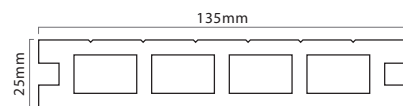


# Technical Data

## MONTANA

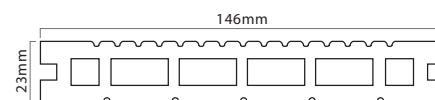
Montana Composite Decking.  
Available in Fired Earth, Anthrazit, Charcoal and Soft Grey.



Test Items	Requirement	Result
Max Load	Mean $\geq$ 3300 Min $\geq$ 3000	Mean 4619 N Min 4409 N
Deflections under 500 N	Mean $\leq$ 2.0mm Min $\leq$ 2.5mm	Mean 1.12mm Min 1.16mm
Swelling and Water Absorption	<b>Mean Swelling</b> $\leq$ 4.0% in thickness $\leq$ 0.8% in width $\leq$ 0.4% in length <b>Water Absorption</b> Mean $\leq$ 7% Max $\leq$ 9%	<b>Mean Swelling</b> $\leq$ 0.15% in thickness $\leq$ 0.04% in width $\leq$ 0.03% in length <b>Water Absorption</b> Mean $\leq$ 0.5% Max $\leq$ 0.54%
Creep Behaviour	<b>Known Span in use</b> Mean $\Delta S \leq$ 10mm Max $\Delta S \leq$ 13mm Mean $\Delta Sr \leq$ 5mm	<b>Span: 400mm</b> Mean $\Delta S \leq$ 3.47mm Max $\Delta S \leq$ 4.14mm Mean $\Delta Sr \leq$ 2.69mm
Joist Spacing	<b>Span: 400mm Residential</b> <b>Span: 300mm Commercial</b>	

## ARIZONA

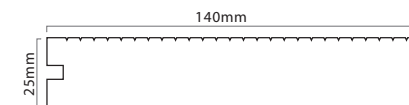
Arizona Composite Decking.  
Available in Soft Grey only.



Test Items	Requirement	Result
Max Load	Mean $\geq$ 3300 Min $\geq$ 3000	Mean 3759 N Min 3595 N
Deflections under 500 N	Mean $\geq$ 2.0mm Min $\geq$ 2.5mm	Mean 1.35mm Min 1.44mm
Swelling and Water Absorption	<b>Mean Swelling</b> $\leq$ 4.0% in thickness $\leq$ 0.8% in width $\leq$ 0.4% in length <b>Water Absorption</b> Mean $\leq$ 7% Max $\leq$ 9%	<b>Mean Swelling</b> $\leq$ 0.09% in thickness $\leq$ 0.02% in width $\leq$ 0.01% in length <b>Water Absorption</b> Mean $\leq$ 1.66% Max $\leq$ 1.82%
Creep Behaviour	<b>Known Span in use</b> Mean $\Delta S \leq$ 10mm Max $\Delta S \leq$ 13mm Mean $\Delta Sr \leq$ 5mm	<b>Span: 400mm</b> Mean $\Delta S \leq$ 5.00mm Max $\Delta S \leq$ 5.17mm Mean $\Delta Sr \leq$ 2.33mm
Joist Spacing	<b>Span: 400mm Residential</b> <b>Span: 300mm Commercial</b>	

## NEVADA

Nevada Composite Decking.  
Available in Soft Grey and Anthrazit.



Test Items	Requirement	Result
Max Load	Mean $\geq$ 3300 Min $\geq$ 3000	Mean 7716 N Min 7514 N
Deflections under 500 N	Mean $\geq$ 2.0mm Min $\geq$ 2.5mm	Mean 0.72mm Min 0.80mm
Swelling and Water Absorption	<b>Mean Swelling</b> $\leq$ 4.0% in thickness $\leq$ 0.8% in width $\leq$ 0.4% in length <b>Water Absorption</b> Mean $\leq$ 7% Max $\leq$ 9%	<b>Mean Swelling</b> $\leq$ 0.02% in thickness $\leq$ 0.02% in width $\leq$ 0.03% in length <b>Water Absorption</b> Mean $\leq$ 0.1% Max $\leq$ 0.1%
Creep Behaviour	<b>Known Span in use</b> Mean $\Delta S \leq$ 10mm Max $\Delta S \leq$ 13mm Mean $\Delta Sr \leq$ 5mm	<b>Span: 350mm</b> Mean $\Delta S \leq$ 0.98mm Max $\Delta S \leq$ 0.62mm Mean $\Delta Sr \leq$ 1.06mm
Joist Spacing	<b>Span: 400mm Residential</b> <b>Span: 300mm Commercial</b>	

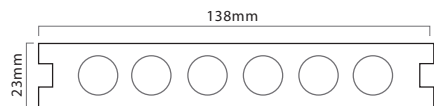
All above tests have been carried out by Intertek Testing Services according to European Standards EN 15534-1: 2014

## Decking Calculator (No. of boards required)

Product	10m <sup>2</sup>	12m <sup>2</sup>	14m <sup>2</sup>	16m <sup>2</sup>	18m <sup>2</sup>	20m <sup>2</sup>	22m <sup>2</sup>	24m <sup>2</sup>	26m <sup>2</sup>	28m <sup>2</sup>	30m <sup>2</sup>	32m <sup>2</sup>	34m <sup>2</sup>	36m <sup>2</sup>	38m <sup>2</sup>	40m <sup>2</sup>	42m <sup>2</sup>	44m <sup>2</sup>	46m <sup>2</sup>	48m <sup>2</sup>	50m <sup>2</sup>
Montana	20	24	28	32	35	39	43	47	51	55	59	63	67	71	75	79	83	87	91	95	99
Arizona	18	22	26	29	33	37	40	44	48	52	55	59	63	66	70	74	77	81	84	89	92
Nevada	19	23	27	31	35	38	42	46	50	54	58	61	65	69	73	77	81	84	88	92	96

## UltraShield® Naturale™

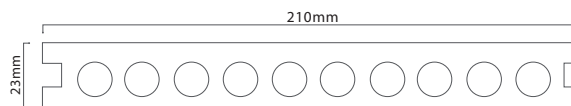
UltraShield Naturale Composite Decking.  
Available in Teak, Silver Grey, Antique, Walnut and Cedar.



Test Items	Requirement	Result
Max Load	Mean ≥ 3300 Min ≥ 3000	Mean 4090 N Min 3866 N
Deflections under 500 N	Mean ≥ 2.0mm Min ≥ 2.5mm	Mean 1.14mm Min 1.19mm
Swelling and Water Absorption	<b>Mean Swelling</b> ≤ 4.0% in thickness ≤ 0.7% in width ≤ 0.3% in length <b>Water Absorption</b> Mean ≤ 7% Max ≤ 9%	<b>Mean Swelling</b> ≤ 2.40% in thickness ≤ 0.06% in width ≤ 0.08% in length <b>Water Absorption</b> Mean 1.9% Max 2.0%
Creep Behaviour	<b>Known Span in use</b> Mean ΔS ≤ 10mm Max ΔS ≤ 13mm Mean ΔSr ≤ 5mm	<b>Span: 350mm</b> Mean ΔS 2.0mm Mean ΔSr 1.5mm
Joist Spacing	<b>Span: 350mm Residential</b> <b>Span: 300mm Commercial</b>	

## UltraShield® Naturale™ Wide Board

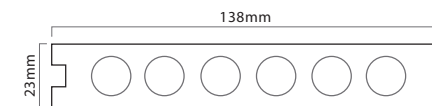
UltraShield Naturale Wide Plank Composite Decking.  
Available in Old Mist and Pebble Grey.



Test Items	Requirement	Result
Max Load	Mean ≥ 3300 Min ≥ 3000	Mean 4090 N Min 3866 N
Deflections under 500 N	Mean ≥ 2.0mm Min ≥ 2.5mm	Mean 1.14mm Min 1.19mm
Swelling and Water Absorption	<b>Mean Swelling</b> ≤ 4.0% in thickness ≤ 0.7% in width ≤ 0.3% in length <b>Water Absorption</b> Mean ≤ 7% Max ≤ 9%	<b>Mean Swelling</b> ≤ 2.40% in thickness ≤ 0.06% in width ≤ 0.08% in length <b>Water Absorption</b> Mean 1.9% Max 2.0%
Creep Behaviour	<b>Known Span in use</b> Mean ΔS ≤ 10mm Max ΔS ≤ 13mm Mean ΔSr ≤ 5mm	<b>Span: 350mm</b> Mean ΔS 2.0mm Mean ΔSr 1.5mm
Joist Spacing	<b>Span: 350mm Residential</b> <b>Span: 300mm Commercial</b>	

## UltraShield® Textured

UltraShield Textured Composite Decking.  
Available in Sapele and Graphite.



Test Items	Requirement	Result
Max Load	Mean ≥ 3300 Min ≥ 3000	Mean 4090 N Min 3866 N
Deflections under 500 N	Mean ≥ 2.0mm Min ≥ 2.5mm	Mean 1.14mm Min 1.19mm
Swelling and Water Absorption	<b>Mean Swelling</b> ≤ 4.0% in thickness ≤ 0.7% in width ≤ 0.3% in length <b>Water Absorption</b> Mean ≤ 7% Max ≤ 9%	<b>Mean Swelling</b> ≤ 2.40% in thickness ≤ 0.06% in width ≤ 0.08% in length <b>Water Absorption</b> Mean 1.9% Max 2.0%
Creep Behaviour	<b>Known Span in use</b> Mean ΔS ≤ 10mm Max ΔS ≤ 13mm Mean ΔSr ≤ 5mm	<b>Span: 350mm</b> Mean ΔS 2.0mm Mean ΔSr 1.5mm
Joist Spacing	<b>Span: 350mm Residential</b> <b>Span: 300mm Commercial</b>	

## Decking Calculator (No. of boards required)

Product	10m <sup>2</sup>	12m <sup>2</sup>	14m <sup>2</sup>	16m <sup>2</sup>	18m <sup>2</sup>	20m <sup>2</sup>	22m <sup>2</sup>	24m <sup>2</sup>	26m <sup>2</sup>	28m <sup>2</sup>	30m <sup>2</sup>	32m <sup>2</sup>	34m <sup>2</sup>	36m <sup>2</sup>	38m <sup>2</sup>	40m <sup>2</sup>	42m <sup>2</sup>	44m <sup>2</sup>	46m <sup>2</sup>	48m <sup>2</sup>	50m <sup>2</sup>
UltraShield Naturale & Textured	20	23	27	31	35	39	43	47	51	55	59	62	66	70	74	78	82	85	90	94	98
UltraShield Wide Board	13	16	18	21	23	26	28	31	34	36	39	41	44	47	49	52	54	57	59	62	65