	10.9	10.6	10.4	10.1	9.9	9.8	9.6
		Stiffness, G', (10 ³ N/mm)	13.4	13.7	13.8	14.0	14.0	14.1	14.1	14.1	14.1
	150	Strength, (kN/m)	14.4	14.0	13.7	13.5	13.2	13.1	12.9	12.8	12.6
		Stiffness, G', (10 ³ N/mm)	14.2	14.6	15.0	15.2	15.4	15.6	15.7	15.9	15.9
914/9	900	Strength, (kN/m)	11.1	10.2	9.3	8.6	8.0	7.5	7.0	6.7	6.3
		Stiffness, G', (10 ³ N/mm)	13.7	13.8	13.8	13.7	13.6	13.4	13.2	13.0	12.8
	600	Strength, (kN/m)	11.9	11.0	10.2	9.6	9.0	8.5	8.0	7.6	7.3
		Stiffness, G', (10 ³ N/mm)	13.9	14.1	14.1	14.1	14.0	13.9	13.7	13.6	13.4
	300	Strength, (kN/m)	14.0	13.2	12.6	12.0	11.5	11.1	10.8	10.5	10.2
		Stiffness, G', (10 ³ N/mm)	14.4	14.7	14.9	15.0	15.1	15.1	15.0	15.0	14.9
	230	Strength, (kN/m)	15.2	14.5	13.9	13.4	12.9	12.5	12.2	11.9	11.6
		Stiffness, G', (10 ³ N/mm)	14.7	15.1	15.3	15.5	15.6	15.7	15.7	15.7	15.7
	150	Strength, (kN/m)	17.7	17.1	16.5	16.1	15.7	15.4	15.1	14.8	13.0
		Stiffness, G', (10 ³ N/mm)	15.3	15.8	16.2	16.5	16.7	16.9	17.0	17.2	17.2

38 mm deck - 914 mm wide - 152 mm flute spacing

Thickness = 1.21 mm

Support connection: Hilti X-EDN19, X-EDNK22

Limit States Design – FACTORED RESISTANCE

Side-lap connection: #10 Screws

$\phi = 0.50$

SDI METHOD – METRIC

Support Connection Pattern	Side Lap Spacing (mm)		Span (mm)									
			1 500	1 650	1 800	1 950	2 100	2 250	2 400	2 550	2 700	
914/4	900	Strength, (kN/m)	5.9	5.6	5.3	5.1	4.9	4.7	4.6	4.4	4.3	
		Stiffness, G', (10 ³ N/mm)	5.9	6.1	6.3	6.4	6.5	6.5	6.5	6.6	6.6	
	600	Strength, (kN/m)	6.9	6.7	6.4	6.3	6.1	5.9	5.8	5.7	5.6	
		Stiffness, G', (10 ³ N/mm)	6.2	6.4	6.6	6.7	6.9	7.0	7.0	7.1	7.2	
	300	Strength, (kN/m)	9.5	9.4	9.2	9.0	8.9	8.8	8.7	8.6	8.5	
		Stiffness, G', (10 ³ N/mm)	6.6	7.0	7.3	7.5	7.8	8.0	8.2	8.4	8.5	
	230	Strength, (kN/m)	10.8	10.6	10.5	10.4	10.3	10.2	10.1	10.0	10.0	
		Stiffness, G', (10 ³ N/mm)	6.8	7.2	7.6	7.9	8.2	8.4	8.7	8.9	9.1	
	150	Strength, (kN/m)	12.9	12.8	12.7	12.6	12.5	12.5	12.4	12.4	12.3	
		Stiffness, G', (10 ³ N/mm)	7.2	7.7	8.1	8.5	8.8	9.2	9.5	9.8	10.1	
	914/7	900	Strength, (kN/m)	8.0	7.5	7.1	6.7	6.4	6.1	5.9	5.6	5.5
			Stiffness, G', (10 ³ N/mm)	15.8	15.3	14.8	14.4	13.9	13.5	13.2	12.8	12.5
600		Strength, (kN/m)	9.3	8.8	8.4	8.0	7.7	7.4	7.2	6.9	6.8	
		Stiffness, G', (10 ³ N/mm)	16.5	16.1	15.7	15.3	14.9	14.6	14.2	13.9	13.6	
300		Strength, (kN/m)	12.6	12.2	11.8	11.5	11.2	11.0	10.8	10.6	10.5	
		Stiffness, G', (10 ³ N/mm)	18.5	18.3	18.0	17.8	17.6	17.3	17.1	16.9	16.7	
230		Strength, (kN/m)	14.4	14.1	13.7	13.4	13.2	13.0	12.8	12.6	12.4	
		Stiffness, G', (10 ³ N/mm)	19.5	19.4	19.2	19.1	18.9	18.8	18.6	18.5	18.3	
150		Strength, (kN/m)	18.2	17.8	17.5	17.3	17.1	16.9	16.8	16.6	15.9	
		Stiffness, G', (10 ³ N/mm)	21.5	21.6	21.6	21.6	21.6	21.6	21.5	21.5	21.5	
914/9		900	Strength, (kN/m)	12.4	11.4	10.6	10.0	9.4	8.9	8.5	8.1	7.7
			Stiffness, G', (10 ³ N/mm)	19.5	19.0	18.6	18.1	17.6	17.2	16.8	16.3	15.9
	600	Strength, (kN/m)	13.5	12.7	11.9	11.3	10.7	10.2	9.8	9.4	9.0	
		Stiffness, G', (10 ³ N/mm)	20.0	19.6	19.2	18.8	18.4	18.0	17.6	17.2	16.9	
	300	Strength, (kN/m)	16.6	15.9	15.3	14.7	14.3	13.9	13.5	13.2	12.9	
		Stiffness, G', (10 ³ N/mm)	21.4	21.2	21.0	20.7	20.5	20.2	19.9	19.7	19.4	
	230	Strength, (kN/m)	18.4	17.7	17.1	16.6	16.1	15.8	15.4	15.1	14.8	
		Stiffness, G', (10 ³ N/mm)	22.2	22.1	21.9	21.8	21.6	21.4	21.2	21.0	20.8	
	150	Strength, (kN/m)	21.9	21.3	20.8	20.4	20.0	19.7	19.4	17.8	15.9	
		Stiffness, G', (10 ³ N/mm)	23.7	23.8	23.8	23.8	23.8	23.7	23.6	23.5	23.5	

38 mm deck - 914 mm wide - 152 mm flute spacing

Thickness = 1.52 mm

Support connection: Hilti X-EDN19, X-EDNK22

Limit States Design – FACTORED RESISTANCE

Side-lap connection: #10 Screws

$\phi = 0.50$

SDI METHOD – METRIC

Support Connection Pattern	Side Lap Spacing (mm)		Span (mm)								
			1 800	1 950	2 100	2 250	2 400	2 550	2 700	2 850	3 000
914/4	900	Strength, (kN/m)	6.6	6.3	6.1	5.9	5.7	5.5	5.4	5.2	5.1
		Stiffness, G', (10 ³ N/mm)	8.7	8.8	8.8	8.7	8.7	8.6	8.6	8.5	8.4
	600	Strength, (kN/m)	8.0	7.8	7.6	7.4	7.2	7.1	7.0	6.8	6.7
		Stiffness, G', (10 ³ N/mm)	9.3	9.4	9.4	9.5	9.5	9.5	9.5	9.5	9.4
	300	Strength, (kN/m)	11.4	11.2	11.1	10.9	10.8	10.7	10.6	10.5	10.4
		Stiffness, G', (10 ³ N/mm)	10.5	10.8	11.0	11.2	11.4	11.5	11.6	11.8	11.8
	230	Strength, (kN/m)	13.0	12.9	12.8	12.6	12.5	12.5	12.4	12.3	12.2
		Stiffness, G', (10 ³ N/mm)	11.1	11.5	11.8	12.0	12.3	12.5	12.7	12.8	13.0
	150	Strength, (kN/m)	15.7	15.6	15.6	15.5	15.4	15.4	15.3	15.3	15.2
		Stiffness, G', (10 ³ N/mm)	12.1	12.6	13.0	13.4	13.8	14.1	14.4	14.7	15.0
914/7	900	Strength, (kN/m)	8.8	8.3	7.9	7.6	7.3	7.0	6.8	6.6	6.4
		Stiffness, G', (10 ³ N/mm)	17.9	17.3	16.7	16.1	15.6	15.1	14.6	14.2	13.8
	600	Strength, (kN/m)	10.4	9.9	9.5	9.2	8.9	8.7	8.4	8.2	8.0
		Stiffness, G', (10 ³ N/mm)	19.1	18.5	17.9	17.4	16.9	16.5	16.1	15.7	15.4
	300	Strength, (kN/m)	14.7	14.3	14.0	13.7	13.4	13.2	13.0	12.8	12.7
		Stiffness, G', (10 ³ N/mm)	22.2	21.8	21.3	21.0	20.6	20.3	20.0	19.7	19.4
	230	Strength, (kN/m)	17.0	16.7	16.4	16.1	15.9	15.7	15.5	15.3	15.2
		Stiffness, G', (10 ³ N/mm)	23.9	23.5	23.2	22.9	22.6	22.3	22.0	21.8	21.6
	150	Strength, (kN/m)	21.8	21.5	21.3	21.0	20.8	20.7	20.5	19.9	18.0
		Stiffness, G', (10 ³ N/mm)	27.2	27.0	26.8	26.6	26.5	26.3	26.2	26.0	25.9
914/9	900	Strength, (kN/m)	13.2	12.4	11.7	11.1	10.6	10.1	9.7	9.3	8.9
		Stiffness, G', (10 ³ N/mm)	22.9	22.2	21.5	20.8	20.1	19.5	19.0	18.5	18.0
	600	Strength, (kN/m)	14.9	14.0	13.3	12.7	12.2	11.7	11.3	10.9	10.6
		Stiffness, G', (10 ³ N/mm)	23.8	23.1	22.5	21.9	21.3	20.7	20.2	19.7	19.3
	300	Strength, (kN/m)	18.9	18.3	17.7	17.2	16.7	16.3	16.0	15.7	15.4
		Stiffness, G', (10 ³ N/mm)	26.3	25.8	25.3	24.8	24.3	23.9	23.5	23.1	22.8
	230	Strength, (kN/m)	21.2	20.6	20.0	19.6	19.1	18.8	18.4	18.1	17.9
		Stiffness, G', (10 ³ N/mm)	27.6	27.2	26.8	26.4	26.0	25.6	25.3	25.0	24.7
	150	Strength, (kN/m)	25.8	25.3	24.8	24.4	24.1	23.8	22.2	19.9	18.0
		Stiffness, G', (10 ³ N/mm)	30.3	30.0	29.8	29.6	29.3	29.1	28.9	28.7	28.5

76 mm deck - 610 mm wide - 152 mm flute spacing

Thickness = 0.76 mm

Support connection: Hilti X-EDN19, X-EDNK22

Limit States Design – FACTORED RESISTANCE

Side-lap connection: Button Punch

$\phi = 0.50$

SDI METHOD – METRIC

Support Connection Pattern	Side Lap Spacing (mm)		Span (mm)									
			2 400	2 550	2 700	2 850	3 000	3 150	3 300	3 450	3 600	
610/3	900	Strength, (kN/m)	1.9	1.8	1.8	1.7	1.6	1.6	1.5	1.5	1.5	
		Stiffness, G', (10 ³ N/mm)	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	
	600	Strength, (kN/m)	2.2	2.1	2.0	2.0	1.9	1.9	1.8	1.8	1.7	
		Stiffness, G', (10 ³ N/mm)	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	
	300	Strength, (kN/m)	3.0	2.9	2.8	2.8	2.7	2.7	2.6	2.6	2.5	
		Stiffness, G', (10 ³ N/mm)	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.7	
	230	Strength, (kN/m)	3.5	3.4	3.3	3.3	3.2	3.2	3.1	3.1	3.0	
		Stiffness, G', (10 ³ N/mm)	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
	150	Strength, (kN/m)	4.5	4.4	4.3	4.3	4.2	4.2	4.1	4.1	4.0	
		Stiffness, G', (10 ³ N/mm)	1.6	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.9	
	610/5	900	Strength, (kN/m)	2.4	2.3	2.2	2.1	2.0	2.0	1.9	1.8	1.8
			Stiffness, G', (10 ³ N/mm)	4.7	4.5	4.4	4.2	4.1	3.9	3.8	3.7	3.6
600		Strength, (kN/m)	2.7	2.6	2.5	2.4	2.3	2.2	2.2	2.1	2.0	
		Stiffness, G', (10 ³ N/mm)	4.8	4.6	4.4	4.3	4.1	4.0	3.9	3.8	3.6	
300		Strength, (kN/m)	3.5	3.4	3.3	3.2	3.1	3.0	3.0	2.9	2.9	
		Stiffness, G', (10 ³ N/mm)	5.0	4.8	4.6	4.5	4.4	4.2	4.1	4.0	3.9	
230		Strength, (kN/m)	4.0	3.9	3.8	3.7	3.6	3.5	3.5	3.4	3.3	
		Stiffness, G', (10 ³ N/mm)	5.1	4.9	4.8	4.6	4.5	4.4	4.2	4.1	4.0	
150		Strength, (kN/m)	5.1	5.0	4.9	4.8	4.7	4.6	4.6	4.5	4.5	
		Stiffness, G', (10 ³ N/mm)	5.3	5.2	5.0	4.9	4.8	4.6	4.5	4.4	4.3	
610/7		900	Strength, (kN/m)	4.0	3.8	3.6	3.4	3.3	3.2	3.0	2.9	2.8
			Stiffness, G', (10 ³ N/mm)	6.7	6.5	6.3	6.1	5.9	5.8	5.6	5.4	5.3
	600	Strength, (kN/m)	4.3	4.0	3.9	3.7	3.6	3.4	3.3	3.2	3.1	
		Stiffness, G', (10 ³ kN/mm)	6.7	6.5	6.3	6.1	6.0	5.8	5.7	5.5	5.4	
	300	Strength, (kN/m)	5.1	4.9	4.7	4.5	4.4	4.2	4.1	4.0	3.9	
		Stiffness, G', (10 ³ N/mm)	6.8	6.7	6.5	6.3	6.1	6.0	5.8	5.7	5.5	
	230	Strength, (kN/m)	5.6	5.3	5.2	5.0	4.9	4.7	4.6	4.5	4.4	
		Stiffness, G', (10 ³ N/mm)	6.9	6.7	6.6	6.4	6.2	6.1	5.9	5.8	5.7	
	150	Strength, (kN/m)	6.7	6.5	6.3	6.1	6.0	5.9	5.7	5.6	5.5	
		Stiffness, G', (10 ³ N/mm)	7.1	6.9	6.8	6.6	6.5	6.3	6.2	6.0	5.9	

76 mm deck - 610 mm wide - 152 mm flute spacing

Thickness = 0.91 mm

Support connection: Hilti X-EDN19, X-EDNK22

Limit States Design – FACTORED RESISTANCE

Side-lap connection: Button Punch

$\phi = 0.50$

SDI METHOD – METRIC

Support Connection Pattern	Side Lap Spacing (mm)		Span (mm)									
			2 700	2 850	3 000	3 150	3 300	3 450	3 600	3 750	3 900	
610/3	900	Strength, (kN/m)	2.2	2.1	2.1	2.0	1.9	1.9	1.8	1.8	1.8	
		Stiffness, G' , (10^3 N/mm)	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	
	600	Strength, (kN/m)	2.6	2.5	2.4	2.4	2.3	2.3	2.2	2.2	2.2	
		Stiffness, G' , (10^3 N/mm)	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	
	300	Strength, (kN/m)	3.8	3.7	3.6	3.5	3.5	3.4	3.4	3.4	3.3	
		Stiffness, G' , (10^3 N/mm)	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	
	230	Strength, (kN/m)	4.5	4.4	4.3	4.3	4.2	4.2	4.1	4.1	4.0	
		Stiffness, G' , (10^3 N/mm)	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
	150	Strength, (kN/m)	5.7	5.7	5.6	5.6	5.5	5.5	5.4	5.4	5.3	
		Stiffness, G' , (10^3 N/mm)	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	
	610/5	900	Strength, (kN/m)	2.7	2.6	2.5	2.4	2.3	2.3	2.2	2.2	2.1
			Stiffness, G' , (10^3 N/mm)	5.0	4.8	4.6	4.4	4.3	4.1	4.0	3.9	3.8
600		Strength, (kN/m)	3.1	3.0	2.9	2.8	2.7	2.7	2.6	2.5	2.5	
		Stiffness, G' , (10^3 N/mm)	5.1	4.9	4.7	4.5	4.4	4.2	4.1	4.0	3.9	
300		Strength, (kN/m)	4.2	4.1	4.1	4.0	3.9	3.8	3.8	3.7	3.7	
		Stiffness, G' , (10^3 N/mm)	5.3	5.1	4.9	4.8	4.6	4.5	4.4	4.3	4.1	
230		Strength, (kN/m)	5.0	4.9	4.8	4.7	4.6	4.5	4.5	4.4	4.4	
		Stiffness, G' , (10^3 N/mm)	5.4	5.3	5.1	4.9	4.8	4.7	4.5	4.4	4.3	
150		Strength, (kN/m)	6.6	6.5	6.4	6.3	6.2	6.2	6.1	6.0	6.0	
		Stiffness, G' , (10^3 N/mm)	5.8	5.6	5.4	5.3	5.1	5.0	4.9	4.8	4.7	
610/7		900	Strength, (kN/m)	4.4	4.2	4.0	3.9	3.7	3.6	3.5	3.4	3.3
			Stiffness, G' , (10^3 N/mm)	7.3	7.0	6.8	6.6	6.4	6.2	6.0	5.9	5.7
	600	Strength, (kN/m)	4.8	4.6	4.4	4.3	4.1	4.0	3.9	3.8	3.7	
		Stiffness, G' , (10^3 N/mm)	7.3	7.1	6.9	6.7	6.5	6.3	6.1	5.9	5.8	
	300	Strength, (kN/m)	5.9	5.7	5.6	5.4	5.3	5.1	5.0	4.9	4.8	
		Stiffness, G' , (10^3 N/mm)	7.5	7.3	7.1	6.9	6.7	6.5	6.3	6.2	6.0	
	230	Strength, (kN/m)	6.6	6.5	6.3	6.1	6.0	5.9	5.7	5.6	5.5	
		Stiffness, G' , (10^3 N/mm)	7.6	7.4	7.2	7.0	6.8	6.6	6.5	6.3	6.2	
	150	Strength, (kN/m)	8.3	8.1	7.9	7.7	7.6	7.5	7.4	7.3	7.2	
		Stiffness, G' , (10^3 N/mm)	7.9	7.7	7.5	7.3	7.1	6.9	6.8	6.6	6.5	

76 mm deck - 610 mm wide - 152 mm flute spacing

Thickness = 1.21 mm

Support connection: Hilti X-EDN19, X-EDNK22

Limit States Design – FACTORED RESISTANCE

Side-lap connection: Button Punch

$\phi = 0.50$

SDI METHOD – METRIC

Support Connection Pattern	Side Lap Spacing (mm)		Span (mm)								
			3 000	3 150	3 300	3 450	3 600	3 750	3 900	4 050	4 200
610/3	900	Strength, (kN/m)	3.0	2.9	2.8	2.8	2.7	2.6	2.6	2.6	2.5
		Stiffness, G', (10 ³ N/mm)	2.9	2.8	2.8	2.7	2.7	2.6	2.6	2.5	2.5
	600	Strength, (kN/m)	3.7	3.6	3.5	3.4	3.4	3.3	3.3	3.2	3.2
		Stiffness, G', (10 ³ N/mm)	3.0	2.9	2.9	2.8	2.8	2.7	2.7	2.6	2.6
	300	Strength, (kN/m)	5.7	5.6	5.6	5.5	5.5	5.4	5.4	5.3	5.3
		Stiffness, G', (10 ³ N/mm)	3.1	3.1	3.1	3.0	3.0	2.9	2.9	2.9	2.8
	230	Strength, (kN/m)	6.8	6.7	6.6	6.6	6.5	6.4	6.4	6.4	6.3
		Stiffness, G', (10 ³ N/mm)	3.2	3.2	3.2	3.1	3.1	3.1	3.0	3.0	3.0
	150	Strength, (kN/m)	8.8	8.7	8.7	8.6	8.6	8.5	8.5	8.5	8.4
		Stiffness, G', (10 ³ N/mm)	3.5	3.4	3.4	3.4	3.4	3.4	3.3	3.3	3.3
610/5	900	Strength, (kN/m)	3.5	3.4	3.4	3.3	3.2	3.1	3.0	3.0	2.9
		Stiffness, G', (10 ³ N/mm)	5.5	5.3	5.1	5.0	4.8	4.6	4.5	4.3	4.2
	600	Strength, (kN/m)	4.2	4.1	4.0	4.0	3.9	3.8	3.7	3.7	3.6
		Stiffness, G', (10 ³ N/mm)	5.6	5.4	5.2	5.1	4.9	4.7	4.6	4.5	4.3
	300	Strength, (kN/m)	6.3	6.2	6.1	6.0	5.9	5.9	5.8	5.7	5.7
		Stiffness, G', (10 ³ N/mm)	6.0	5.8	5.6	5.4	5.2	5.1	4.9	4.8	4.7
	230	Strength, (kN/m)	7.6	7.5	7.4	7.3	7.2	7.1	7.1	7.0	6.9
		Stiffness, G', (10 ³ N/mm)	6.1	5.9	5.8	5.6	5.4	5.3	5.1	5.0	4.9
	150	Strength, (kN/m)	10.3	10.2	10.1	10.0	9.9	9.9	9.8	9.7	9.7
		Stiffness, G', (10 ³ N/mm)	6.6	6.4	6.2	6.0	5.9	5.7	5.6	5.5	5.3
610/7	900	Strength, (kN/m)	5.5	5.3	5.2	5.0	4.9	4.7	4.6	4.5	4.4
		Stiffness, G', (10 ³ N/mm)	8.4	8.1	7.8	7.5	7.3	7.1	6.9	6.7	6.5
	600	Strength, (kN/m)	6.2	6.0	5.9	5.7	5.5	5.4	5.3	5.2	5.0
		Stiffness, G', (10 ³ N/mm)	8.4	8.2	7.9	7.6	7.4	7.2	7.0	6.8	6.6
	300	Strength, (kN/m)	8.3	8.1	7.9	7.8	7.6	7.5	7.3	7.2	7.1
		Stiffness, G', (10 ³ N/mm)	8.7	8.4	8.2	7.9	7.7	7.5	7.3	7.1	6.9
	230	Strength, (kN/m)	9.6	9.4	9.2	9.0	8.9	8.7	8.6	8.5	8.4
		Stiffness, G', (10 ³ N/mm)	8.9	8.6	8.3	8.1	7.9	7.6	7.4	7.3	7.1
	150	Strength, (kN/m)	12.4	12.2	12.1	11.9	11.7	11.6	11.5	11.4	11.3
		Stiffness, G', (10 ³ N/mm)	9.2	9.0	8.7	8.5	8.2	8.0	7.8	7.7	7.5

76 mm deck - 610 mm wide - 152 mm flute spacing

Thickness = 1.52 mm

Support connection: Hilti X-EDN19, X-EDNK22

Limit States Design – FACTORED RESISTANCE

Side-lap connection: Button Punch

$\phi = 0.50$

SDI METHOD – METRIC

Support Connection Pattern	Side Lap Spacing (mm)		Span (mm)								
			3 000	3 450	3 600	3 750	3 900	4 050	4 200	4 350	4 500
610/3	900	Strength, (kN/m)	3.8	3.7	3.7	3.6	3.6	3.5	3.5	3.4	3.4
		Stiffness, G' , (10^3 N/mm)	3.4	3.4	3.3	3.2	3.1	3.1	3.0	2.9	2.9
	600	Strength, (kN/m)	4.9	4.8	4.7	4.7	4.6	4.6	4.5	4.5	4.4
		Stiffness, G' , (10^3 N/mm)	3.5	3.5	3.4	3.3	3.2	3.2	3.1	3.0	3.0
	300	Strength, (kN/m)	7.9	7.8	7.8	7.7	7.7	7.6	7.6	7.5	7.5
		Stiffness, G' , (10^3 N/mm)	3.8	3.7	3.7	3.6	3.5	3.5	3.4	3.4	3.3
	230	Strength, (kN/m)	9.4	9.3	9.3	9.2	9.2	9.1	9.1	9.0	9.0
		Stiffness, G' , (10^3 N/mm)	4.0	3.9	3.9	3.8	3.7	3.7	3.6	3.6	3.5
	150	Strength, (kN/m)	12.3	12.2	12.2	12.1	12.1	12.1	12.0	12.0	12.0
		Stiffness, G' , (10^3 N/mm)	4.3	4.3	4.2	4.2	4.1	4.1	4.0	4.0	3.9
610/5	900	Strength, (kN/m)	4.5	4.4	4.3	4.2	4.1	4.0	4.0	3.9	3.8
		Stiffness, G' , (10^3 N/mm)	5.9	5.6	5.4	5.3	5.1	4.9	4.8	4.6	4.5
	600	Strength, (kN/m)	5.5	5.4	5.4	5.3	5.2	5.1	5.0	5.0	4.9
		Stiffness, G' , (10^3 N/mm)	6.0	5.8	5.6	5.4	5.2	5.1	4.9	4.8	4.6
	300	Strength, (kN/m)	8.8	8.7	8.6	8.5	8.4	8.3	8.3	8.2	8.2
		Stiffness, G' , (10^3 N/mm)	6.4	6.2	6.0	5.8	5.6	5.5	5.3	5.2	5.1
	230	Strength, (kN/m)	10.7	10.6	10.6	10.5	10.4	10.3	10.2	10.2	10.1
		Stiffness, G' , (10^3 N/mm)	6.6	6.4	6.2	6.0	5.9	5.7	5.6	5.4	5.3
	150	Strength, (kN/m)	14.7	14.6	14.5	14.4	14.3	14.3	14.2	14.1	14.1
		Stiffness, G' , (10^3 N/mm)	7.1	6.9	6.7	6.5	6.4	6.2	6.1	6.0	5.8
610/7	900	Strength, (kN/m)	6.7	6.5	6.3	6.2	6.0	5.9	5.7	5.6	5.5
		Stiffness, G' , (10^3 N/mm)	9.0	8.7	8.4	8.1	7.9	7.6	7.4	7.2	7.0
	600	Strength, (kN/m)	7.8	7.6	7.4	7.2	7.1	6.9	6.8	6.7	6.6
		Stiffness, G' , (10^3 N/mm)	9.1	8.8	8.5	8.2	8.0	7.8	7.5	7.3	7.1
	300	Strength, (kN/m)	11.0	10.8	10.6	10.5	10.3	10.2	10.0	9.9	9.8
		Stiffness, G' , (10^3 N/mm)	9.4	9.1	8.8	8.6	8.3	8.1	7.9	7.7	7.5
	230	Strength, (kN/m)	13.0	12.8	12.6	12.4	12.3	12.1	12.0	11.9	11.8
		Stiffness, G' , (10^3 N/mm)	9.6	9.3	9.1	8.8	8.6	8.3	8.1	7.9	7.7
	150	Strength, (kN/m)	17.3	17.1	16.9	16.7	16.6	16.4	16.3	16.2	16.1
		Stiffness, G' , (10^3 N/mm)	10.1	9.8	9.5	9.3	9.0	8.8	8.6	8.4	8.2

76 mm deck - 610 mm wide - 152 mm flute spacing

Thickness = 0.76 mm

Support connection: Hilti X-EDN19, X-EDNK22

Limit States Design – FACTORED RESISTANCE

Side-lap connection: #10 Screws

$\phi = 0.50$

SDI METHOD – METRIC

Support Connection Pattern	Side Lap Spacing (mm)		Span (mm)								
			2 400	2 550	2 700	2 850	3 000	3 150	3 300	3 450	3 600
610/3	900	Strength, (kN/m)	2.6	2.5	2.5	2.4	2.4	2.4	2.3	2.3	2.3
		Stiffness, G', (10 ³ N/mm)	1.3	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.6
	600	Strength, (kN/m)	3.4	3.4	3.3	3.3	3.2	3.2	3.1	3.1	3.1
		Stiffness, G', (10 ³ N/mm)	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.6	1.7
	300	Strength, (kN/m)	5.4	5.3	5.3	5.2	5.2	5.1	5.1	5.1	5.1
		Stiffness, G', (10 ³ N/mm)	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.8	1.9
	230	Strength, (kN/m)	6.3	6.2	6.2	6.1	6.1	6.1	6.1	6.0	6.0
		Stiffness, G', (10 ³ N/mm)	1.4	1.5	1.6	1.6	1.7	1.8	1.8	1.9	2.0
	150	Strength, (kN/m)	7.8	7.8	7.7	7.7	7.7	7.7	7.7	7.6	7.6
		Stiffness, G', (10 ³ N/mm)	1.5	1.6	1.6	1.7	1.8	1.9	1.9	2.0	2.1
610/5	900	Strength, (kN/m)	3.1	3.0	2.9	2.8	2.8	2.7	2.7	2.6	2.6
		Stiffness, G', (10 ³ N/mm)	4.3	4.3	4.2	4.2	4.2	4.1	4.1	4.0	4.0
	600	Strength, (kN/m)	3.9	3.8	3.7	3.7	3.6	3.5	3.5	3.4	3.4
		Stiffness, G', (10 ³ N/mm)	4.6	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.5
	300	Strength, (kN/m)	6.3	6.2	6.1	6.1	6.0	5.9	5.9	5.8	5.8
		Stiffness, G', (10 ³ N/mm)	5.4	5.5	5.5	5.6	5.6	5.7	5.7	5.7	5.7
	230	Strength, (kN/m)	7.6	7.5	7.4	7.4	7.3	7.2	7.2	7.1	7.1
		Stiffness, G', (10 ³ N/mm)	5.8	5.9	6.0	6.0	6.1	6.2	6.2	6.3	6.3
	150	Strength, (kN/m)	10.2	10.1	10.0	10.0	9.9	9.9	9.8	9.8	9.8
		Stiffness, G', (10 ³ N/mm)	6.5	6.6	6.7	6.9	7.0	7.1	7.2	7.3	7.3
610/7	900	Strength, (kN/m)	4.7	4.5	4.3	4.2	4.1	3.9	3.8	3.7	3.6
		Stiffness, G', (10 ³ N/mm)	5.3	5.3	5.3	5.3	5.3	5.2	5.2	5.2	5.1
	600	Strength, (kN/m)	5.5	5.3	5.1	5.0	4.9	4.7	4.6	4.5	4.5
		Stiffness, G', (10 ³ N/mm)	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.5
	300	Strength, (kN/m)	7.9	7.7	7.6	7.4	7.3	7.2	7.1	7.0	6.9
		Stiffness, G', (10 ³ N/mm)	6.1	6.2	6.3	6.3	6.4	6.4	6.4	6.5	6.5
	230	Strength, (kN/m)	9.4	9.2	9.0	8.9	8.7	8.6	8.5	8.4	8.3
		Stiffness, G', (10 ³ N/mm)	6.4	6.5	6.6	6.7	6.7	6.8	6.9	6.9	6.9
	150	Strength, (kN/m)	12.0	11.8	11.7	11.6	11.5	11.4	11.3	11.2	11.1
		Stiffness, G', (10 ³ N/mm)	6.9	7.0	7.2	7.3	7.4	7.5	7.6	7.7	7.8

76 mm deck - 610 mm wide - 152 mm flute spacing

Thickness = 0.91 mm

Support connection: Hilti X-EDN19, X-EDNK22

Limit States Design – FACTORED RESISTANCE

Side-lap connection: #10 Screws

$\phi = 0.50$

SDI METHOD – METRIC

Support Connection Pattern	Side Lap Spacing (mm)		Span (mm)									
			2 700	2 850	3 000	3 150	3 300	3 450	3 600	3 750	3 900	
610/3	900	Strength, (kN/m)	3.0	2.9	2.9	2.8	2.8	2.8	2.7	2.7	2.7	
		Stiffness, G', (10 ³ N/mm)	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.1	2.1	
	600	Strength, (kN/m)	4.0	3.9	3.8	3.8	3.8	3.7	3.7	3.7	3.6	
		Stiffness, G', (10 ³ N/mm)	2.0	2.1	2.1	2.2	2.2	2.3	2.3	2.3	2.4	
	300	Strength, (kN/m)	6.3	6.2	6.2	6.2	6.1	6.1	6.1	6.0	6.0	
		Stiffness, G', (10 ³ N/mm)	2.2	2.3	2.4	2.5	2.5	2.6	2.7	2.7	2.8	
	230	Strength, (kN/m)	7.4	7.4	7.3	7.3	7.3	7.2	7.2	7.2	7.2	
		Stiffness, G', (10 ³ N/mm)	2.3	2.4	2.5	2.6	2.7	2.7	2.8	2.9	3.0	
	150	Strength, (kN/m)	9.3	9.2	9.2	9.2	9.2	9.1	9.1	9.1	9.1	
		Stiffness, G', (10 ³ N/mm)	2.4	2.5	2.7	2.8	2.8	2.9	3.0	3.1	3.2	
	610/5	900	Strength, (kN/m)	3.5	3.4	3.3	3.3	3.2	3.1	3.1	3.0	3.0
			Stiffness, G', (10 ³ N/mm)	5.1	5.0	5.0	4.9	4.8	4.8	4.7	4.6	4.6
600		Strength, (kN/m)	4.4	4.4	4.3	4.2	4.2	4.1	4.1	4.0	4.0	
		Stiffness, G', (10 ³ N/mm)	5.6	5.6	5.5	5.5	5.4	5.4	5.3	5.3	5.3	
300		Strength, (kN/m)	7.4	7.3	7.2	7.1	7.1	7.0	6.9	6.9	6.9	
		Stiffness, G', (10 ³ N/mm)	6.9	6.9	6.9	6.9	7.0	7.0	7.0	7.0	7.0	
230		Strength, (kN/m)	8.9	8.8	8.7	8.7	8.6	8.5	8.5	8.5	8.4	
		Stiffness, G', (10 ³ N/mm)	7.5	7.6	7.6	7.7	7.7	7.7	7.7	7.8	7.8	
150		Strength, (kN/m)	12.0	11.9	11.9	11.8	11.8	11.7	11.7	11.6	11.6	
		Stiffness, G', (10 ³ N/mm)	8.7	8.8	8.9	9.0	9.0	9.1	9.2	9.3	9.3	
610/7		900	Strength, (kN/m)	5.2	5.0	4.8	4.7	4.6	4.5	4.4	4.3	4.2
			Stiffness, G', (10 ³ N/mm)	6.6	6.5	6.5	6.4	6.3	6.2	6.2	6.1	6.0
	600	Strength, (kN/m)	6.1	6.0	5.8	5.7	5.5	5.4	5.3	5.2	5.1	
		Stiffness, G', (10 ³ N/mm)	7.0	6.9	6.9	6.8	6.8	6.7	6.7	6.6	6.6	
	300	Strength, (kN/m)	9.0	8.9	8.7	8.6	8.5	8.3	8.2	8.1	8.1	
		Stiffness, G', (10 ³ N/mm)	7.9	8.0	8.0	8.0	8.0	8.0	8.0	8.0	7.9	
	230	Strength, (kN/m)	10.8	10.6	10.5	10.3	10.2	10.1	10.0	9.9	9.8	
		Stiffness, G', (10 ³ N/mm)	8.4	8.5	8.5	8.6	8.6	8.6	8.6	8.6	8.7	
	150	Strength, (kN/m)	14.0	13.9	13.7	13.6	13.5	13.4	13.3	13.2	13.1	
		Stiffness, G', (10 ³ N/mm)	9.3	9.4	9.5	9.6	9.7	9.8	9.8	9.9	10.0	

76 mm deck - 610 mm wide - 152 mm flute spacing

Thickness = 1.21 mm

Support connection: Hilti X-EDN19, X-EDNK22

Limit States Design – FACTORED RESISTANCE

Side-lap connection: #10 Screws

$\phi = 0.50$

SDI METHOD – METRIC

Support Connection Pattern	Side Lap Spacing (mm)		Span (mm)								
			3 000	3 150	3 300	3 450	3 600	3 750	3 900	4 050	4 200
610/3	900	Strength, (kN/m)	3.8	3.8	3.7	3.7	3.6	3.6	3.5	3.5	3.5
		Stiffness, G', (10 ³ N/mm)	3.1	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.2
	600	Strength, (kN/m)	5.1	5.0	5.0	4.9	4.9	4.9	4.8	4.8	4.8
		Stiffness, G', (10 ³ N/mm)	3.4	3.4	3.5	3.5	3.6	3.6	3.6	3.7	3.7
	300	Strength, (kN/m)	8.2	8.2	8.1	8.1	8.0	8.0	8.0	7.9	7.9
		Stiffness, G', (10 ³ N/mm)	4.1	4.1	4.2	4.3	4.4	4.5	4.6	4.6	4.7
	230	Strength, (kN/m)	9.7	9.7	9.6	9.6	9.6	9.5	9.5	9.5	9.4
		Stiffness, G', (10 ³ N/mm)	4.3	4.4	4.5	4.7	4.8	4.9	4.9	5.0	5.1
	150	Strength, (kN/m)	12.2	12.2	12.1	12.1	12.1	12.1	12.1	12.0	12.0
		Stiffness, G', (10 ³ N/mm)	4.7	4.9	5.0	5.2	5.3	5.4	5.5	5.7	5.8
610/5	900	Strength, (kN/m)	4.4	4.3	4.2	4.2	4.1	4.0	4.0	3.9	3.9
		Stiffness, G', (10 ³ N/mm)	6.3	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5
	600	Strength, (kN/m)	5.7	5.6	5.5	5.5	5.4	5.3	5.3	5.2	5.2
		Stiffness, G', (10 ³ N/mm)	7.1	7.1	7.0	6.9	6.8	6.7	6.6	6.6	6.5
	300	Strength, (kN/m)	9.5	9.5	9.4	9.3	9.2	9.2	9.1	9.0	9.0
		Stiffness, G', (10 ³ N/mm)	9.3	9.2	9.2	9.1	9.1	9.1	9.0	9.0	8.9
	230	Strength, (kN/m)	11.6	11.5	11.4	11.4	11.3	11.2	11.2	11.1	11.1
		Stiffness, G', (10 ³ N/mm)	10.3	10.3	10.3	10.3	10.3	10.3	10.2	10.2	10.2
	150	Strength, (kN/m)	15.8	15.7	15.6	15.6	15.5	15.5	15.4	15.4	15.3
		Stiffness, G', (10 ³ N/mm)	12.4	12.4	12.5	12.5	12.5	12.6	12.6	12.6	12.6
610/7	900	Strength, (kN/m)	6.4	6.2	6.0	5.9	5.8	5.6	5.5	5.4	5.3
		Stiffness, G', (10 ³ N/mm)	8.5	8.4	8.2	8.1	7.9	7.8	7.7	7.5	7.4
	600	Strength, (kN/m)	7.7	7.5	7.3	7.2	7.1	6.9	6.8	6.7	6.6
		Stiffness, G', (10 ³ N/mm)	9.2	9.0	8.9	8.8	8.7	8.5	8.4	8.3	8.2
	300	Strength, (kN/m)	11.6	11.4	11.2	11.1	10.9	10.8	10.7	10.6	10.5
		Stiffness, G', (10 ³ N/mm)	10.9	10.8	10.8	10.7	10.6	10.6	10.5	10.4	10.4
	230	Strength, (kN/m)	13.9	13.7	13.5	13.4	13.2	13.1	13.0	12.9	12.8
		Stiffness, G', (10 ³ N/mm)	11.8	11.8	11.7	11.7	11.6	11.6	11.6	11.5	11.5
	150	Strength, (kN/m)	18.2	18.0	17.9	17.8	17.6	17.5	17.4	17.3	17.2
		Stiffness, G', (10 ³ N/mm)	13.5	13.5	13.6	13.6	13.6	13.6	13.6	13.6	13.6

76 mm deck - 610 mm wide - 152 mm flute spacing

Thickness = 1.52

Support connection: Hilti X-EDN19, X-EDNK22

Limit States Design – FACTORED RESISTANCE

Side-lap connection: #10 Screws

$\phi = 0.50$

SDI METHOD – METRIC

Support Connection Pattern	Side Lap Spacing (mm)		Span (mm)									
			3 300	3 450	3 600	3 750	3 900	4 050	4 200	4 350	4 500	
610/3	900	Strength, (kN/m)	4.6	4.5	4.5	4.4	4.4	4.3	4.3	4.3	4.2	
		Stiffness, G', (10 ³ N/mm)	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
	600	Strength, (kN/m)	6.2	6.2	6.1	6.1	6.0	6.0	5.9	5.9	5.9	
		Stiffness, G', (10 ³ N/mm)	4.7	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	
	300	Strength, (kN/m)	10.1	10.1	10.0	10.0	9.9	9.9	9.9	9.8	9.8	
		Stiffness, G', (10 ³ N/mm)	6.0	6.1	6.2	6.2	6.3	6.4	6.4	6.5	6.5	
	230	Strength, (kN/m)	12.0	11.9	11.9	11.8	11.8	11.8	11.7	11.7	11.7	
		Stiffness, G', (10 ³ N/mm)	6.5	6.7	6.8	6.9	7.0	7.1	7.2	7.2	7.3	
	150	Strength, (kN/m)	15.1	15.0	15.0	15.0	15.0	14.9	14.9	14.9	14.9	
		Stiffness, G', (10 ³ N/mm)	7.4	7.6	7.8	7.9	8.1	8.2	8.4	8.5	8.6	
	610/5	900	Strength, (kN/m)	5.3	5.2	5.1	5.0	4.9	4.9	4.8	4.8	4.7
			Stiffness, G', (10 ³ N/mm)	7.2	7.0	6.9	6.8	6.6	6.5	6.4	6.3	6.2
600		Strength, (kN/m)	6.9	6.8	6.7	6.6	6.6	6.5	6.4	6.4	6.3	
		Stiffness, G', (10 ³ N/mm)	8.2	8.1	8.0	7.9	7.8	7.7	7.6	7.5	7.4	
300		Strength, (kN/m)	11.7	11.6	11.5	11.4	11.3	11.3	11.2	11.1	11.1	
		Stiffness, G', (10 ³ N/mm)	11.0	11.0	10.9	10.8	10.7	10.7	10.6	10.6	10.5	
230		Strength, (kN/m)	14.2	14.1	14.1	14.0	13.9	13.9	13.8	13.7	13.7	
		Stiffness, G', (10 ³ N/mm)	12.5	12.5	12.4	12.4	12.3	12.3	12.2	12.2	12.2	
150		Strength, (kN/m)	19.5	19.4	19.3	19.3	19.2	19.1	19.1	19.0	19.0	
		Stiffness, G', (10 ³ N/mm)	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	
610/7		900	Strength, (kN/m)	7.5	7.3	7.1	7.0	6.8	6.7	6.6	6.5	6.4
			Stiffness, G', (10 ³ N/mm)	9.8	9.6	9.4	9.2	9.0	8.9	8.7	8.6	8.4
	600	Strength, (kN/m)	9.1	8.9	8.8	8.6	8.5	8.3	8.2	8.1	8.0	
		Stiffness, G', (10 ³ N/mm)	10.7	10.5	10.3	10.2	10.0	9.9	9.7	9.6	9.4	
	300	Strength, (kN/m)	14.0	13.8	13.6	13.5	13.3	13.2	13.1	12.9	12.8	
		Stiffness, G', (10 ³ N/mm)	13.1	13.0	12.9	12.8	12.6	12.5	12.4	12.3	12.2	
	230	Strength, (kN/m)	16.8	16.6	16.5	16.3	16.2	16.0	15.9	15.8	15.7	
		Stiffness, G', (10 ³ N/mm)	14.4	14.3	14.2	14.1	14.0	14.0	13.9	13.8	13.7	
	150	Strength, (kN/m)	22.3	22.1	21.9	21.8	21.7	21.6	21.4	21.3	21.2	
		Stiffness, G', (10 ³ N/mm)	17.0	16.9	16.9	16.9	16.8	16.8	16.8	16.7	16.7	

76 mm deck - 610 mm wide - 203 mm flute spacing

Thickness = 0.76 mm

Support connection: Hilti X-EDN19, X-EDNK22

Limit States Design – FACTORED RESISTANCE

Side-lap connection: Button Punch

$\phi = 0.50$

SDI METHOD – METRIC

Support Connection Pattern	Side Lap Spacing (mm)		Span (mm)								
			2 400	2 550	2 700	2 850	3 000	3 150	3 300	3 450	3 600
610/4	900	Strength, (kN/m)	2.1	2.0	2.0	1.9	1.8	1.8	1.7	1.6	1.6
		Stiffness, G', (10 ³ N/mm)	2.9	2.9	2.8	2.8	2.8	2.7	2.7	2.6	2.6
	600	Strength, (kN/m)	2.4	2.3	2.2	2.2	2.1	2.0	2.0	1.9	1.9
		Stiffness, G', (10 ³ N/mm)	2.9	2.9	2.9	2.8	2.8	2.8	2.7	2.7	2.7
	300	Strength, (kN/m)	3.2	3.1	3.0	3.0	2.9	2.8	2.8	2.7	2.7
		Stiffness, G', (10 ³ N/mm)	3.0	3.0	3.0	3.0	2.9	2.9	2.9	2.8	2.8
	230	Strength, (kN/m)	3.7	3.6	3.5	3.5	3.4	3.3	3.3	3.2	3.2
		Stiffness, G', (10 ³ N/mm)	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9
	150	Strength, (kN/m)	4.8	4.7	4.7	4.6	4.5	4.4	4.4	4.3	4.3
		Stiffness, G', (10 ³ N/mm)	3.1	3.2	3.2	3.2	3.1	3.1	3.1	3.1	3.1
610/6	900	Strength, (kN/m)	3.7	3.5	3.4	3.2	3.1	3.0	2.9	2.8	2.7
		Stiffness, G', (10 ³ N/mm)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.6
	600	Strength, (kN/m)	4.0	3.8	3.6	3.5	3.4	3.2	3.1	3.0	2.9
		Stiffness, G', (10 ³ N/mm)	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	300	Strength, (kN/m)	4.8	4.6	4.4	4.3	4.2	4.0	3.9	3.8	3.7
		Stiffness, G', (10 ³ N/mm)	3.7	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	230	Strength, (kN/m)	5.3	5.1	4.9	4.8	4.7	4.5	4.4	4.3	4.2
		Stiffness, G', (10 ³ N/mm)	3.8	3.8	3.8	3.8	3.9	3.9	3.9	3.8	3.8
	150	Strength, (kN/m)	6.4	6.2	6.1	5.9	5.8	5.7	5.5	5.4	5.4
		Stiffness, G', (10 ³ N/mm)	3.8	3.9	3.9	3.9	4.0	4.0	4.0	4.0	4.0

76 mm deck - 610 mm wide - 203 mm flute spacing

Thickness = 0.91 mm

Support connection: Hilti X-EDN19, X-EDNK22

Limit States Design – FACTORED RESISTANCE

Side-lap connection: Button Punch

$\phi = 0.50$

SDI METHOD – METRIC

Support Connection Pattern	Side Lap Spacing (mm)		Span (mm)								
			2 700	2 850	3 000	3 150	3 300	3 450	3 600	3 750	3 900
610/4	900	Strength, (kN/m)	2.4	2.3	2.3	2.2	2.1	2.1	2.0	2.0	1.9
		Stiffness, G', (10 ³ N/mm)	3.5	3.4	3.4	3.3	3.2	3.2	3.1	3.0	3.0
	600	Strength, (kN/m)	2.8	2.7	2.6	2.6	2.5	2.5	2.4	2.3	2.3
		Stiffness, G', (10 ³ N/mm)	3.6	3.5	3.4	3.4	3.3	3.2	3.2	3.1	3.0
	300	Strength, (kN/m)	4.0	3.9	3.8	3.7	3.7	3.6	3.6	3.5	3.5
		Stiffness, G', (10 ³ N/mm)	3.7	3.6	3.6	3.5	3.5	3.4	3.4	3.3	3.3
	230	Strength, (kN/m)	4.7	4.6	4.5	4.4	4.4	4.3	4.3	4.2	4.2
		Stiffness, G', (10 ³ N/mm)	3.8	3.7	3.7	3.6	3.6	3.5	3.5	3.4	3.4
	150	Strength, (kN/m)	6.3	6.2	6.1	6.0	6.0	5.9	5.8	5.8	5.7
		Stiffness, G', (10 ³ N/mm)	4.0	3.9	3.9	3.9	3.8	3.8	3.7	3.7	3.7
610/6	900	Strength, (kN/m)	4.1	3.9	3.8	3.6	3.5	3.4	3.3	3.2	3.1
		Stiffness, G', (10 ³ N/mm)	4.8	4.8	4.7	4.7	4.6	4.5	4.5	4.4	4.4
	600	Strength, (kN/m)	4.5	4.3	4.2	4.0	3.9	3.8	3.7	3.6	3.5
		Stiffness, G', (10 ³ N/mm)	4.8	4.8	4.7	4.7	4.7	4.6	4.5	4.5	4.4
	300	Strength, (kN/m)	5.7	5.5	5.3	5.2	5.1	4.9	4.8	4.7	4.6
		Stiffness, G', (10 ³ N/mm)	4.9	4.9	4.9	4.8	4.8	4.7	4.7	4.6	4.6
	230	Strength, (kN/m)	6.4	6.2	6.0	5.9	5.8	5.6	5.5	5.4	5.3
		Stiffness, G', (10 ³ N/mm)	5.0	5.0	4.9	4.9	4.9	4.8	4.8	4.7	4.7
	150	Strength, (kN/m)	8.0	7.8	7.7	7.5	7.4	7.3	7.2	7.1	7.0
		Stiffness, G', (10 ³ N/mm)	5.1	5.1	5.1	5.0	5.0	5.0	4.9	4.9	4.9

76 mm deck - 610 mm wide - 203 mm flute spacing
Thickness = 1.21 mm
Support connection: Hilti X-EDN19, X-EDNK22
Limit States Design – FACTORED RESISTANCE
Side-lap connection: Button Punch
 $\phi = 0.50$
SDI METHOD – METRIC

Support Connection Pattern	Side Lap Spacing (mm)		Span (mm)								
			3 000	3 150	3 300	3 450	3 600	3 750	3 900	4 050	4 200
610/4	900	Strength, (kN/m)	3.2	3.1	3.1	3.0	2.9	2.9	2.8	2.7	2.7
		Stiffness, G' , (10^3 N/mm)	4.4	4.3	4.2	4.0	3.9	3.8	3.7	3.6	3.5
	600	Strength, (kN/m)	3.9	3.8	3.7	3.7	3.6	3.5	3.5	3.4	3.4
		Stiffness, G' , (10^3 N/mm)	4.5	4.4	4.3	4.1	4.0	3.9	3.8	3.7	3.6
	300	Strength, (kN/m)	6.0	5.9	5.8	5.7	5.7	5.6	5.6	5.5	5.5
		Stiffness, G' , (10^3 N/mm)	4.7	4.6	4.5	4.4	4.3	4.2	4.1	4.0	4.0
	230	Strength, (kN/m)	7.2	7.2	7.1	7.0	6.9	6.9	6.8	6.8	6.7
		Stiffness, G' , (10^3 N/mm)	4.9	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.1
	150	Strength, (kN/m)	9.7	9.6	9.6	9.5	9.4	9.4	9.3	9.3	9.2
		Stiffness, G' , (10^3 N/mm)	5.2	5.1	5.0	4.9	4.8	4.8	4.7	4.6	4.5
610/6	900	Strength, (kN/m)	5.2	5.0	4.9	4.7	4.6	4.5	4.3	4.2	4.1
		Stiffness, G' , (10^3 N/mm)	6.5	6.4	6.2	6.1	6.0	5.8	5.7	5.6	5.5
	600	Strength, (kN/m)	5.9	5.7	5.6	5.4	5.3	5.1	5.0	4.9	4.8
		Stiffness, G' , (10^3 N/mm)	6.6	6.4	6.3	6.2	6.0	5.9	5.8	5.7	5.6
	300	Strength, (kN/m)	8.0	7.8	7.6	7.5	7.3	7.2	7.1	7.0	6.9
		Stiffness, G' , (10^3 N/mm)	6.7	6.6	6.5	6.4	6.3	6.1	6.0	5.9	5.8
	230	Strength, (kN/m)	9.2	9.1	8.9	8.7	8.6	8.5	8.4	8.2	8.1
		Stiffness, G' , (10^3 N/mm)	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1	5.9
	150	Strength, (kN/m)	12.0	11.8	11.7	11.5	11.4	11.3	11.1	11.0	10.9
		Stiffness, G' , (10^3 N/mm)	7.1	7.0	6.9	6.8	6.7	6.6	6.5	6.4	6.3

76 mm deck - 610 mm wide - 203 mm flute spacing

Thickness = 1.52 mm

Support connection: Hilti X-EDN19, X-EDNK22

Limit States Design – FACTORED RESISTANCE

Side-lap connection: Button Punch

$\phi = 0.50$

SDI METHOD – METRIC

Support Connection Pattern	Side Lap Spacing (mm)		Span (mm)									
			3 300	3 450	3 600	3 750	3 900	4 050	4 200	4 350	4 500	
610/4	900	Strength, (kN/m)	4.1	4.0	3.9	3.9	3.8	3.7	3.7	3.6	3.6	
		Stiffness, G', (10 ³ N/mm)	4.9	4.8	4.6	4.5	4.4	4.2	4.1	4.0	3.9	
	600	Strength, (kN/m)	5.2	5.1	5.0	4.9	4.9	4.8	4.8	4.7	4.7	
		Stiffness, G', (10 ³ N/mm)	5.0	4.9	4.7	4.6	4.5	4.4	4.2	4.1	4.0	
	300	Strength, (kN/m)	8.4	8.3	8.2	8.2	8.1	8.0	8.0	7.9	7.9	
		Stiffness, G', (10 ³ N/mm)	5.4	5.2	5.1	5.0	4.8	4.7	4.6	4.5	4.4	
	230	Strength, (kN/m)	10.2	10.1	10.0	10.0	9.9	9.8	9.8	9.7	9.7	
		Stiffness, G', (10 ³ N/mm)	5.6	5.4	5.3	5.2	5.1	4.9	4.8	4.7	4.6	
	150	Strength, (kN/m)	13.8	13.7	13.6	13.6	13.5	13.5	13.4	13.4	13.3	
		Stiffness, G', (10 ³ N/mm)	6.0	5.9	5.8	5.6	5.5	5.4	5.3	5.2	5.1	
	610/6	900	Strength, (kN/m)	6.3	6.2	6.0	5.8	5.7	5.6	5.4	5.3	5.2
			Stiffness, G', (10 ³ N/mm)	7.6	7.4	7.2	7.0	6.8	6.7	6.5	6.3	6.2
600		Strength, (kN/m)	7.4	7.2	7.1	6.9	6.8	6.6	6.5	6.4	6.3	
		Stiffness, G', (10 ³ N/mm)	7.7	7.5	7.3	7.1	6.9	6.8	6.6	6.5	6.3	
300		Strength, (kN/m)	10.7	10.5	10.3	10.1	10.0	9.9	9.8	9.6	9.5	
		Stiffness, G', (10 ³ N/mm)	7.9	7.8	7.6	7.4	7.2	7.1	6.9	6.8	6.6	
230		Strength, (kN/m)	12.6	12.4	12.3	12.1	12.0	11.8	11.7	11.6	11.5	
		Stiffness, G', (10 ³ N/mm)	8.1	7.9	7.7	7.6	7.4	7.3	7.1	7.0	6.8	
150		Strength, (kN/m)	16.5	16.3	16.2	16.0	15.9	15.8	15.7	15.6	15.5	
		Stiffness, G', (10 ³ N/mm)	8.5	8.3	8.1	8.0	7.8	7.7	7.5	7.4	7.3	

76 mm deck - 610 mm wide - 203 mm flute spacing

Thickness = 0.76 mm

Support connection: Hilti X-EDN19, X-EDNK22

Limit States Design – FACTORED RESISTANCE

Side-lap connection: #10 Screws

$\phi = 0.50$

SDI METHOD – METRIC

Support Connection Pattern	Side Lap Spacing (mm)		Span (mm)								
			2 400	2 550	2 700	2 850	3 000	3 150	3 300	3 450	3 600
610/4	900	Strength, (kN/m)	2.8	2.7	2.7	2.6	2.6	2.5	2.5	2.4	2.4
		Stiffness, G', (10 ³ N/mm)	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	600	Strength, (kN/m)	3.6	3.5	3.5	3.4	3.4	3.3	3.3	3.3	3.2
		Stiffness, G', (10 ³ N/mm)	3.4	3.4	3.5	3.5	3.5	3.6	3.6	3.6	3.6
	300	Strength, (kN/m)	5.9	5.8	5.8	5.7	5.7	5.6	5.6	5.5	5.5
		Stiffness, G', (10 ³ N/mm)	3.9	4.0	4.1	4.2	4.2	4.3	4.4	4.4	4.5
	230	Strength, (kN/m)	7.1	7.0	6.9	6.9	6.8	6.8	6.8	6.7	6.7
		Stiffness, G', (10 ³ N/mm)	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9
	150	Strength, (kN/m)	9.3	9.2	9.2	9.1	9.1	9.1	9.0	9.0	9.0
		Stiffness, G', (10 ³ N/mm)	4.5	4.6	4.8	4.9	5.0	5.1	5.3	5.4	5.5
610/6	900	Strength, (kN/m)	4.4	4.2	4.1	4.0	3.8	3.7	3.6	3.6	3.5
		Stiffness, G', (10 ³ N/mm)	3.8	3.9	3.9	4.0	4.0	4.0	4.0	4.1	4.1
	600	Strength, (kN/m)	5.2	5.0	4.9	4.8	4.7	4.5	4.5	4.4	4.3
		Stiffness, G', (10 ³ N/mm)	4.0	4.0	4.1	4.2	4.2	4.2	4.3	4.3	4.3
	300	Strength, (kN/m)	7.6	7.5	7.3	7.2	7.1	7.0	6.9	6.8	6.7
		Stiffness, G', (10 ³ N/mm)	4.3	4.4	4.5	4.6	4.7	4.8	4.8	4.9	5.0
	230	Strength, (kN/m)	8.9	8.7	8.6	8.5	8.3	8.2	8.1	8.1	8.0
		Stiffness, G', (10 ³ N/mm)	4.4	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.2
	150	Strength, (kN/m)	11.2	11.1	11.0	10.9	10.8	10.7	10.6	10.6	10.5
		Stiffness, G', (10 ³ N/mm)	4.7	4.8	5.0	5.1	5.3	5.4	5.5	5.6	5.7

76 mm deck - 610 mm wide - 203 mm flute spacing

Thickness = 0.91 mm

Support connection: Hilti X-EDN19, X-EDNK22

Limit States Design – FACTORED RESISTANCE

Side-lap connection: #10 Screws

$\phi = 0.50$

SDI METHOD – METRIC

Support Connection Pattern	Side Lap Spacing (mm)		Span (mm)								
			2 700	2 850	3 000	3 150	3 300	3 450	3 600	3 750	3 900
610/4	900	Strength, (kN/m)	3.2	3.1	3.1	3.0	3.0	2.9	2.9	2.8	2.8
		Stiffness, G', (10 ³ N/mm)	4.1	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9
	600	Strength, (kN/m)	4.2	4.1	4.0	4.0	3.9	3.9	3.9	3.8	3.8
		Stiffness, G', (10 ³ N/mm)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.4
	300	Strength, (kN/m)	6.9	6.9	6.8	6.7	6.7	6.6	6.6	6.6	6.5
		Stiffness, G', (10 ³ N/mm)	5.4	5.4	5.5	5.5	5.6	5.6	5.7	5.7	5.8
	230	Strength, (kN/m)	8.3	8.2	8.2	8.1	8.1	8.1	8.0	8.0	7.9
		Stiffness, G', (10 ³ N/mm)	5.8	5.9	6.0	6.0	6.1	6.2	6.3	6.3	6.4
	150	Strength, (kN/m)	11.0	10.9	10.9	10.9	10.8	10.8	10.8	10.7	10.7
		Stiffness, G', (10 ³ N/mm)	6.5	6.6	6.8	6.9	7.0	7.1	7.2	7.3	7.4
610/6	900	Strength, (kN/m)	4.9	4.7	4.6	4.5	4.4	4.2	4.2	4.1	4.0
		Stiffness, G', (10 ³ N/mm)	5.1	5.2	5.2	5.1	5.1	5.1	5.1	5.1	5.0
	600	Strength, (kN/m)	5.9	5.7	5.6	5.4	5.3	5.2	5.1	5.0	5.0
		Stiffness, G', (10 ³ N/mm)	5.4	5.4	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	300	Strength, (kN/m)	8.8	8.6	8.5	8.4	8.2	8.1	8.0	7.9	7.9
		Stiffness, G', (10 ³ N/mm)	6.0	6.1	6.2	6.3	6.3	6.4	6.4	6.5	6.5
	230	Strength, (kN/m)	10.3	10.1	10.0	9.9	9.8	9.7	9.6	9.5	9.4
		Stiffness, G', (10 ³ N/mm)	6.3	6.4	6.5	6.6	6.7	6.8	6.9	6.9	7.0
	150	Strength, (kN/m)	13.2	13.0	12.9	12.8	12.7	12.7	12.6	12.5	12.4
		Stiffness, G', (10 ³ N/mm)	6.8	7.0	7.2	7.3	7.4	7.5	7.7	7.8	7.9

76 mm deck - 610 mm wide - 203 mm flute spacing

Thickness = 1.21 mm

Support connection: Hilti X-EDN19, X-EDNK22

Limit States Design – FACTORED RESISTANCE

Side-lap connection: #10 Screws

$\phi = 0.50$

SDI METHOD – METRIC

Support Connection Pattern	Side Lap Spacing (mm)		Span (mm)								
			3 000	3 150	3 300	3 450	3 600	3 750	3 900	4 050	4 200
610/4	900	Strength, (kN/m)	4.1	4.0	3.9	3.9	3.8	3.8	3.7	3.7	3.6
		Stiffness, G', (10 ³ N/mm)	5.4	5.3	5.3	5.2	5.1	5.1	5.0	5.0	4.9
	600	Strength, (kN/m)	5.4	5.3	5.2	5.2	5.1	5.1	5.0	5.0	4.9
		Stiffness, G', (10 ³ N/mm)	6.1	6.1	6.0	6.0	5.9	5.9	5.8	5.8	5.8
	300	Strength, (kN/m)	9.0	8.9	8.9	8.8	8.8	8.7	8.7	8.6	8.6
		Stiffness, G', (10 ³ N/mm)	7.8	7.8	7.9	7.9	7.9	7.9	7.9	7.9	7.9
	230	Strength, (kN/m)	10.9	10.8	10.8	10.7	10.6	10.6	10.6	10.5	10.5
		Stiffness, G', (10 ³ N/mm)	8.6	8.7	8.8	8.8	8.8	8.9	8.9	8.9	9.0
	150	Strength, (kN/m)	14.5	14.4	14.4	14.3	14.3	14.2	14.2	14.2	14.1
		Stiffness, G', (10 ³ N/mm)	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	10.9
610/6	900	Strength, (kN/m)	6.1	5.9	5.8	5.6	5.5	5.4	5.3	5.2	5.1
		Stiffness, G', (10 ³ N/mm)	7.2	7.2	7.1	7.0	6.9	6.8	6.7	6.7	6.6
	600	Strength, (kN/m)	7.4	7.2	7.0	6.9	6.8	6.7	6.6	6.5	6.4
		Stiffness, G', (10 ³ N/mm)	7.8	7.7	7.6	7.6	7.5	7.5	7.4	7.4	7.3
	300	Strength, (kN/m)	11.3	11.1	10.9	10.8	10.7	10.6	10.4	10.4	10.3
		Stiffness, G', (10 ³ N/mm)	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
	230	Strength, (kN/m)	13.2	13.1	12.9	12.8	12.7	12.6	12.5	12.4	12.3
		Stiffness, G', (10 ³ N/mm)	9.7	9.8	9.8	9.9	9.9	9.9	10.0	10.0	10.0
	150	Strength, (kN/m)	17.2	17.0	16.9	16.8	16.7	16.6	16.5	16.4	16.3
		Stiffness, G', (10 ³ N/mm)	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.6	11.7

76 mm deck - 610 mm wide - 203 mm flute spacing

Thickness = 1.52 mm

Support connection: Hilti X-EDN19, X-EDNK22

Limit States Design – FACTORED RESISTANCE

Side-lap connection: #10 Screws

$\phi = 0.50$

SDI METHOD – METRIC

Support Connection Pattern	Side Lap Spacing (mm)		Span (mm)								
			3 300	3 450	3 600	3 750	3 900	4 050	4 200	4 350	4 500
610/4	900	Strength, (kN/m)	4.9	4.8	4.8	4.7	4.6	4.6	4.5	4.5	4.4
		Stiffness, G', (10 ³ N/mm)	6.3	6.2	6.1	6.0	6.0	5.9	5.8	5.7	5.7
	600	Strength, (kN/m)	6.5	6.4	6.4	6.3	6.3	6.2	6.2	6.1	6.1
		Stiffness, G', (10 ³ N/mm)	7.3	7.2	7.1	7.1	7.0	6.9	6.9	6.8	6.8
	300	Strength, (kN/m)	11.0	11.0	10.9	10.8	10.8	10.7	10.7	10.6	10.6
		Stiffness, G', (10 ³ N/mm)	9.8	9.8	9.8	9.7	9.7	9.7	9.7	9.7	9.6
	230	Strength, (kN/m)	13.4	13.3	13.3	13.2	13.1	13.1	13.1	13.0	13.0
		Stiffness, G', (10 ³ N/mm)	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
	150	Strength, (kN/m)	17.9	17.8	17.8	17.7	17.7	17.6	17.6	17.6	17.5
		Stiffness, G', (10 ³ N/mm)	13.5	13.6	13.6	13.7	13.8	13.8	13.9	13.9	14.0
610/6	900	Strength, (kN/m)	7.1	7.0	6.8	6.7	6.5	6.4	6.3	6.2	6.1
		Stiffness, G', (10 ³ N/mm)	8.7	8.6	8.4	8.3	8.2	8.1	7.9	7.8	7.7
	600	Strength, (kN/m)	8.7	8.6	8.4	8.3	8.2	8.0	7.9	7.8	7.7
		Stiffness, G', (10 ³ N/mm)	9.5	9.4	9.3	9.2	9.1	9.0	8.9	8.8	8.7
	300	Strength, (kN/m)	13.6	13.4	13.3	13.1	13.0	12.9	12.8	12.7	12.6
		Stiffness, G', (10 ³ N/mm)	11.6	11.5	11.5	11.4	11.4	11.3	11.3	11.2	11.2
	230	Strength, (kN/m)	16.1	15.9	15.8	15.6	15.5	15.4	15.3	15.2	15.1
		Stiffness, G', (10 ³ N/mm)	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.5	12.5
	150	Strength, (kN/m)	21.0	20.9	20.8	20.6	20.5	20.4	20.3	20.3	20.2
		Stiffness, G', (10 ³ N/mm)	14.7	14.8	14.8	14.9	14.9	15.0	15.0	15.0	15.0

38 mm deck - 914 mm wide - 152 mm flute spacing
Support connection: Hilti X-EDN19, X-EDNK22
Side-lap connection: Button Punch @ 600 mm o.c.
Concrete resistance: 20 MPa Minimum

Limit States Design – FACTORED RESISTANCE
 $\phi = 0.50$
65 mm thick concrete over deck
Concrete density: 2300 kg/m³ Minimum

SDI METHOD – METRIC

Thickness = 0.76 mm										
Support Connection Pattern		Span (mm)								
		900	1 050	1 200	1 350	1 500	1 650	1 800	1 950	2 100
914/4	Strength, (kN/m)	41.3	40.6	40.0	39.6	39.3	39.0	38.8	38.6	38.4
	Stiffness, G', (10 ³ N/mm)	431	429	428	427	426	426	425	424	424
914/7	Strength, (kN/m)	43.5	42.5	41.7	41.1	40.6	40.2	39.9	39.6	39.4
	Stiffness, G', (10 ³ N/mm)	435	433	432	431	430	429	428	427	427
914/9	Strength, (kN/m)	48.5	46.7	45.4	44.4	43.6	42.9	42.4	41.9	41.5
	Stiffness, G', (10 ³ N/mm)	439	438	436	435	434	433	432	431	430

Thickness = 0.91 mm										
Support Connection Pattern		Span (mm)								
		1 200	1 350	1 500	1 650	1 800	1 950	2 100	2 250	2 400
914/4	Strength, (kN/m)	41.0	40.5	40.1	39.8	39.5	39.3	39.1	39.0	38.8
	Stiffness, G', (10 ³ N/mm)	430	428	428	427	426	425	425	424	424
914/7	Strength, (kN/m)	43.0	42.3	41.7	41.3	40.9	40.5	40.3	40.0	39.8
	Stiffness, G', (10 ³ N/mm)	434	433	432	431	430	429	428	428	427
914/9	Strength, (kN/m)	47.4	46.2	45.3	44.5	43.8	43.3	42.8	42.4	42.0
	Stiffness, G', (10 ³ N/mm)	439	438	436	435	434	433	432	432	431

Thickness = 1.21 mm										
Support Connection Pattern		Span (mm)								
		1 500	1 650	1 800	1 950	2 100	2 250	2 400	2 550	2 700
914/4	Strength, (kN/m)	41.9	41.5	41.2	40.9	40.7	40.5	40.3	40.1	40.0
	Stiffness, G', (10 ³ N/mm)	430	429	428	427	426	426	425	425	425
914/7	Strength, (kN/m)	44.0	43.4	42.9	42.5	42.2	41.9	41.6	41.3	41.1
	Stiffness, G', (10 ³ N/mm)	435	433	432	431	431	430	429	428	428
914/9	Strength, (kN/m)	48.7	47.7	46.9	46.1	45.5	45.0	44.5	44.1	43.7
	Stiffness, G', (10 ³ N/mm)	441	439	438	437	436	435	434	433	432

Thickness = 1.52 mm										
Support Connection Pattern		Span (mm)								
		1 800	1 950	2 100	2 250	2 400	2 550	2 700	2 850	3 000
914/4	Strength, (kN/m)	43.0	42.7	42.4	42.1	41.9	41.7	41.6	41.4	41.3
	Stiffness, G', (10 ³ N/mm)	430	429	428	427	427	426	426	425	425
914/7	Strength, (kN/m)	45.1	44.6	44.2	43.9	43.5	43.2	43.0	42.8	42.6
	Stiffness, G', (10 ³ N/mm)	435	434	433	432	431	430	430	429	428
914/9	Strength, (kN/m)	50.0	49.1	48.4	47.7	47.2	46.7	46.2	45.8	45.5
	Stiffness, G', (10 ³ N/mm)	441	440	439	438	437	436	435	434	433

38 mm deck - 914 mm wide - 152 mm flute spacing
Support connection: Hilti X-EDN19, X-EDNK22
Side-lap connection: #10 Screws @ 600 mm o.c.
Concrete resistance: 20 MPa Minimum

Limit States Design – FACTORED RESISTANCE
 $\phi = 0.50$
65 mm thick concrete over deck
Concrete density: 2300 kg/m³ Minimum

SDI METHOD – METRIC

Thickness = 0.76 mm										
Support Connection Pattern		Span (mm)								
		900	1 050	1 200	1 350	1 500	1 650	1 800	1 950	2 100
914/4	Strength, (kN/m)	41.8	41.3	40.8	40.5	40.3	40.0	39.9	39.7	39.6
	Stiffness, G', (10 ³ N/mm)	431	430	429	429	428	427	427	426	426
914/7	Strength, (kN/m)	44.0	43.2	42.5	42.0	41.6	41.2	41.0	40.7	40.5
	Stiffness, G', (10 ³ N/mm)	435	434	433	432	431	430	430	429	429
914/9	Strength, (kN/m)	49.0	47.4	46.2	45.3	44.6	44.0	43.5	43.0	42.7
	Stiffness, G', (10 ³ N/mm)	440	438	437	436	435	434	433	433	432

Thickness = 0.91 mm										
Support Connection Pattern		Span (mm)								
		1 200	1 350	1 500	1 650	1 800	1 950	2 100	2 250	2 400
914/4	Strength, (kN/m)	41.9	41.5	41.2	40.9	40.7	40.5	40.4	40.3	40.1
	Stiffness, G', (10 ³ N/mm)	431	430	429	429	428	428	427	427	427
914/7	Strength, (kN/m)	43.9	43.3	42.8	42.4	42.0	41.8	41.5	41.3	41.1
	Stiffness, G', (10 ³ N/mm)	435	434	433	432	431	431	430	430	429
914/9	Strength, (kN/m)	48.3	47.2	46.3	45.6	45.0	44.5	44.1	43.7	43.4
	Stiffness, G', (10 ³ N/mm)	440	439	437	436	436	435	434	433	433

Thickness = 1.21 mm										
Support Connection Pattern		Span (mm)								
		1 500	1 650	1 800	1 950	2 100	2 250	2 400	2 550	2 700
914/4	Strength, (kN/m)	43.0	42.7	42.4	42.2	42.0	41.8	41.6	41.5	41.4
	Stiffness, G', (10 ³ N/mm)	432	431	430	430	429	429	429	428	428
914/7	Strength, (kN/m)	45.1	44.6	44.2	43.8	43.5	43.2	43.0	42.7	42.6
	Stiffness, G', (10 ³ N/mm)	437	435	435	434	433	432	432	431	431
914/9	Strength, (kN/m)	49.8	48.9	48.1	47.4	46.8	46.3	45.9	45.5	45.2
	Stiffness, G', (10 ³ N/mm)	442	441	440	439	438	437	436	436	435

Thickness = 1.52 mm										
Support Connection Pattern		Span (mm)								
		1 800	1 950	2 100	2 250	2 400	2 550	2 700	2 850	3 000
914/4	Strength, (kN/m)	44.1	43.8	43.5	43.3	43.1	43.0	42.8	42.7	42.6
	Stiffness, G', (10 ³ N/mm)	433	432	431	431	430	430	430	429	429
914/7	Strength, (kN/m)	46.2	45.8	45.4	45.0	44.8	44.5	44.3	44.1	43.9
	Stiffness, G', (10 ³ N/mm)	437	436	436	435	434	434	433	433	432
914/9	Strength, (kN/m)	51.1	50.2	49.5	48.9	48.4	47.9	47.5	47.1	46.8
	Stiffness, G', (10 ³ N/mm)	443	442	441	440	439	439	438	437	437

76 mm deck - 610 mm wide - 152 mm flute spacing
Support connection: Hilti X-EDN19, X-EDNK22
Side-lap connection: Button Punch @ 600 mm o.c.
Concrete resistance: 20 MPa Minimum

Limit States Design – FACTORED RESISTANCE
 $\phi = 0.50$
65 mm thick concrete over deck
Concrete density: 2300 kg/m³ Minimum

SDI METHOD – METRIC

Thickness = 0.76 mm										
Support Connection Pattern		Span (mm)								
		2 400	2 550	2 700	2 850	3 000	3 150	3 300	3 450	3 600
610/3	Strength, (kN/m)	37.9	37.8	37.8	37.7	37.6	37.5	37.5	37.4	37.4
	Stiffness, G', (10 ³ N/mm)	420	420	419	419	419	419	419	419	419
610/5	Strength, (kN/m)	38.4	38.3	38.2	38.1	38.0	37.9	37.8	37.8	37.7
	Stiffness, G', (10 ³ N/mm)	421	421	421	421	420	420	420	420	420
610/7	Strength, (kN/m)	40.3	40.0	39.8	39.6	39.5	39.3	39.2	39.1	38.9
	Stiffness, G', (10 ³ N/mm)	424	424	423	423	423	422	422	422	422

Thickness = 0.91 mm										
Support Connection Pattern		Span (mm)								
		2 700	2 850	3 000	3 150	3 300	3 450	3 600	3 750	3 900
610/3	Strength, (kN/m)	38.4	38.3	38.2	38.1	38.0	38.0	37.9	37.9	37.8
	Stiffness, G', (10 ³ N/mm)	420	420	420	419	419	419	419	419	419
610/5	Strength, (kN/m)	38.9	38.7	38.6	38.5	38.4	38.4	38.3	38.2	38.2
	Stiffness, G', (10 ³ N/mm)	421	421	421	421	421	420	420	420	420
610/7	Strength, (kN/m)	40.8	40.6	40.4	40.2	40.1	39.9	39.8	39.7	39.5
	Stiffness, G', (10 ³ N/mm)	424	424	423	423	423	423	422	422	422

Thickness = 1.21 mm										
Support Connection Pattern		Span (mm)								
		3 000	3 150	3 300	3 450	3 600	3 750	3 900	4 050	4 200
610/3	Strength, (kN/m)	39.5	39.4	39.3	39.2	39.2	39.1	39.0	39.0	38.9
	Stiffness, G', (10 ³ N/mm)	420	420	420	420	420	419	419	419	419
610/5	Strength, (kN/m)	40.1	39.9	39.8	39.7	39.6	39.6	39.5	39.4	39.3
	Stiffness, G', (10 ³ N/mm)	422	422	421	421	421	421	421	421	420
610/7	Strength, (kN/m)	42.4	42.2	42.0	41.8	41.6	41.4	41.3	41.1	41.0
	Stiffness, G', (10 ³ N/mm)	425	424	424	424	424	423	423	423	423

Thickness = 1.52 mm										
Support Connection Pattern		Span (mm)								
		3 300	3 450	3 600	3 750	3 900	4 050	4 200	4 350	4 500
610/3	Strength, (kN/m)	40.7	40.7	40.6	40.5	40.4	40.4	40.3	40.3	40.2
	Stiffness, G', (10 ³ N/mm)	420	420	420	420	420	420	419	419	419
610/5	Strength, (kN/m)	41.4	41.3	41.2	41.1	41.0	40.9	40.8	40.8	40.7
	Stiffness, G', (10 ³ N/mm)	422	422	422	421	421	421	421	421	421
610/7	Strength, (kN/m)	44.0	43.8	43.6	43.4	43.2	43.1	42.9	42.8	42.6
	Stiffness, G', (10 ³ N/mm)	425	425	425	424	424	424	424	433	433

76 mm deck - 610 mm wide - 203 mm flute spacing
Support connection: Hilti X-EDN19, X-EDNK22
Side-lap connection: #10 Screws @ 600 mm o.c.
Concrete resistance: 20 MPa Minimum

Limit States Design – FACTORED RESISTANCE
 $\phi = 0.50$
65 mm thick concrete over deck
Concrete density: 2300 kg/m³ Minimum

SDI METHOD – METRIC

Thickness = 0.76 mm										
Support Connection Pattern		Span (mm)								
		2 400	2 550	2 700	2 850	3 000	3 150	3 300	3 450	3 600
610/3	Strength, (kN/m)	39.2	39.1	39.0	39.0	38.9	38.9	38.8	38.8	38.7
	Stiffness, G', (10 ³ N/mm)	421	421	421	421	421	421	421	421	421
610/5	Strength, (kN/m)	39.6	39.5	39.4	39.4	39.3	39.2	39.2	39.1	39.1
	Stiffness, G', (10 ³ N/mm)	423	423	422	422	422	422	422	422	422
610/7	Strength, (kN/m)	41.5	41.3	41.1	40.9	40.8	40.6	40.5	40.4	40.3
	Stiffness, G', (10 ³ N/mm)	425	425	425	424	424	424	424	424	423

Thickness = 0.91 mm										
Support Connection Pattern		Span (mm)								
		2 700	2 850	3 000	3 150	3 300	3 450	3 600	3 750	3 900
610/3	Strength, (kN/m)	39.7	39.6	39.6	39.5	39.5	39.4	39.4	39.3	39.3
	Stiffness, G', (10 ³ N/mm)	422	422	422	421	421	421	421	421	421
610/5	Strength, (kN/m)	40.2	40.1	40.0	40.0	39.9	39.8	39.8	39.7	39.7
	Stiffness, G', (10 ³ N/mm)	423	423	423	423	423	422	422	422	422
610/7	Strength, (kN/m)	42.2	42.0	41.8	41.7	41.5	41.4	41.2	41.1	41.0
	Stiffness, G', (10 ³ N/mm)	426	425	425	425	425	424	424	424	424

Thickness = 1.21 mm										
Support Connection Pattern		Span (mm)								
		3 000	3 150	3 300	3 450	3 600	3 750	3 900	4 050	4 200
610/3	Strength, (kN/m)	40.9	40.9	40.8	40.7	40.7	40.6	40.6	40.5	40.5
	Stiffness, G', (10 ³ N/mm)	423	422	422	422	422	422	422	422	422
610/5	Strength, (kN/m)	41.5	41.4	41.3	41.2	41.2	41.1	41.0	41.0	40.9
	Stiffness, G', (10 ³ N/mm)	424	424	424	424	423	423	423	423	423
610/7	Strength, (kN/m)	43.9	43.6	43.5	43.3	43.1	43.0	42.8	42.7	42.6
	Stiffness, G', (10 ³ N/mm)	427	427	426	426	426	426	425	425	425

Thickness = 1.52 mm										
Support Connection Pattern		Span (mm)								
		3 300	3 450	3 600	3 750	3 900	4 050	4 200	4 350	4 500
610/3	Strength, (kN/m)	42.1	42.0	41.9	41.9	41.8	41.8	41.7	41.7	41.6
	Stiffness, G', (10 ³ N/mm)	423	423	423	423	423	423	423	423	423
610/5	Strength, (kN/m)	42.7	42.6	42.5	42.5	42.4	42.3	42.2	42.2	42.1
	Stiffness, G', (10 ³ N/mm)	425	425	424	424	424	424	424	424	424
610/7	Strength, (kN/m)	45.4	45.2	45.0	44.8	44.6	44.4	44.3	44.2	44.0
	Stiffness, G', (10 ³ N/mm)	428	428	427	427	427	427	426	426	426

76 mm deck - 610 mm wide - 203 mm flute spacing
Support connection: Hilti X-EDN19, X-EDNK22
Side-lap connection: Button Punch @ 600 mm o.c.
Concrete resistance: 20 MPa Minimum

Limit States Design – FACTORED RESISTANCE
 $\phi = 0.50$
65 mm thick concrete over deck
Concrete density: 2300 kg/m³ Minimum

SDI METHOD – METRIC

Thickness = 0.76 mm										
Support Connection Pattern		Span (mm)								
		2 400	2 550	2 700	2 850	3 000	3 150	3 300	3 450	3 600
610/4	Strength, (kN/m)	38.2	38.0	37.9	37.9	37.8	37.7	37.6	37.6	37.5
	Stiffness, G', (10 ³ N/mm)	421	421	420	420	420	420	420	420	419
610/6	Strength, (kN/m)	40.0	39.8	39.6	39.4	39.3	39.1	39.0	38.9	38.8
	Stiffness, G', (10 ³ N/mm)	424	423	423	423	422	422	422	422	422

Thickness = 0.91 mm										
Support Connection Pattern		Span (mm)								
		2 700	2 850	3 000	3 150	3 300	3 450	3 600	3 750	3 900
610/4	Strength, (kN/m)	38.6	38.5	38.4	38.3	38.2	38.2	38.1	38.0	38.0
	Stiffness, G', (10 ³ N/mm)	421	421	420	420	420	420	420	420	420
610/6	Strength, (kN/m)	40.6	40.4	40.2	40.0	39.8	39.7	39.6	39.5	39.4
	Stiffness, G', (10 ³ N/mm)	424	423	423	423	423	422	422	422	422

Thickness = 0.121 mm										
Support Connection Pattern		Span (mm)								
		3 000	3 150	3 300	3 450	3 600	3 750	3 900	4 050	4 200
610/4	Strength, (kN/m)	39.7	39.6	39.5	39.4	39.4	39.3	39.2	39.2	39.1
	Stiffness, G', (10 ³ N/mm)	421	421	421	421	421	420	420	420	420
610/6	Strength, (kN/m)	42.1	41.9	41.7	41.5	41.3	41.2	41.0	40.9	40.8
	Stiffness, G', (10 ³ N/mm)	424	424	424	424	423	423	423	423	422

Thickness = 0.152 mm										
Support Connection Pattern		Span (mm)								
		3 300	3 450	3 600	3 750	3 900	4 050	4 200	4 350	4 500
610/4	Strength, (kN/m)	41.0	40.9	40.8	40.8	40.7	40.6	40.5	40.5	40.4
	Stiffness, G', (10 ³ N/mm)	422	421	421	421	421	421	420	420	420
610/6	Strength, (kN/m)	43.7	43.5	43.3	43.1	42.9	42.8	42.6	42.5	42.4
	Stiffness, G', (10 ³ N/mm)	425	425	424	424	424	423	423	423	423

76 mm deck - 610 mm wide - 203 mm flute spacing
Support connection: Hilti X-EDN19, X-EDNK22
Side-lap connection: #10 Screws @ 600 mm o.c.
Concrete resistance: 20 MPa Minimum

Limit States Design – FACTORED RESISTANCE
 $\phi = 0.50$
65 mm thick concrete over deck
Concrete density: 2300 kg/m³ Minimum

SDI METHOD – METRIC

Thickness = 0.76 mm										
Support Connection Pattern		Span (mm)								
		2 400	2 550	2 700	2 850	3 000	3 150	3 300	3 450	3 600
610/4	Strength, (kN/m)	39.4	39.3	39.2	39.1	39.1	39.0	39.0	38.9	38.9
	Stiffness, G', (10 ³ N/mm)	422	422	422	422	422	422	422	422	421
610/6	Strength, (kN/m)	41.2	41.0	40.9	40.7	40.6	40.4	40.3	40.2	40.1
	Stiffness, G', (10 ³ N/mm)	425	425	424	424	424	424	424	423	423

Thickness = 0.91 mm										
Support Connection Pattern		Span (mm)								
		2 700	2 850	3 000	3 150	3 300	3 450	3 600	3 750	3 900
610/4	Strength, (kN/m)	39.9	39.9	39.8	39.7	39.7	39.6	39.6	39.5	39.5
	Stiffness, G', (10 ³ N/mm)	423	423	423	422	422	422	422	422	422
610/6	Strength, (kN/m)	41.9	41.7	41.6	41.4	41.3	41.2	41.0	40.9	40.8
	Stiffness, G', (10 ³ N/mm)	425	425	425	425	424	424	424	424	424

Thickness = 0.121 mm										
Support Connection Pattern		Span (mm)								
		3 000	3 150	3 300	3 450	3 600	3 750	3 900	4 050	4 200
610/4	Strength, (kN/m)	41.2	41.1	41.0	41.0	40.9	40.8	40.8	40.7	40.7
	Stiffness, G', (10 ³ N/mm)	424	424	423	423	423	423	423	423	423
610/6	Strength, (kN/m)	43.5	43.3	43.2	43.0	42.8	42.7	42.6	42.5	42.3
	Stiffness, G', (10 ³ N/mm)	427	426	426	426	426	425	425	425	425

Thickness = 0.152 mm										
Support Connection Pattern		Span (mm)								
		3 300	3 450	3 600	3 750	3 900	4 050	4 200	4 350	4 500
610/4	Strength, (kN/m)	42.4	42.3	42.2	42.1	42.1	42.0	41.9	41.9	41.8
	Stiffness, G', (10 ³ N/mm)	424	424	424	424	424	424	424	423	423
610/6	Strength, (kN/m)	45.0	44.8	44.6	44.4	44.3	44.1	44.0	43.9	43.8
	Stiffness, G', (10 ³ N/mm)	427	427	427	427	426	426	426	426	426