

## Evaluation Report CCMC 13436-R

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### ***DRICore***

#### **1. Opinion**

It is the opinion of the Canadian Construction Materials Centre (CCMC) that “DRICore” when used as a panel underlay in accordance with the conditions and limitations stated in Section 3 of this Report, complies with the National Building Code 2005:

- Clause 1.2.1.1.(1)(b), Division A, as an alternative solution that achieves at least the minimum level of performance required by Division B in the areas defined by the objectives and functional statements attributed to the following applicable acceptable solutions:
  - Sentence 9.23.14.2.(1), Material Standards
  - Article 9.30.1.3., Sleepers
  - Subsection 9.30.2., Panel-Type Underlay

This opinion is based on CCMC's evaluation of the technical evidence in Section 4.1 provided by the Report Holder.

#### **2. Description**

“DRICore” is a panel underlay that consists of a tongue-and-groove wafer core with a sanded and sealed surface. The panel is glued to a dimpled, high-density polyethylene moisture barrier. The panel is to be used over concrete floors as a subfloor for below-grade and slab-on-grade construction.

**Dimpled polyethylene moisture barrier**

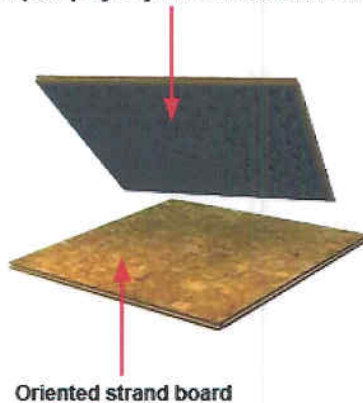


Figure 1: "DRICore"

### 3. Conditions and Limitations

CCMC's compliance opinion in Section 1 is bound by the "DRICore" being used in accordance with the conditions and limitations set out below.

- The product should not be used on floors subjected to flooding or repeated wetting.
- The product shall be installed in accordance with the "DRICore" Subfloor System Installation and Planning Guide.
- For ceramic tile installations, a minimum 6.4 mm thick fiber-reinforced gypsum board underlayment is required.
- Access to floor drains or clean-outs should be maintained and not restricted.
- The product packaging must be clearly identified with the CCMC 13436-R.

### 4. Technical Evidence

CCMC's Technical Guide for "DRICore" sets out the nature of the technical evidence required by CCMC to enable it to evaluate a product as an acceptable or alternative solution in compliance with the NBC 2005. The Report Holder has submitted test results for CCMC's evaluation. Testing was conducted at independent laboratories recognized by CCMC. The corresponding test results for "DRICore" are summarized below.

#### 4.1 NBC 2005 Compliance Data for "DRICore" on which CCMC Based its Opinion in Section 1

##### 4.1.1 Material Requirements

Table 4.1.1.1 Physical Property of Polyethylene Moisture Barrier

Property	Units	Requirement	Result
Deformation under compressive load	mm	$\geq 3$ mm @ 65 kPa	3.77

Table 4.1.1.2 Physical Properties of Panel Underlay

Property	Units	Requirement	Result
Resistance to fungus	-	Report	Light stain on wood, no stain on plastic
Linear expansion @ 50% to 90% RH	%	$\leq 0.2$	0.051
Edge thickness swelling	%	$\leq 1$	12 <sup>(1)</sup>

Note to Table 4.1.1.2:

<sup>(1)</sup>Sample was submerged in water for 24 hours.

#### 4.1.2 Performance Requirements

**Table 4.1.2.1 Concentrated Loadbearing Strength and Impact Load Results**

Property	Units	Requirement	Result
Concentrated loadbearing strength • Size of indentation after 1 hour recovery time	mm	$\leq$	0.075
Hard impact • @ 5.4 N·m • @ 10.9 N·m	mm N/A	Indentation $\leq$ 1 Minimum average failure mode	Negligible No failure observed
Soft impact • @ 10.2 N·m • @ 20.4 N·m	N/A N/A	No damage Minimum average failure mode	Negligible No failure observed

Report Holder Kruger Inc.  
2311 Royal Windsor Dr, Unit 2  
Mississauga, ON L5J 1K5  
Tel: 905-403-0425  
Fax: 905-403-0426

Plant(s): Mississauga, ON

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