

# DURASAFE® TECHNICAL DATA SHEET

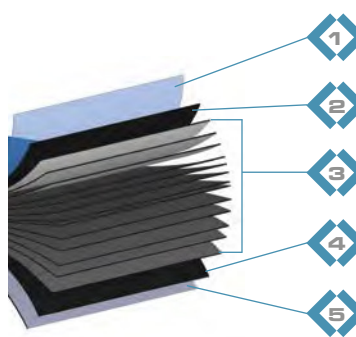


## Technical Details of our Duracube® 13mm Compact Laminate

Sheet Size	3670 x 1840mm
Sheet Thickness	13mm
Sheet Finish	Double sided matt finish
Applications	Shower & Toilet Partitions, Table Tops, Lockers, Kitchen/Bathroom Benchtops & Cabinet Panels, Educational Furniture, Bench Seating  Other sheet sizes, thicknesses and finishes available by special order.

## What is our Duracube® 13mm Compact Laminate made of?

### DURASAFE® PROTECTION LAYER BY LAYER BREAK-DOWN

	OTHER COMPACT LAMINATES	DURASAFE® COMPACT LAMINATE
 <p>1 Top Layer Tissue Paper</p>	Treated with Melamine Resin only	Treated with Melamine Resin + High-efficiency Anti-Microbial Agents
2 2nd Layer Decorative Design Paper	Treated with Melamine Resin only	Treated with Melamine Resin + High-efficiency Anti-Microbial Agents
3 Layers Kraft/Brown Paper	Treated with Phenolic Resin	Treated with Phenolic Resin + High-efficiency Anti-Microbial Agents
4 2nd Last layer Decorative/Design Paper	Treated with Melamine Resin only	Treated with Melamine Resin + High-efficiency Anti-Microbial Agents
5 Bottom Layer Tissue Paper	Treated with Melamine Resin only	Treated with Melamine Resin + High-efficiency Anti-Microbial Agents

As shown above, Compact Laminate is made up of around 80 sheets of kraft paper that has been impregnated with phenolic resin, then compressed at over 180 degrees to form a solid 13mm Compact Laminate.

Compact Laminate is a cost effective, durable, low maintenance material with a long-life cycle. Thanks to every layer of our Duracube® Compact Laminate having antibacterial, antifungal and antiviral properties, it's the exact solution you're after for any project!

See more info online: [www.duracube.com.au/durasafe-3000-series](http://www.duracube.com.au/durasafe-3000-series)



## What warranty does the Durasafe® Compact Laminate have?

Duracube's wet area joinery solutions are all made in-house to our stringent quality standards. Our in-house quality and supply chain control means we're not restricted by and reliant on third parties supplying us product for your bathroom – *we can always deliver on our promises.*

**10** | **YEAR**  
LIMITED  
WARRANTY

**We guarantee a 10 year limited warranty for our 13mm compact laminate product solutions.**

## Do you have LRV ratings on all Durasafe® Compact Laminate colours?

Yes, absolutely. Light Reflective Value (or LRV) is a crucial consideration in commercial bathrooms around the world. LRV is “a measure of visible and usable light that is reflected from a surface when illuminated by a light source.” This difference in visual contrast makes it easier for the elderly and those with visual impairments to see and distinguish between the two objects. We've made it easy for you to calculate the LRV rating for your chosen Durasafe® colours.



Visit our LRV Calculator online: [www.duracube.com.au/lrv](http://www.duracube.com.au/lrv)

## Care and Maintenance of Durasafe® Compact Laminates

The daily maintenance of Durasafe® Compact Laminates can be carried out easily using a soapy sponge or soft cloth. For more persistent marks and stubborn stains, use an appropriate non-scratch liquid or cream, or organic solvent (preferably white spirit or acetone), rinsing well with warm water and ensure all residue is wiped away with an all-purpose paper towel or lint-free cloth. Proprietary window cleaners are excellent for avoiding drying marks and can be used safely.

You should never use abrasive products or cleaners (including scouring pads and powders, steel wool, black soap) or bleaching agents, wax furniture polishes and cleaning products with strong acid or alkali bases.

Any spots of glue must be removed immediately. Neoprene or silicone joint spots must be removed with the appropriate solvent and vinyl glue with hot water. Residual flakes of glue may be removed with acetone.

## Handling and Storage of Durasafe® Compact Laminates

Compact Laminate is a heavy product. Where possible, for vertical moving, we recommend mechanical lifting. For horizontal moving, we recommend a purpose-built panel trolley be used. Care should be taken when handling Durasafe® Compact Laminates to avoid accidental breakages and damage. When loading and unloading, sheets should be lifted and not slid. Care should be taken to avoid abrasion between decorative surfaces.

When transporting stacks of sheets with mechanical handling vehicles, suitable sizes and strength pallets should be used. If panels are covered in a protective film, this should be left on as long as possible after installation, but for no more than two months. It is recommended to store Durasafe® Compact Laminate panels flat face-to-face in a temperature range between 10 and 30°C and in a humidity of between 40% and 60%.

Compact Laminate should never be stored standing up (i.e., leant up against a wall). Instead, it should be stored on a flat, evenly supported surface. If Compact sheets are not stored flat for any length of time, deformation can occur which is almost impossible to correct, particularly with the thicker boards. Panels should be allowed to acclimatise and stabilise before fabrication for a minimum of 48 hours.

## Technical Specifications vs Standards

Properties	Unit	Specified values as per DIN EN 438,BSEN & IS 2046:1995	Durasafe® Typical Value
Thickness tolerance	mm	13.0 ± 0.5	13.0 ± 0.28
Resistance to dry heat at 180°C	Grade	Not worse than 4	5
Resistance to surface water	Rev	350 (Min)	400
Resistance to immersion in boiling water a) Mass Increase b) Thickness c) Appearance	% % Grade	2.0 (Max) 2.0 (Max) Not worse than 4	0.5 0.7 5
Dimensional stability at deviated temperature a) Longitudinal b) Transverse	% %	0.06 (Max) 0.53 (Max)	0.03 0.12
Dimensional stability at 20°C c) Longitudinal d) Transverse	% %	0.16 (Max) 0.28 (Max)	0.08 0.13
Resistance to impact by a large diameter ball a) Drop height b) Diameter of indentation	mm mm	1800 10 (Max)	2000 2
Resistance to scratching	N	2.0 (Min)	2.5
Resistance to staining a) Group 1 & 2 b) Group 3 & 4	Grade Grade	Not worse than 5 Not worse than 4	6 5
Resistance to colour change a) In xerox arc light b) In enclosed carbon arc light	Grade Grade	Not worse than 6 Not worse than 5	6 5
Resistance to cigarette burns	Grade	Not worse than 3	4
Resistance to steam	Grade	Not worse than 4	5
Resistance to crazing	Grade	Not worse than 4	5
Resistance to moisture	Grade	Not worse than 4	5
Flexural modulus	Mpa	1000 (Min)	11000
Flexural strength	Mpa	100 (Min)	120
Tensile strength	Mpa	70 (Min)	90
Density	g/cm <sup>3</sup>	1.35	1.40
NCC/BCA Fire Group Number when tested in accordance with AS3837	Group	3	3

For further information and pricing call

**1300 DURACUBE (or 1300 387 228) or visit [www.duracube.com.au](http://www.duracube.com.au)**



The mark of responsible forestry



**Duracube®**  
Specialists in Wet Area Solutions