

## STATEMENT HOCKEY

Dear Valued Customer,

Herewith we would like to inform you of the recommended installation guidelines for the ProGame cross-linked polyethylene foam shock pads for Hockey application.

At the beginning of 2012 the Dutch Hockey Association "KNHB" decided to fix all non filled and semi filled artificial turf systems on the edges. The decision was taken after some experiences with non filled and semi filled artificial turf systems which shrunk in all directions. Up to now it has not been clarified the cause of this phenomena, which gives gaps on the edges of the pitch. In case there is a gap between the turf and the edge, the pitch cannot be certified FIH.

By fixing the artificial turf systems, the final result will be guaranteed.

Trocellen GmbH, manufacturer of the ProGame shock pads will follow the proposal from KNHB to fix all kinds of hockey turfs on the edges (examples on the second page).

This statement is for information purposes only and Trocellen GmbH can in no way be held responsible or liable for any damages related to the installation by customers of ProGame shock pads. Customers must ensure that, while installing artificial turf systems, they adhere to all applicable laws and regulations at all times. This statement reflects our understanding of the above installation proposals at the date of publication.

Please do not hesitate to contact us if you have any questions or require further assistance.

Best regards,

i.V. Luca Girelli Head of Business Unit ProGame i.A. Björn Hammel Application Engineer ProGame

### Attachments:

- Pictures of possible fixing solutions

- NEN (Dutch Norm Institute) letter concerning hockey turf fixing

- Translation of the NEN letter



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**Examples of Hockey Turf fixing** 



#### **MEMO**

NEN

AUTEUR DATUM PAGINA

Jolien van Lokven 2012-03-20 1/1

ONDERWERP

Agendapunt 6: semiwatervelden - inklemming

Nadat van verschillende leden van de werkgroep kanttekeningen zijn geplaatst ten aanzien van het inklemmen van semi veldenvelden.

In plaats van niet in te klemmen en eventuele correcties pas uit te voeren als teveel krimp ontstaat en veld niet meer aan de normen voldoet, gaat nu het uitgangspunt in werking dat ingeklemd moet worden totdat bewezen is dat het niet noodzakelijk is. De KNHB onderschrijft deze keuze volledig.

Het is inderdaad spijtig te moeten vaststellen dat we op een genomen beslissing moeten terug komen: maar beter ten halve gekeerd dan ten hele gedwaald.

Er zijn weliswaar een aantal argumenten en opmerkingen gemaakt, maar deze weerleggen niet de technische uitspraken van de subwerkgroep, die we als WG aangewezen hebben om onderzoek in deze materie te doen.

Daarom zal onderstaand per direct ingaan:

Het blijkt in de praktijk dat semi watervelden gebouwd op schuim na verloop van tijd problemen met krimp geven.

Dit is duidelijk waarneembaar langs de randen van het veld Langs deze randen ontstaan openingen van meer dan 2 cm. Dit is een onwenselijke situatie.

De KNHB verlangt dan ook bij toepassing van schuim dat het veld aan de vier randen ingeklemd wordt op een gelijke wijze zoals dat bij watervelden is voorgeschreven (per 15 februari 2012)

Een dergelijk systeem kan gebouwd worden zonder inklemming rondom, indien aangetoond is cq kan worden dat krimp, zoals hierboven beschreven, niet optreedt.

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## STATEMENT HOCKEY – Translation of the letter of NEN

Agenda point 6: Semi-filled artificial turf systems - Fixing

After receiving comments from the members of the working group concerning fixing of semi-filled artificial turf pitches the following has been decided.

Until further experiences have been verified that semi-filled artificial turf systems built with pre fabricated shock pads (especially foam) no longer shrink then all semi-filled and non-filled artificial turf systems have to be fixed around the edges to avoid possible problems. The decision to fix the artificial turf was necessary as some pitches failed the requirements of the KNHB (Royal Dutch Hockey Association) after shrinkage. The KNHB completely supported this decision.

It was, however, unfortunate that we had go back on previous decisions which were taken in good faith, but felt that it was better to arrive to the correct end. In fact there were a couple of arguments and comments about the problems of shrinkage, but nobody could discount the technical decision of the working group. The working group were a sub group which we charged to analyze the problem.

Therefore the following results / conclusions were arrived to and need to be implemented immediately:

After obtaining some experience in practice it seemed that semi-water fields built on prefabricated shock pads (especially foam) have a risk of shrinkage over an unspecified period of time.

This was clearly visible along the sides of the field, which could shrink more than 2 centimetres. This was not what was wanted.

Therefore the KNHB required for the use of prefabricated shock pads (especially foam) that the artificial turf had to be fixed at the four edges of the field (KNHB decision at February 15th).

A full-filled system could be built without fixing, when it is proven that shrinkage doesn't occur as in the aforementioned.

Best regards,

i.V. Luca Girelli Head of Business Unit ProGame i.A. Björn Hammel Application Engineer ProGame