

Play to win

PRODUCT INFO
DESSO CHALLENGE PRO²



“Recent years have seen Desso Challenge Pro firmly establish its reputation amongst European clubs as the best artificial grass on which to play football.”

The basis of this reputation with footballers is the surface's consistent playing characteristics and its ability to retain reliable ball roll, grip and bounce in the long-term, throughout the field. Furthermore, the skin-friendly nature of the Desso Challenge Pro system is also a highly favoured feature.

Our challenge? To improve even the best

Desso Sports Systems is not a company that rests on its laurels. Having created such a great football surface, we set about making it even better. The player's needs were the starting point. Working together with the scientists from Gent University, Desso Sports Systems has enhanced the fibre at the heart of the Desso Challenge Pro system to create Desso Challenge Pro². The fibre improvements have led to the reduction in the frictional heat produced during sliding tackles. Desso Sports Systems and Gent University have been able to quantify the improvements by developing a new sliding tackle test method that can measure the heat created.

The new standard in fibre quality

An added bonus is that the adjustments to the fibre compound not only generate less frictional heat during tackles, but also improve the feel of the artificial grass. However, Desso Challenge Pro² retains the consistent playing characteristics that footballers love.

Desso Challenge Pro²

Unique fibre characteristics

- fibre upgrade with latest polymer technology
- unique monofilament guarantees pile recovery - it always springs back into place
- less abrasive feel to fibre

Preservation of playing quality

- uniform ball roll over the entire field
- natural ball bounce
- the same playing characteristics, even the areas of heavy wear

Improved sliding characteristics ⁽¹⁾

- new compound reduces frictional heat during sliding tackle
- frictional heat is 35% less than other monofilament fibres
- reduced heat build-up ensures more natural sliding tackles

⁽¹⁾ scientifically proven with new sliding test method



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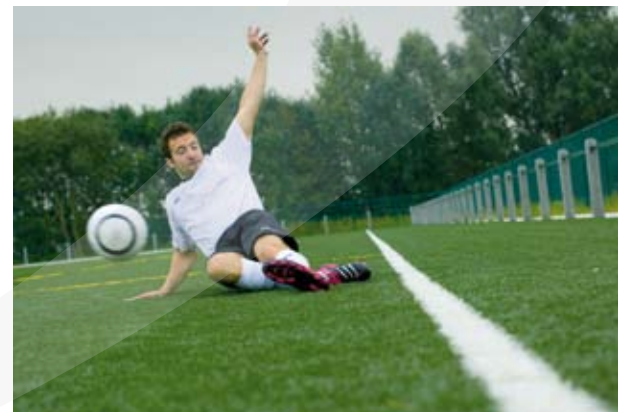
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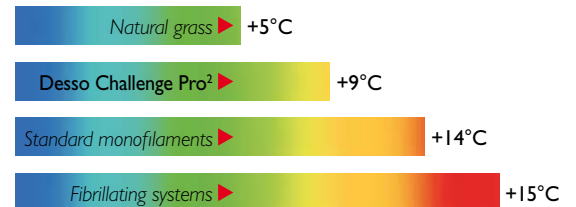


Technical specifications **Desso Challenge Pro² 40 - 50 - 60**

Description	Reference	Specification
Production Method	DIN 61151	Tufted (straight) cutpile
Pile Component	DIN 61151	straight non-fibrillating fibre (8 monofilaments each 210µ thickness) 100% polyolefin, UV resistant, 12100 dtex
Coating / secondary backing	DIN 61151	Waterpervious SBR Latex
Primary Backing	DIN 61151	Polypropylene and Polyester woven + fleece
Pile Height above backing		40 mm - 50 mm - 60 mm
Total thickness		42 mm - 52 mm - 62 mm
Pile Gross Weight		Ca. 970 g/m ² - Ca. 1195 g/m ² - Ca. 1420 g/m ²
Primary Backing Weight		215 g/m ²
Weight coating		Ca. 1100 g/m ²
Total Weight	DIN 53854	Ca. 2285 g/m ² - Ca. 2510 g/m ² - Ca. 2735 g/m ²
Gauge		3/4"
# Tufts	ISO 1763	Ca. 160/m
# Knots	ISO 1763	Ca. 8559/m ²
# Filaments (# piles)		Ca. 136944/m ² (17118/m ²)
Width		5 m
Roll lenght		Max. 75 m
Colour		Green
Marking lines		White/yellow
Total Inll Height		Ca. 25 mm - Ca. 35 mm - Ca. 45 mm
Type of Inll		Quartz sand (Roundness > 80%): 0,2 - 0,8 mm Rubber
Inll Weight		Depends on subbase, use of shock absorbing layer and type of inll



Heat build-up during sliding



A few references



Desso Sports artificial turf should be installed according to Desso Sports Systems installation instructions. Maintenance is the basis for retaining sportfunctional properties and appearance level.

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