light reflectance values

Light Reflectance Value (LRV) is the total quantity of visible and useable light reflected by a surface in all directions and at all wavelengths when illuminated by a light source.

LRV is a measurement that tells you how much light a color reflects, and conversely how much it absorbs. LRV runs on a scale from 0% to 100%. Zero assumed to be an absolute black and 100% being an assumed perfectly reflective white.

An absolute black or perfectly reflecting white does not exist in our everyday terms. Approximately speaking, the average blackest black has an LRV of 5% and the whitest white 85%.

The light reflectance values are measured using a spectrophotometer, using the Y-brightness value of the color.

Y-brightness results

	original sample	weathered sample	difference
Charcoal WC99417	5,1	5,06	-0,04
Chestnut WC80019	8	7,86	-0,14
Claret WC3233	5,95	4,8	-1,15
Dolphin WC7896	14,32	14,58	0,26
Dragon Fruit WC4153	9,78	7,53	-2,25
Driftwood WC9405	65,57	53,37	-12,2
Forest WC6346	11,84	11,69	-0,15
Lagoon WC5182	8,94	8,77	-0,17
Mountain WC7897	19,63	20,65	1,02
Natural WC9406	6,64	10,93	4,29
Piglet WC3231	15,48	13,54	-1,94
Poppy WC3232	8,56	7,64	-0,92
Sunflower WC2344	21,13	18,23	-2,9
Sunset WC2343	13,92	10,07	-3,85
Woodland WC6347	12,28	10,28	-2

conclusion

The Accelerated Weathering Test (EN927-6) has a bigger influence on the Y-brightness of vivid colours, while dark colours stay approximately the same.

Natural WC9406 is the only Rubio Monocoat wood cream resulting in a much higher Y-brightness value as it is the only product without pigments. It is therefore more suitable if you wish to create a more weathered appearance.

heat
enhanced
architectural
timber

BSW Timber