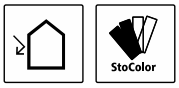
Sto Specification New Zealand

Light Reflectance Value Chart (LRV)

The Light Reflectance Value (LRV) measures the amount of light reflected from a finished surface, measured on a scale for coatings being white approx. 92% and black being approx. 4%.



Exterior Light Reflectance Values (LRV) are used to assess the amount of heat absorbed when the building exterior is exposed to direct sunlight. Dark colours absorb significantly more heat resulting in thermal stress, causing movement and cracking in some substrates. The LRV value is normally stated in the paint manufacturers colour chart.

In evaluating the effect of the colours LRV, the sunlight exposure, substrate and building elements need to be taken into consideration by the colour consultant.

	Min. LRV with Stolit Render or StoColor Maxicryl	Min. LRV with StoColor Dryonic and X-black tints
StoTherm Insulation Systems on Timber or Steel Framing		
SS105 StoTherm Miral Insulated Render System	35%	25%
SS106 StoTherm Armat Insulated Render System	20%	10%
Concrete Block, Precast, Insitu Concrete		
SS205 StoMiral Render System (on stable concrete substrates or garden walls)	15%	10%
SS206 StoArmat Miral Render System	4%	4%
StoTherm Masonry Insulation - Concrete Block, Precast, Concrete, Brick		
SS215 StoTherm Miral Masonry Insulation System	35%	25%
SS216 StoTherm Armat Masonry Insulation System	20%	10%
SS216F StoTherm Armat Masonry Insulation Foundation	20%	10%
SS216R StoTherm Armat Masonry Insulation System Refurbishment	20%	10%
StoLite Stucco (on minimum of 6 mm thick fibre cement sheet)		
SS306L StoLite Stucco – StoArmat Miral Render System on Fibre Cement Sheet	35%*	25%*
StoArmat Render System on Villaboard or EasyLap Panel		
SS306M StoArmat Render System on Villaboard or EasyLap Panel	35%*	25%*
SS306R StoArmat Remedial Render System on Existing Rendered Fibre Cement Sheet	35%*	25%*
Stolit Render Finish on EasyLap Panel		
SS300 Stolit Render Finish on EasyLap Panel	4%	4%

* James Hardie recommends a minimum LRV of 40% for coatings over the EasyLap Panel. Colours selected below this limit may affect any warranties offered by James Hardie.

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StoStucco Render System (on Stainless Steel Lath)		
SS406 StoArmat Render System on Stainless Steel Lath	20%	10%
SS405RC Roughcast Render System on Stainless Steel Lath	35%	25%
Sto Render System over StoArmour Panel Facade		
SS505 StoMiral Render System on StoArmour Panel	15%	10%
SS506 StoArmat Miral Render System on StoArmour Panel	4%	4%
Sto Render Systems on Brick Veneer		
SS605 StoMiral Render System on Brickwork	15%	10%
SS606 StoArmat Miral Render System on Brickwork	4%	4%
Sto Render System on AAC Block		
SS705 StoMiral Render System on AAC Block	15%	10%
SS706 StoArmat Miral Render System on AAC Block	4%	4%
Sto Render System on EPS Block		
SS706 StoArmat Miral Render System on EPS Block	20%	10%
StoArmat Render System on StoVentec		
SS1100 StoArmat Render System on StoVentec	4%	4%