



# FIFA Quality Concept

## Launch of the FIFA Quality Concept for artificial turf in 2001: red card for inferior turf

- Artificial turf will undergo stringent quality tests before qualifying for one of the two FIFA standards





# FIFA Quality Concept

## The key elements are:

- Laboratory & field tests, 2 different levels
- Integration into „Laws of the Game“
- Licensing programme for manufacturers
- Reinvestment of net revenues into FIFA Goal program



# FIFA Quality Concept

## Objectives of the FIFA Quality Concept for artificial turf:

- High quality & playability of artificial fields
- Ensured safety of players
- Install artificial turf in locations where useful



# FIFA Quality Concept

## Laboratory tests

1. Identification tests
2. Durability
3. Climatic resistance
4. Ball/surface interaction
5. Player/surface interaction

**=> Natural turf in good condition as benchmark**



# FIFA Quality Concept

## Player/Surface Interaction





# FIFA Quality Concept

## Field tests

1. Construction tests
2. Ball/surface interaction
3. Player/surface interaction

The construction/installation of the field is decisive for the performance and quality.

**=> Only the final installation gets the FIFA certification!**



# FIFA Quality Concept

## Ball/Surface Interaction





# FIFA Quality Concept

**Manufacturer**

**Product**

**Laboratory  
Test**

**Product  
successfully  
tested**

**Pitch  
Installation**

**Field  
Test**

**Field  
successfully  
tested**



Sport Surface Research Forum



# FIFA Quality Concept

**15 licensees and 102 FIFA  
RECOMMENDED installations**



SPORTS SURFACE RESEARCH FORUM



# AGENDA (4)

1. History of artificial turf
2. FIFA quality concept
3. Artificial turf and competitions
- 4. Introduction of the new standard**
5. Benefits of artificial turf
6. Conclusion



# Introduction of new Standard (Integration of UEFA)

## Objectives:

- To create a higher standard in order to have products developed that are even closer to good natural turf
- Harmonize the two different standards (FIFA, UEFA) under one roof

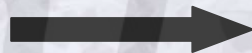


# Introduction of new Standard (Integration of UEFA)

2001-2004

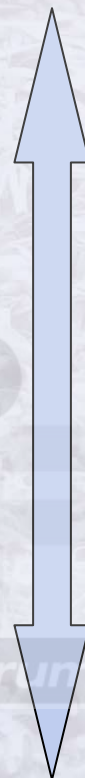
1 July 2004

Top Clubs, Stadiums,  
National Training &  
Matchplay,  
Municipality, Goal-  
Project



New standard for  
Top Clubs and  
Stadiums

National Training  
& Matchplay,  
Municipality



Minimum requirement for artificial turf according to the „Laws of the Game“



# Introduction of new Standard (Integration of UEFA)

**Development of the new and higher standard  
was based on:**

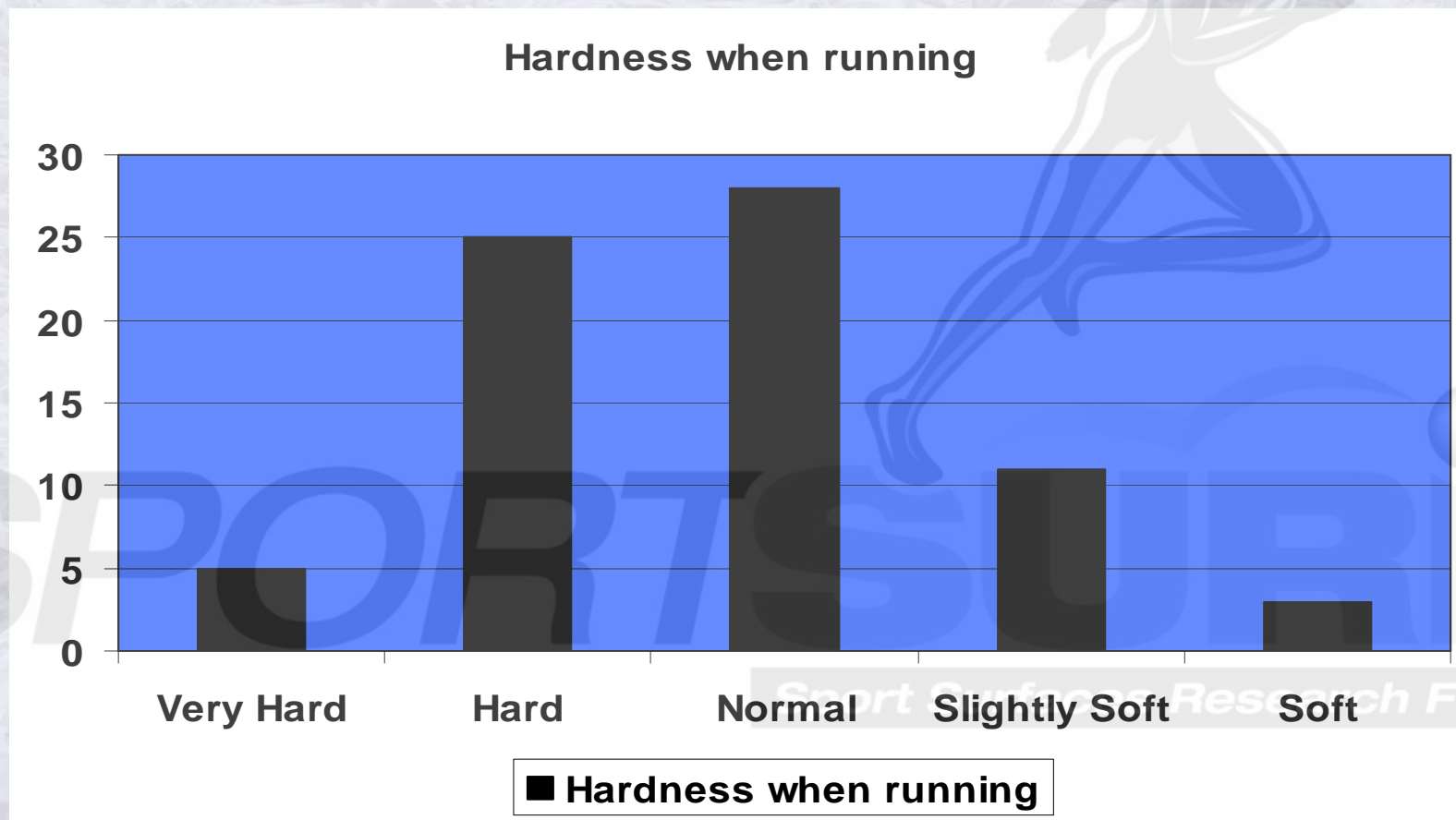
- Players Feedback
- Product test data analysis
- Medical research





# FIFA RECOMMENDED 2 STAR

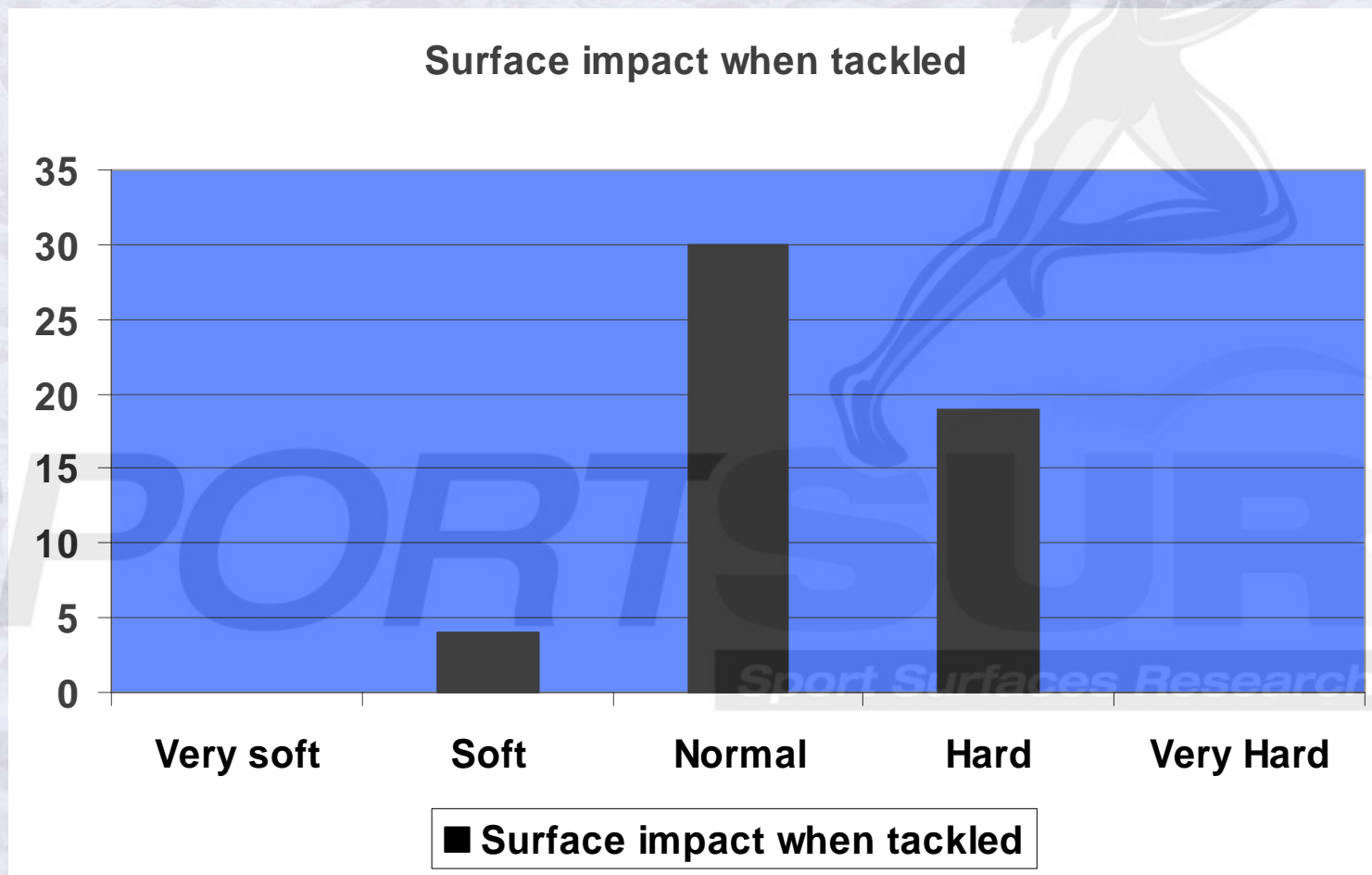
## Shock absorbency





# FIFA RECOMMENDED 2 STAR

## Shock absorbency





# FIFA RECOMMENDED 2 STAR

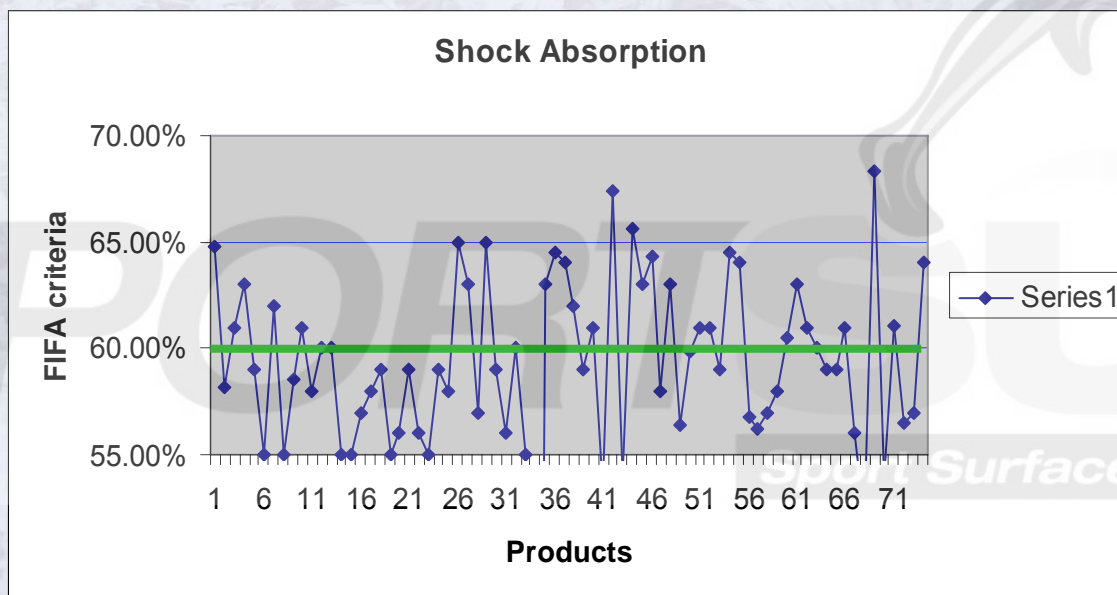
## Shock absorbcency

FIFA RECOMMENDED 1 STAR

FIFA RECOMMENDED 2 STAR

55% - 70%

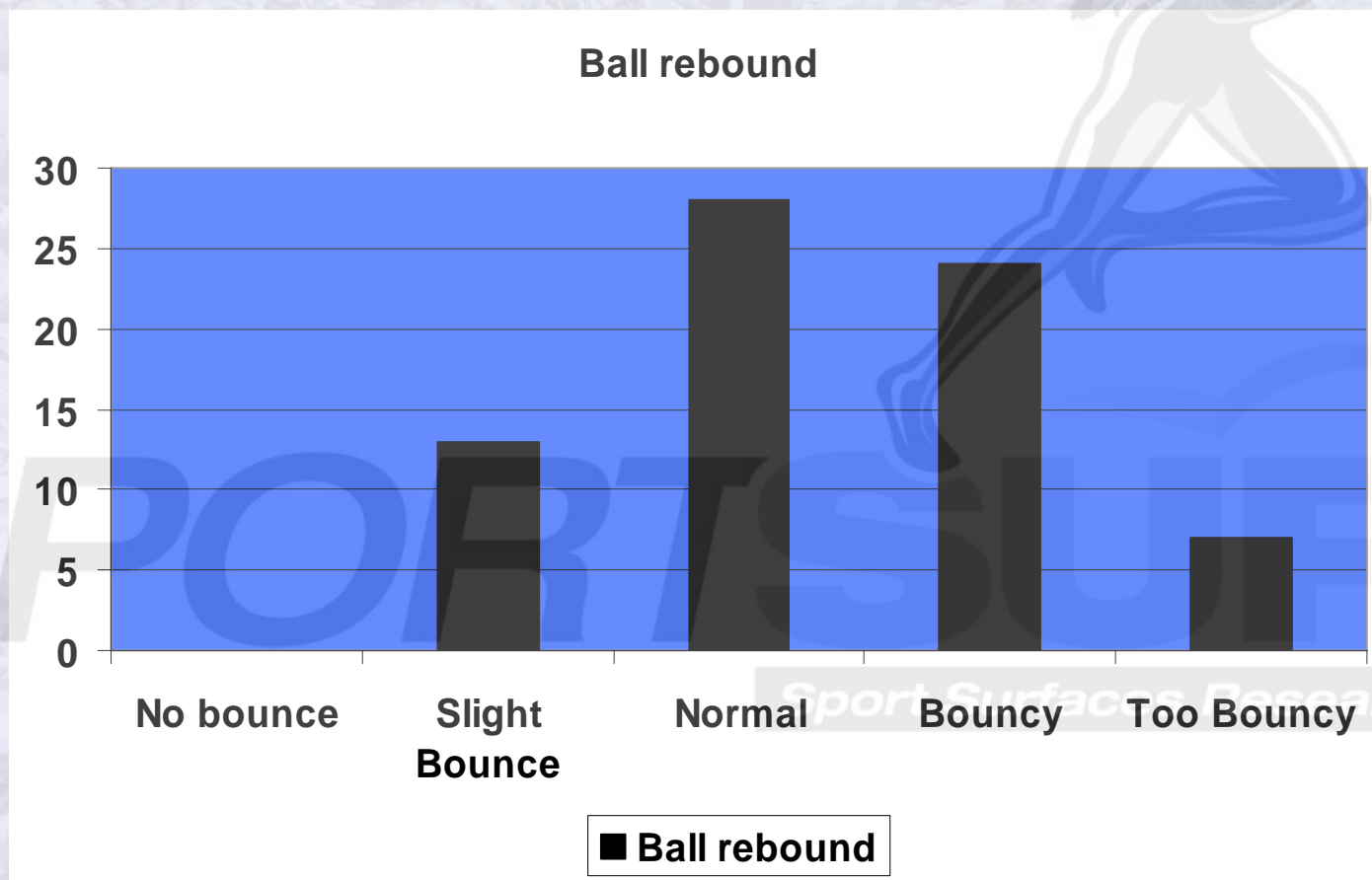
60% - 70%





# FIFA RECOMMENDED 2 STAR

## Vertical ball rebound





# FIFA RECOMMENDED 2 STAR

## Vertical ball rebound

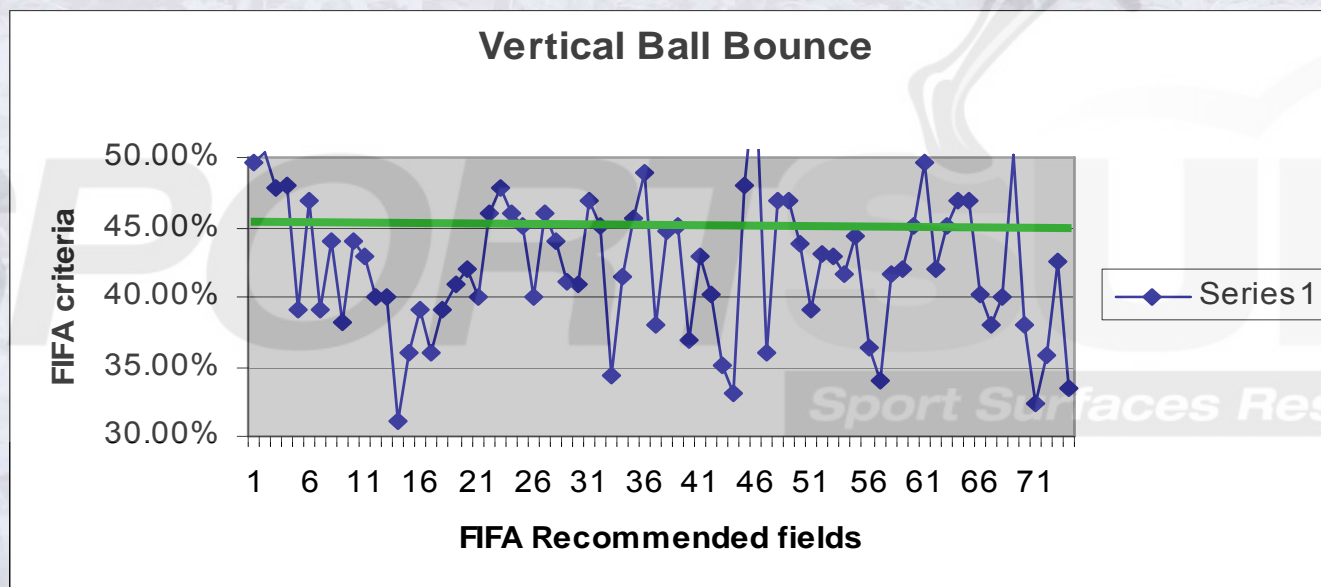
FIFA RECOMMENDED 1 STAR

**FIFA RECOMMENDED 2 STAR**

(Natural Grass in ideal condition 60cm – 84cm)

60cm – 100cm

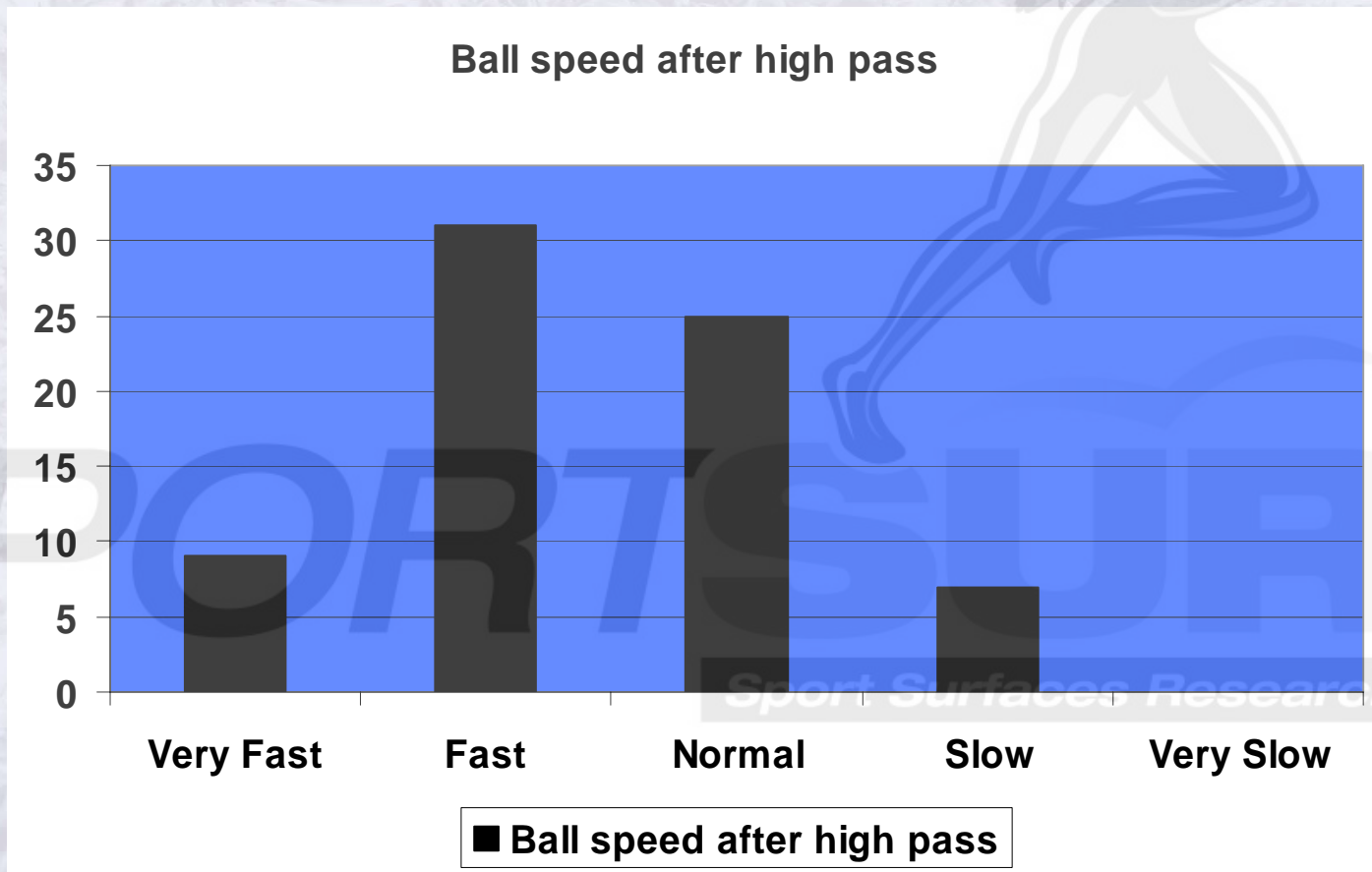
**60cm – 85cm**





# FIFA RECOMMENDED 2 STAR

## Angled ball behavior (15° and 50km/h)





# FIFA RECOMMENDED 2 STAR

## Angled ball behavior (15° and 50km/h)

FIFA RECOMMENDED 1 STAR

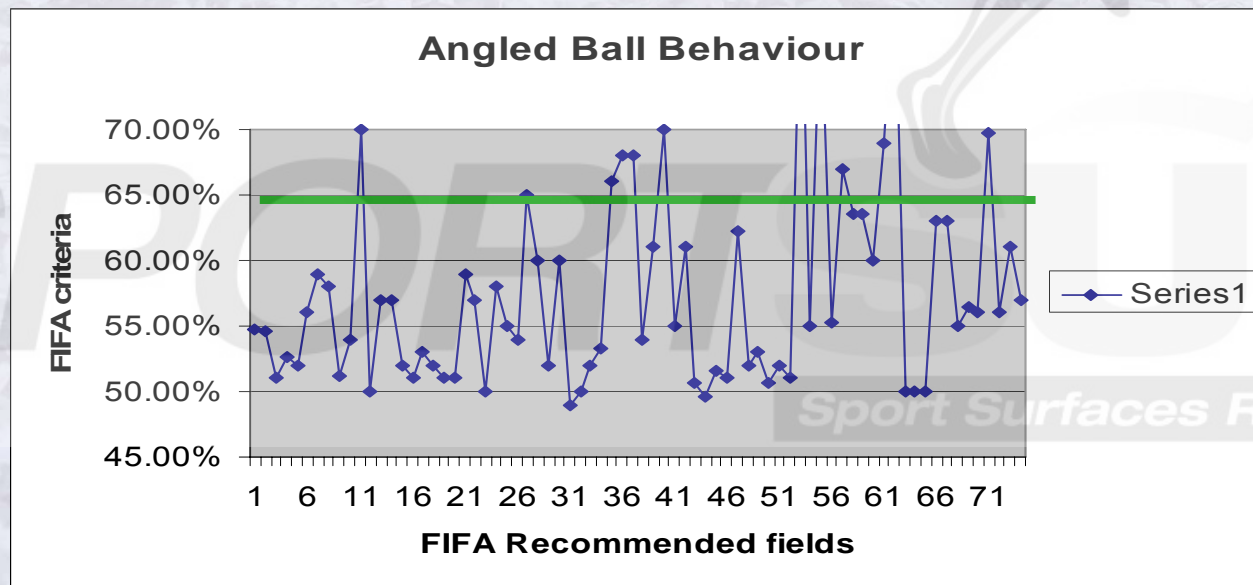
45% – 70%

FIFA RECOMMENDED 2 STAR

45% – 60%

➤ Wet conditions

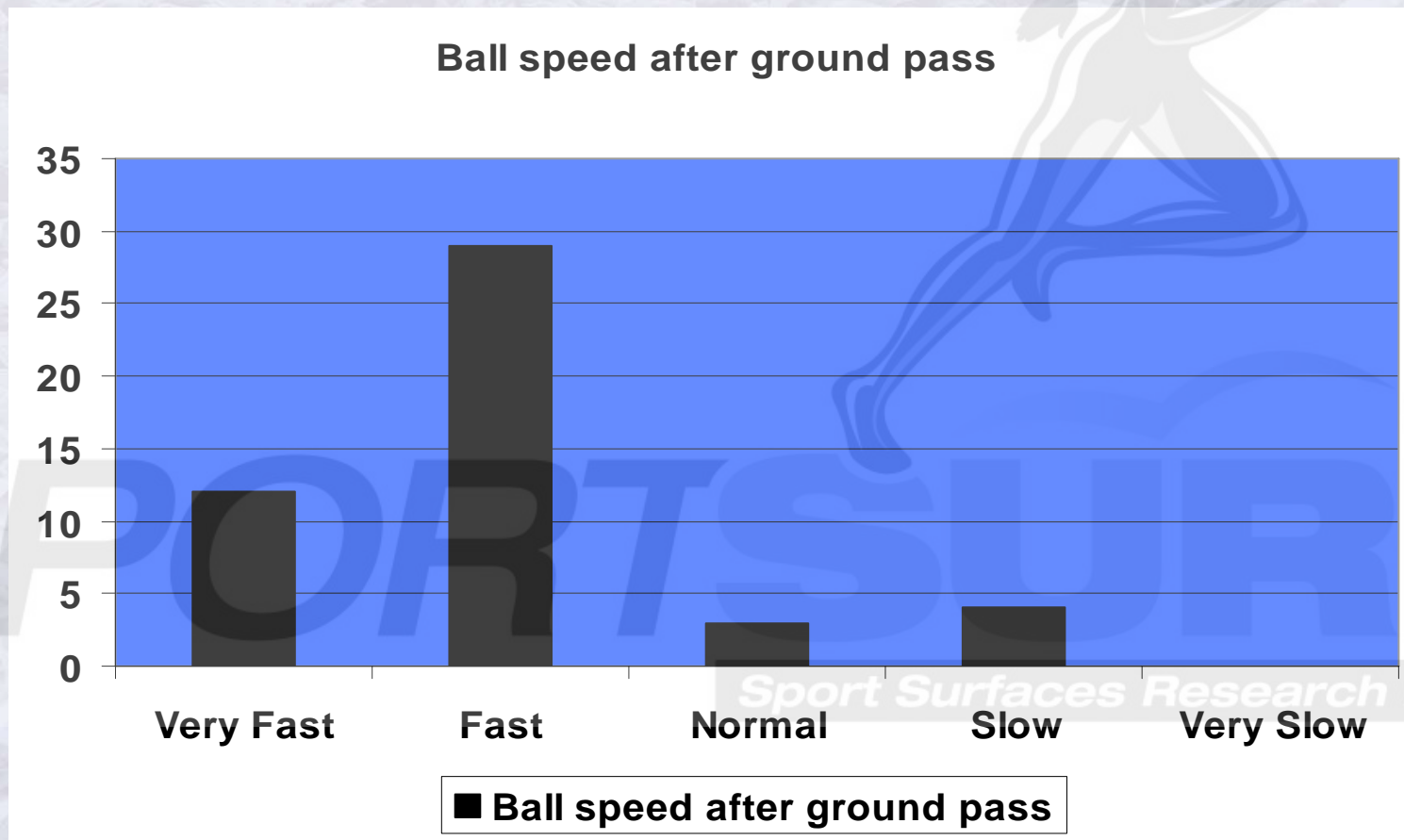
45% - 80%





# FIFA RECOMMENDED 2 STAR

## Ball roll





# FIFA RECOMMENDED 2 STAR

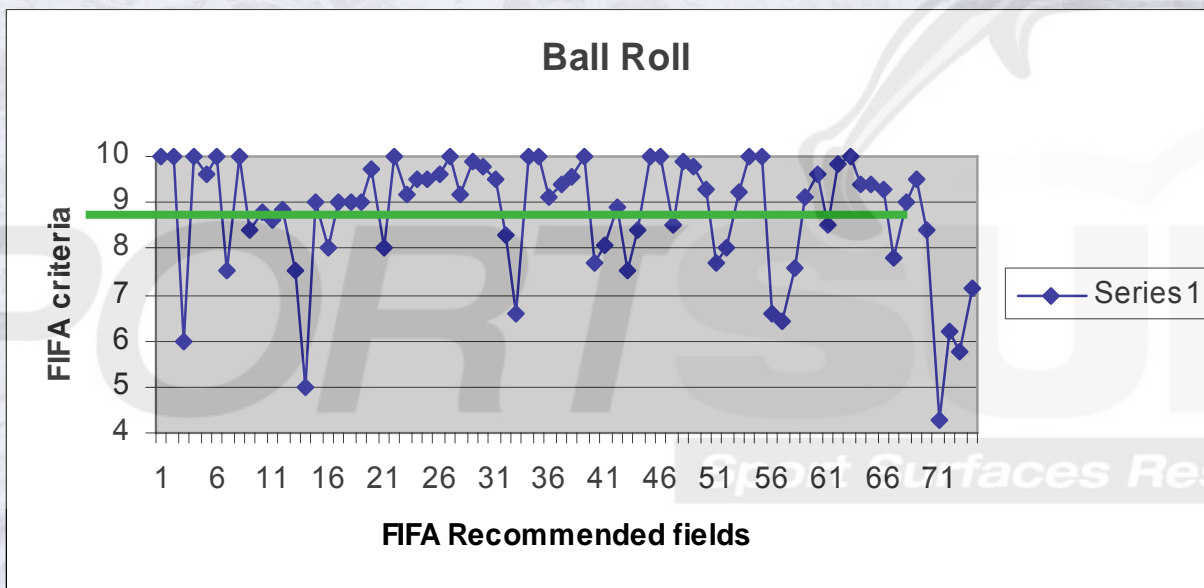
## Ball roll

FIFA RECOMMENDED 1 STAR

4 - 10 m

FIFA RECOMMENDED 2 STAR

4 - 8 m





# FIFA RECOMMENDED 2 STAR

## Slip resistance (New test method)

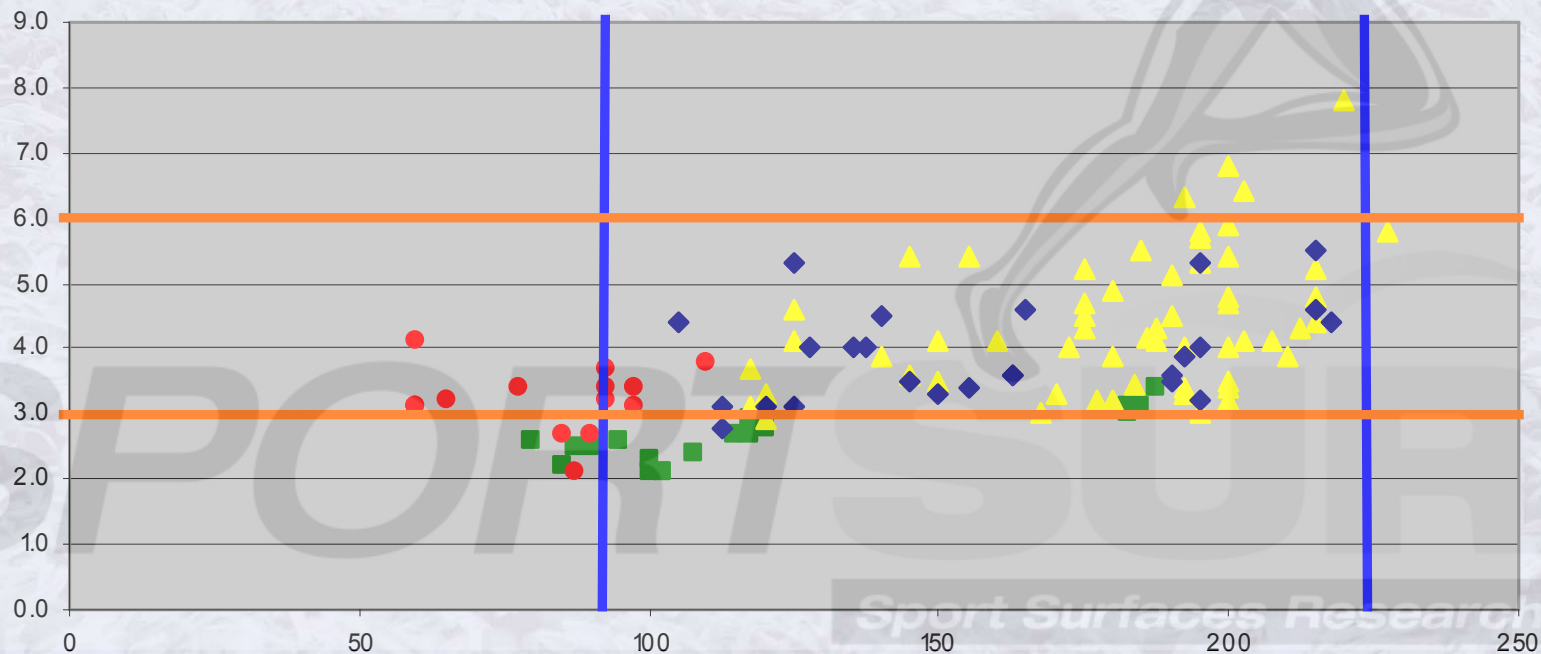




# FIFA RECOMMENDED 2 STAR

## Slip resistance :

- Scale
- Deceleration

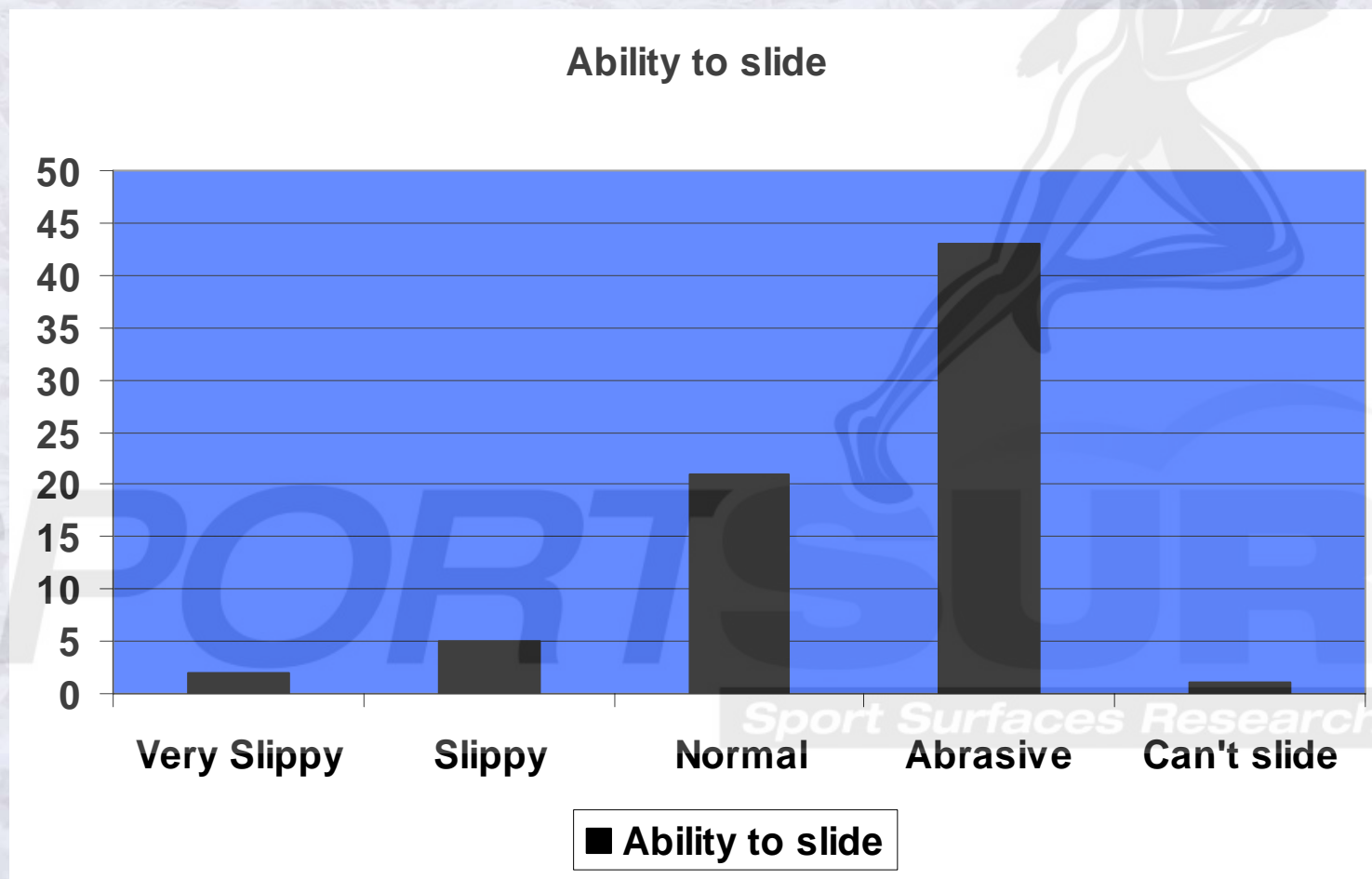


■ unfilled art. turf ▲ artificial turf ◆ natural grass ● sand filled art. turf



# FIFA RECOMMENDED 2 STAR

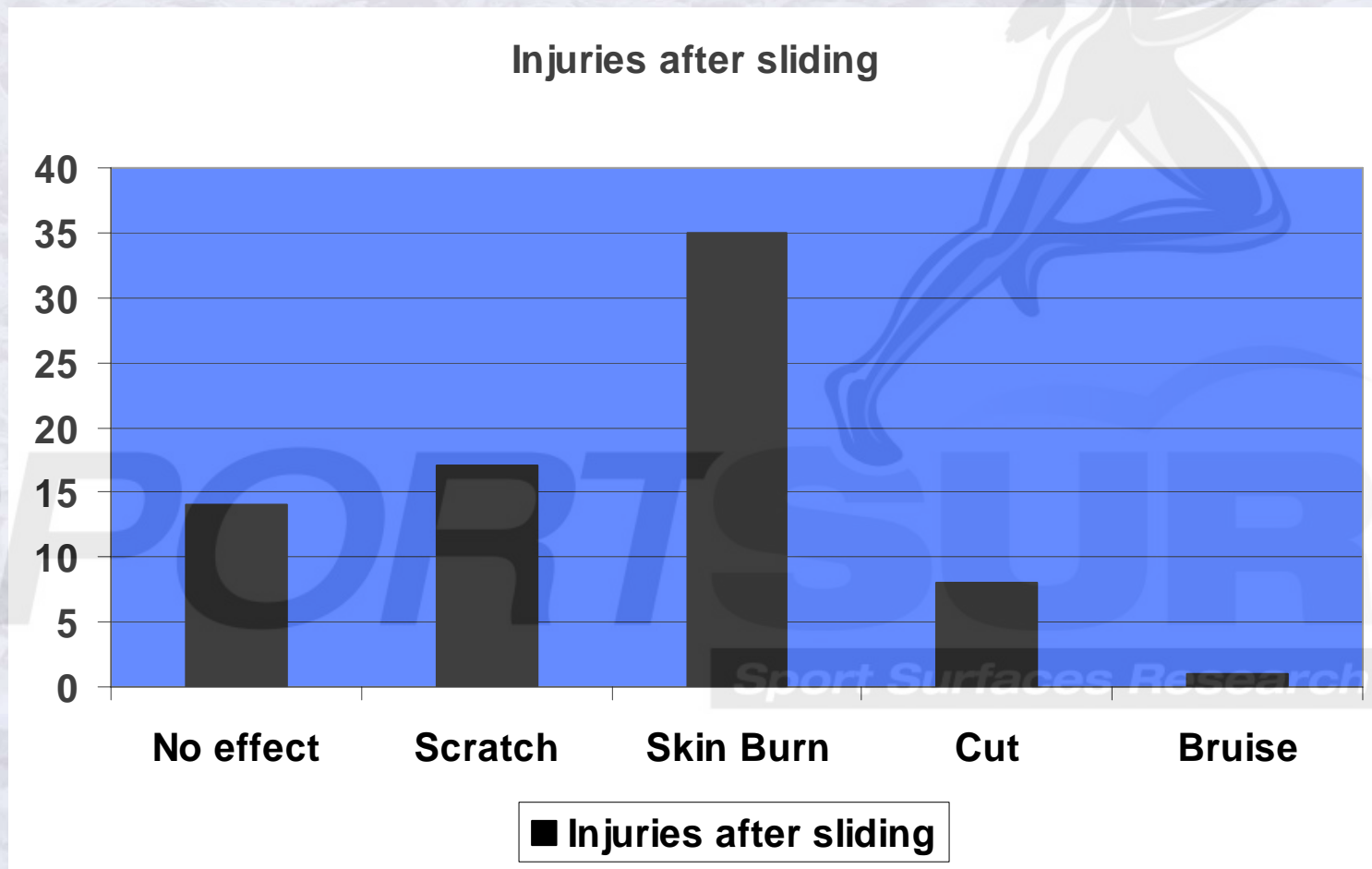
## Sliding ability





# FIFA RECOMMENDED 2 STAR

## Sliding ability





# FIFA RECOMMENDED 2 STAR

## Securisport (New test method)

- Skin abrasion
- Skin burn





# Introduction of new Standard (Integration of UEFA)

- Harmonization with UEFA completed by February 2005
- One standard only: FIFA Quality Concept
- FIFA RECOMMENDED 2-STAR for UEFA competitions such as Champions League, UEFA Cup and EURO 2008 qualification matches