LRV Light Reflectance Values

A Grestec Resource for Inclusive Design & Compliance



Grestec

grestec.co.uk

LRV Technical Specification Guide

A Grestec Resource for Inclusive Design & Compliance

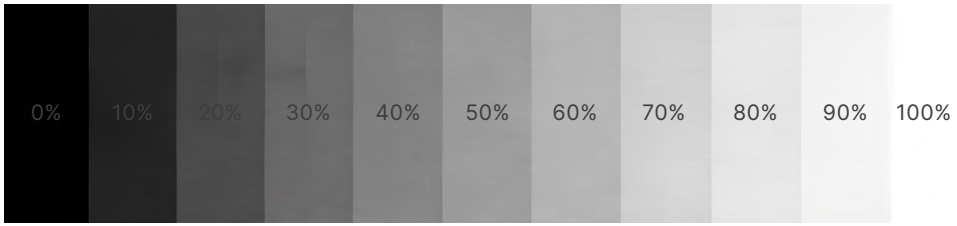
1. Understanding Light Reflectance Values

Light Reflectance Value (LRV) is a metric measuring the percentage of visible and usable light a surface reflects. It is critical for determining how light or dark a surface appears, directly influencing design, visibility, and safety. LRV is measured on a scale of 0 (perfect absorbing black) to 100 (perfect reflecting White). In reality you never find these perfect objects - a bright white would typically have a result of an LRV of 85.

2. Regulatory Compliance

THE 30-POINT RULE

In accordance with the Equality Act 2010 and BS 8300-2:2018, public buildings and workplaces must facilitate safe navigation for visually impaired individuals. A minimum contrast of 30 LRV points between adjacent surfaces (e.g., floors to walls) is required.



LRV scale

Grestec

Why Contrast Matters

The majority of visually impaired individuals retain some colour vision or sensitivity to light and shade; total blindness is rare. Specifying a 30-point LRV contrast between adjacent surfaces is therefore a critical step in ensuring accessibility and preventing discrimination.



0345 130 2241 | sales@grestec.co.uk | www.grestec.co.uk

LRV Technical Specification Guide

A Grestec Resource for Inclusive Design & Compliance

3. Application Checklist

- **Door Faces & Frames to Walls:** Clear contrast to identify entry and exit points.
- **Floors to Walls:** Distinguishing boundaries for safe movement.
- **Ceilings to Walls:** Enhancing spatial orientation.
- **Handrails to Walls:** Providing visual cues for support in corridors and stairs.
- **Sanitary Fittings:** Ensuring location visibility in public restrooms.
- **Stair Treads:** Minimum 55mm contrasting strip across the front edge.

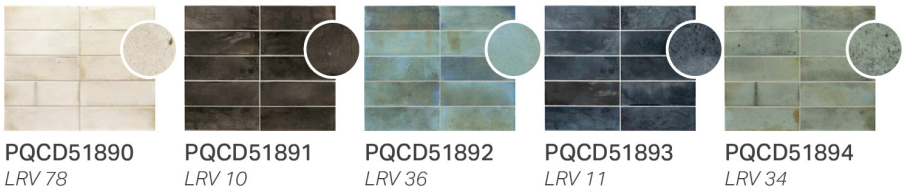
4. Calculation Methodology

To verify compliance for your project, apply this contrast formula:

Contrast = | LRV1- LRV2 |

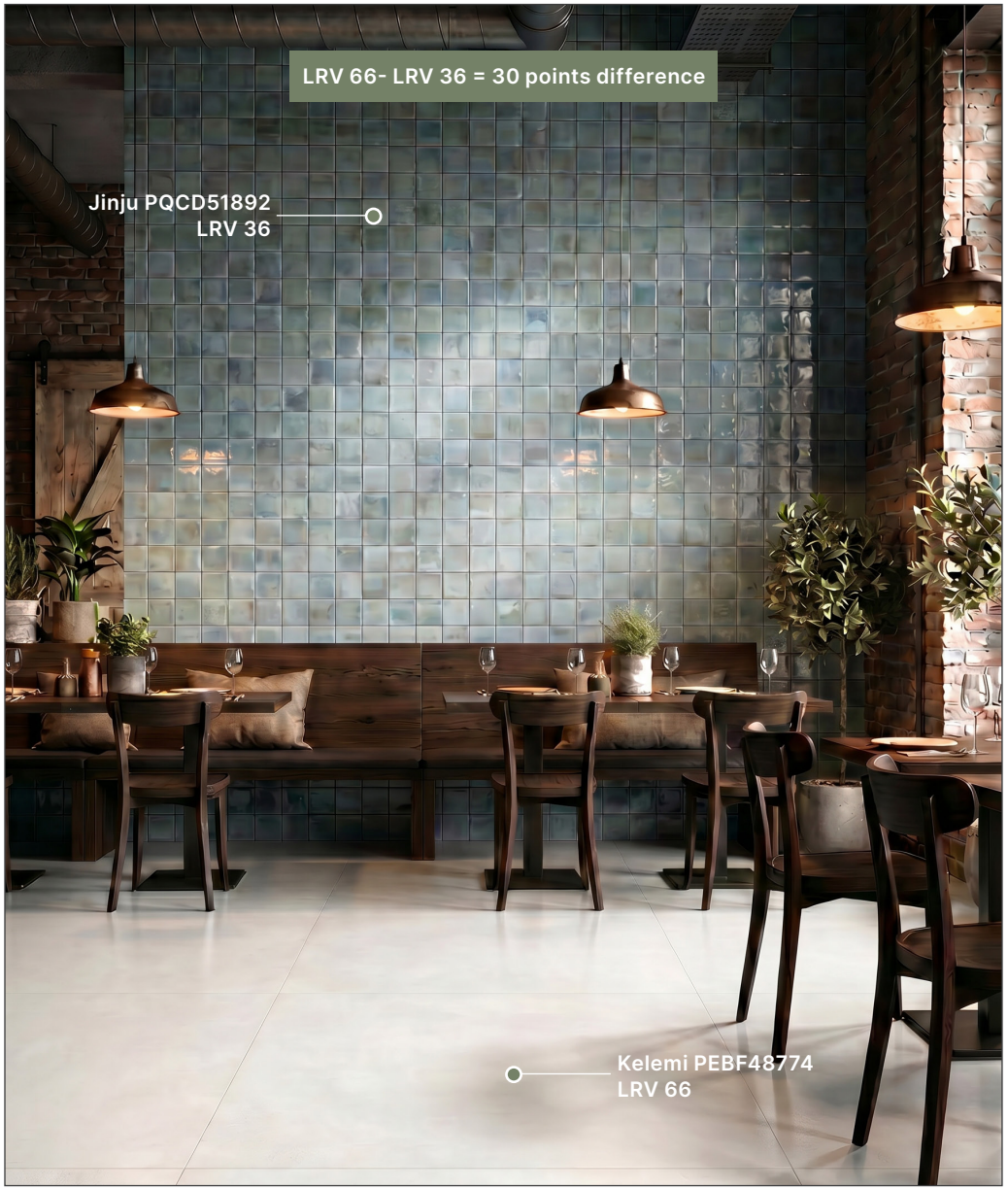
5. Grestec Support & Data

Grestec facilitates seamless specification by providing verified LRV ratings on all technical datasheets. Below is a sample from our Jinju collection:



PQCD51890	PQCD51891	PQCD51892	PQCD51893	PQCD51894
LRV 78	*LRV 10*	*LRV 36*	*LRV 11*	*LRV 34*

Grestec



0345 130 2241 | sales@grestec.co.uk | www.grestec.co.uk