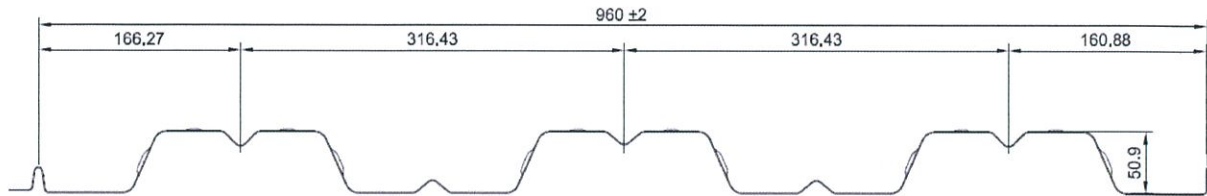
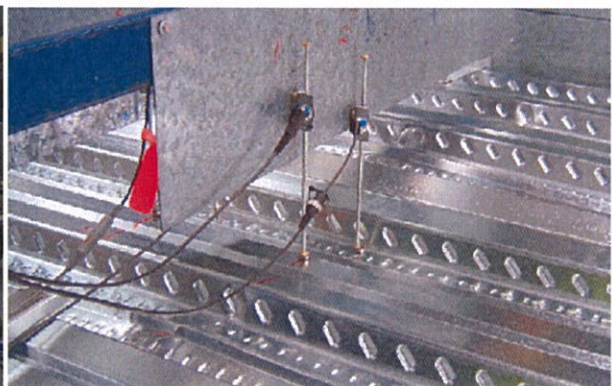


Profile:



1. Limit State Load capacity for Smartdek is provided for 0.70, 1.0 and 1.2 BMT (G550).
2. Tests were carried out with the conditions below:
 - a. Single, double and three spans.
 - b. With and without shear studs welded through pans.
 - c. Different support width.
3. The capacity tables are based on testing carried out at Lysaght's NATA registered testing laboratory by using air pressure rig and cylinder line load rig.
4. The following Code and Standards were referred:
 - a. Technical Note 116 – Design of profiled sheeting as permanent formwork
 - b. BS5950: Part 4: 1994 Structural use of steel work in building Part 4. Code of practice for design of composite slabs with profiled steel sheeting





SMARTDEK

TEST REPORT SUMMARY

PIC/DK/R/296/10/0

Formwork Span 0.7mm 550 MPa

No props

Slab thickness, mm	100	110	120	130	140	150	160	170	180	200	220
Single span, mm	2380	2310	2230	2170	2110	2060	2010	1960	1920	1840	1770
2 spans, mm	2640	2550	2470	2400	2330	2270	2210	2160	2110	2030	1950
3 spans, mm	2640	2550	2470	2400	2330	2270	2210	2140	2080	1960	1870

1 prop

Slab thickness, mm	100	110	120	130	140	150	160	170	180	200	220
Single span, mm	2800	3000	3400	3600	3800	4000	4200	4200	4230	4060	3910
Continuous spans, mm	3400	3800	4000	4400	4600	4540	4430	4330	4230	4050	3860

2 props

Slab thickness, mm	100	110	120	130	140	150	160	170	180	200	220
Single span, mm	2800	3000	3400	3600	3800	4000	4200	4200	4400	4800	5200
Continuous spans, mm	3400	3800	4000	4400	4600	5000	5600	5800	6000	6000	5800

Formwork Span 1.2mm 300 MPa

No props

Slab thickness, mm	100	110	120	130	140	150	160	170	180	200	220
Single span, mm	2800	2780	2700	2620	2560	2500	2440	2390	2340	2260	2180
Continuous spans, mm	3200	3110	3020	2930	2850	2770	2700	2640	2580	2470	2370

1 prop

Slab thickness, mm	100	110	120	130	140	150	160	170	180	200	220
Single span, mm	2800	3000	3400	3600	3800	4000	4200	4200	4400	4800	4750
Continuous spans, mm	3400	3800	4000	4400	4600	5000	5410	5280	5160	4940	4750

2 props

Slab thickness, mm	100	110	120	130	140	150	160	170	180	200	220
Single span, mm	2800	3000	3400	3600	3800	4000	4200	4200	4400	4800	5200
Continuous spans, mm	3400	3800	4000	4400	4600	5000	5600	5800	6000	6000	6000

Formwork Span 1.0mm 550 MPa

No props

Slab thickness, mm	100	110	120	130	140	150	160	170	180	200	220
Single span, mm	2740	2650	2570	2500	2430	2370	2330	2280	2230	2150	2080
2 spans, mm	3410	3320	3230	3150	3080	3000	2930	2850	2790	2670	2570
3 spans, mm	3280	3170	3070	2990	2900	2800	2710	2630	2550	2420	2300

1 prop

Slab thickness, mm	100	110	120	130	140	150	160	170	180	200	220
Single span, mm	2800	3000	3400	3600	3800	4000	4200	4200	4400	4800	5140
Continuous spans, mm	3400	3800	4000	4400	4600	5000	5590	5420	5260	4980	4750

2 props

Slab thickness, mm	100	110	120	130	140	150	160	170	180	200	220
Single span, mm	2800	3000	3400	3600	3800	4000	4200	4200	4400	4800	5200
Continuous spans, mm	3400	3800	4000	4400	4600	5000	5600	5800	6000	6000	6000

Date of first issue: 24 August 2018

Revision: 0



SMARTDEK

TEST REPORT SUMMARY

PIC/DK/R/296/10/0

1. The continuous maximum span is limited to 6000mm.
2. The maximum formwork spans are based on $L/180$ deflection limit and ratio of two adjacent spans equal 1:1.
3. 1kPa live load due to stacked materials is used.

**note: further details refer to Lysaght Smartdek Brochure.*

Prepared by,

Ng Cheah Haur
Product Development Engineer

Approved by,

Gil Amilbangsa
Innovation Manager