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PRESSALIT CARE INFO C-355-1

Subject:	**LRV measurements updated for PLUS colours**	Date:	**19-12-2018**
		Page(s):	**2**
		Made by:	**TRD/FGY**

C INFO 355, which was sent out in 2013, unfortunately contained incorrect values for some of the PLUS colours. These values have now been verified and you will find the correct values below.

Light Reflectance Value (LRV) is a measurement that tells you **how much light a colour reflects**, and conversely how much it absorbs. LRV runs on a scale (Y) from 0% to 100%, with 0% assumed to be an absolute black and 100% being an assumed perfectly reflective white.

The measurement is most commonly used by architects and design **professionals to ensure optimal contrast between adjacent surfaces to ensure accessibility to people with impaired vision**. It is accepted that most registered blind people still retain some vision in colour. Only a small percentage, less than 5%, see nothing at all and even people in this category usually have a degree of sensitivity to light and shade, so there is great potential to help the visually impaired by contrasting colours.

Adequate visual contrast is said to be provided if the Light Reflectance Values (LRV) of the contrasting areas differ by at least 30 points. So, it is the difference between two Y values that needs to be min 30 (some even say 20).

See page 2…

Which of the PLUS colours "contrast " each other adequately

LRV		White 000 S0502-Y	Pale grey 182 S3000-N	Lime green 277 S1075 G50Y	Orange 026 S1080-Y60R	Anthracite 112 S6500-N	Red 035 S4050-R	Dark blue 108 S8010-R70B
	Y	73	46	42	26	16	8	6
White 000 S0502-Y	73	0	27	31	47	57	65	67
Pale grey 182 S3000-N	46	27	0	4	20	30	38	40
Lime green 277 S1075 G50Y	42	31	4	0	16	26	34	36
Orange 026 S1080-Y60R	26	47	20	16	0	10	18	20
Anthracite 112 S6500-N	16	57	30	26	10	0	8	10
Red 035 S4050-R	8	65	38	34	18	8	0	2
Dark blue 108 S8010-R70B	6	67	40	36	20	10	2	0

=> 30 points = adequate visual contrast
21-29 points = some visual contrast
=<20 points = not sufficient visual contrast