

Evaluation of slipperiness of WPC-Decking according to EN 15534-4

Scope

Slipperiness is the property of a floor surface, which characterises how easy human beings can slip during walking. Slipperiness of decking boards made from WPC is evaluated according EN 15534-4 and EN 15534-1. The standard EN 15534-4 requires a minimum slip resistance of ≥36 µ.

Client

Alessandro De Rinaldis; IDECK s.r.l. S.S. Cassia Km 62,200 01019, Vetralla; Italy

Material:

Material is a WPC-decking board in form of a hollow profile. Product name from IDECK is "DURO".



Figure 1: Example of WPC decking profile DURO.

Methods:

Test is designed according EN 15534-4 chapter 4.4 (method "a" from table 1) for decking boards carried out according EN 15534-1 chapter 6.4.2. General principle is pendulum, which slides over the wet specimens surface and the resistance against sliding is measured. 5 replicates and 3 measurements each replicate are used. Hardness of slider was 55.



Results:

Results are summarised in table 1. All replicates exhibited higher values as required from EN 15534-4. Therefore the material passes the test regarding slipperiness.

direction	mean value [μ]	standard deviation [μ]	requirement [µ]	evaluation
extrusion	60	4,1	≥36	pass
perpendicular to extrusion	58	3,7	≥36	pass