



# kradal™ SMART FOAM

IMPACT ABSORBING FLOOR

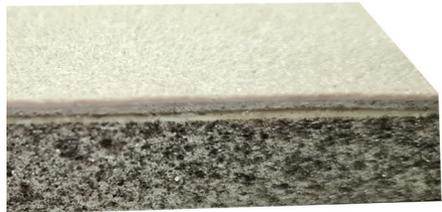
Kradal™ Flooring is a trademark of  
Classic Coachworks Pty. Ltd.

14A Hearne Street  
Mortdale NSW 2223 AUSTRALIA  
T: +612 95336565  
E: [info@kradal.com.au](mailto:info@kradal.com.au)  
[www.kradal.com.au](http://www.kradal.com.au)





## An innovative solution for injury prevention



## Impact Testing Results

Comparison Material	Percentage Reduction in Peak Force
Bare Concrete	About 65%-80%
Bare Wood	About 65%-80%
Carpet & Underlay Over Concrete	About 20%-40%
Carpet & Underlay Over Wood	About 20%-40%

## Research into the Efficacy of Kradal<sup>TM</sup> Flooring

### **“Investigating the Fall-Injury reducing effect of Impact absorbing flooring among female nursing home residents: initial results”**

Published in The Journal of Injury Prevention by BMJ Publishing Group.

#### Summary

Kradal was installed in a nursing home in Sweden in one of six wards plus hallways and a communal room. Over a period of thirty months, 254 falls occurred on regular flooring and 77 falls on Kradal. The injury per fall rate was about 30% for regular flooring and about 17% for Kradal<sup>TM</sup> Flooring. Adjusting this data for covariates (such as the bone density of the person who fell), Kradal resulted in about a 60% reduction in injuries compared to regular flooring.

## **“Modelling the cost-effectiveness of impact-absorbing flooring in Swedish residential care facilities”**

Published in the European Journal of Public Health by Oxford University Press.

### Summary

It is well known that fall-related injuries among the elderly, especially hip fractures, lead to high levels of morbidity and mortality as well as resulting in a large financial cost on the health care system. A model was created to assess the cost–benefit of Kradal and this model was tested for probabilistic sensitivity. The model concluded that Kradal reduces costs and increases QALY’s (quality-adjusted life years) compared to using a standard flooring. Even allowing for uncertainties, 60% of those cases indicate Kradal is a cost saving compared to standard flooring and an additional 20% that it has a cost per QALY below commonly used thresholds. The model finds that using Kradal as a dominant strategy at a societal level can save resources and improve the healthcare of the aged.

## Nature of Falls

Each year in Australia, an estimated 1 in 3 people aged 65 years and above experience falls. Adults in residential aged care were 5 times more likely to experience a fall compared to community-dwelling elderly people.

## Cost of Falls

Fractures are a common serious injury resulting from a fall. In Australia, hip and thigh fracture are most common, accounting for 32.5% of cases, followed by spine and pelvis fracture at 12.5%, elbow and forearm fractures at 12%, shoulder and upper arm fracture at 11.4%, thorax fracture at 10.3%, knee and lower leg fracture at 9%, and head fracture at 7%.

These fractures result in exceptionally high treatment costs. On average, treatment for these fractures cost about \$15,000, with the exception of hip fractures which cost about \$30,000. These figures are inclusive of the surgeon's bills, accommodation, theatre, and medical device fees.



## Conclusion

With worldwide shortages of healthcare staff, such as Doctors, Nurses etc and also shortages of healthcare resources such as hospital beds, it is easier and better to invest in injury prevention technology such as Kradal, rather than continue to add pressure to health systems.



# Kradal<sup>™</sup> Flooring

## Key Points



Installing Kradal<sup>™</sup> Smart Foam Impact Absorbing Flooring will make you a market leader in Caring for our Elders.



Kradal<sup>™</sup> is an impact absorbing flooring system that significantly reduces the impact force of falls and thereby reduces the risk of fall-associated injuries.



Kradal<sup>™</sup> uses a smart foam that is stable to walk on and use devices on, such as those usually used in care facilities (such as patient's beds, wheelchairs, walkers, bed hoists etc), while becoming impact absorbent when you fall on it.



Kradal<sup>™</sup> smart foam underlay can be installed under most vinyl and linoleum floor coverings, and in conjunction with water traps, covings, wet areas etc, using standard installation procedures . This means you get to choose the vinyl / linoleum you want and just ask for Kradal<sup>™</sup> to be installed at the same time. This gives you the look you want and the piece of mind of Kradal<sup>™</sup>



Kradal<sup>™</sup> smart foam underlay not only protects people, but also the environment. It is 100% recyclable with approximately 10% of its total composition being sourced from renewable plant based materials.



# kradal<sup>TM</sup>

F L O O R I N G

Please contact us if you have any questions or if you would like to see a demonstration.

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