

Class 4

Foam for non specific customers or markets.
Distribution not limited.

re-bounce® uni F 82.16

published on 09/02/2010

rev. 05

Product description

re-bounce® uni F 82.16 is a shock absorbing underlay for artificial grass. The product consists mainly of polyurethane flexible foam, which has an open-cell structure.

Technical specifications

Properties	Specifications	Unit	Test method
Foam properties			
Density	250 ± 15 %	kg/m³	ISO 845
CDH-40%	> 90	kPa	ISO 3386
Ultimate Elongation (ER)	TV 50	%	ISO 1798
Tensile Strength (RR)	> 160	kPa	ISO 1798
Tear resistance (TR)	> 5.0	N/cm	ISO 8067
Functional properties			
Dimensional stability	PASS*	%	EN 13746
Water permeability	PASS*	cm/h	pr EN 12616
Thickness 14 mm			
Shock absorption	TV 51	%	EN 14808
Vertical deformation	TV 5.3	mm	EN 14809
Energy restitution	TV 43	%	-
Thickness 12 mm			
Shock absorption	TV 48	%	EN 14808
Vertical deformation	TV 4.5	mm	EN 14809
Energy restitution	TV 45	%	-
Thickness 10 mm			
Shock absorption	TV 44	%	EN 14808
Vertical deformation	TV 3.9	mm	EN 14809
Energy restitution	TV 47	%	-
Thickness 8 mm			
Shock absorption	TV 37	%	EN 14808
Vertical deformation	TV 3.1	mm	EN 14809
Energy restitution	TV 54	%	-
Thickness 6 mm			
Shock absorption	TV 30	%	EN 14808
Vertical deformation	TV 2.3	mm	EN 14809
Energy restitution	TV 59	%	-
Cylindrical block, peeled to rolls			
Production Plants : Langeac (France) & Wijchen (The Netherlands)			

The foam properties are typical values provided by our internal control system.

TV : Target values - only for information purposes

* FIFA Quality Concept : Handbook of Requirements for Football Turf

Research for the suitability of a foam layer for use in sport constructions at ISA Sport Innovation & Quality.

Based on the material characteristics following foam layers are suitable for use in sport constructions :

°re-bounce uni F 82.16 -12mm : Project number : 25 080104 May 2008

°re-bounce uni F 82.16 -14mm : Project number : 25 080259 March 2009

Strengths

- * excellent shock absorption and ball rebound.
- * good dimensional stability.
- * ageing resistant :
 - the shock absorbing properties remain constant in time.
 - the foam does not rot nor pulverise.
- * good water permeability.
- * very easy to install.
- * widths of > 2 m are possible (only for blocks produced in Langeac)

signature of responsible - effective from date of issue

P. Tytgat




For more information, please contact

Recticel Composite Foams

www.recticel.com

www.re-bounce.com

info@re-bounce.com



a black area indicates the parameters which have modified versus previous edition