



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



Sport Surface Research Forum



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

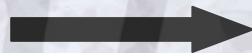


Introduction of new Standard (Integration of UEFA)

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:

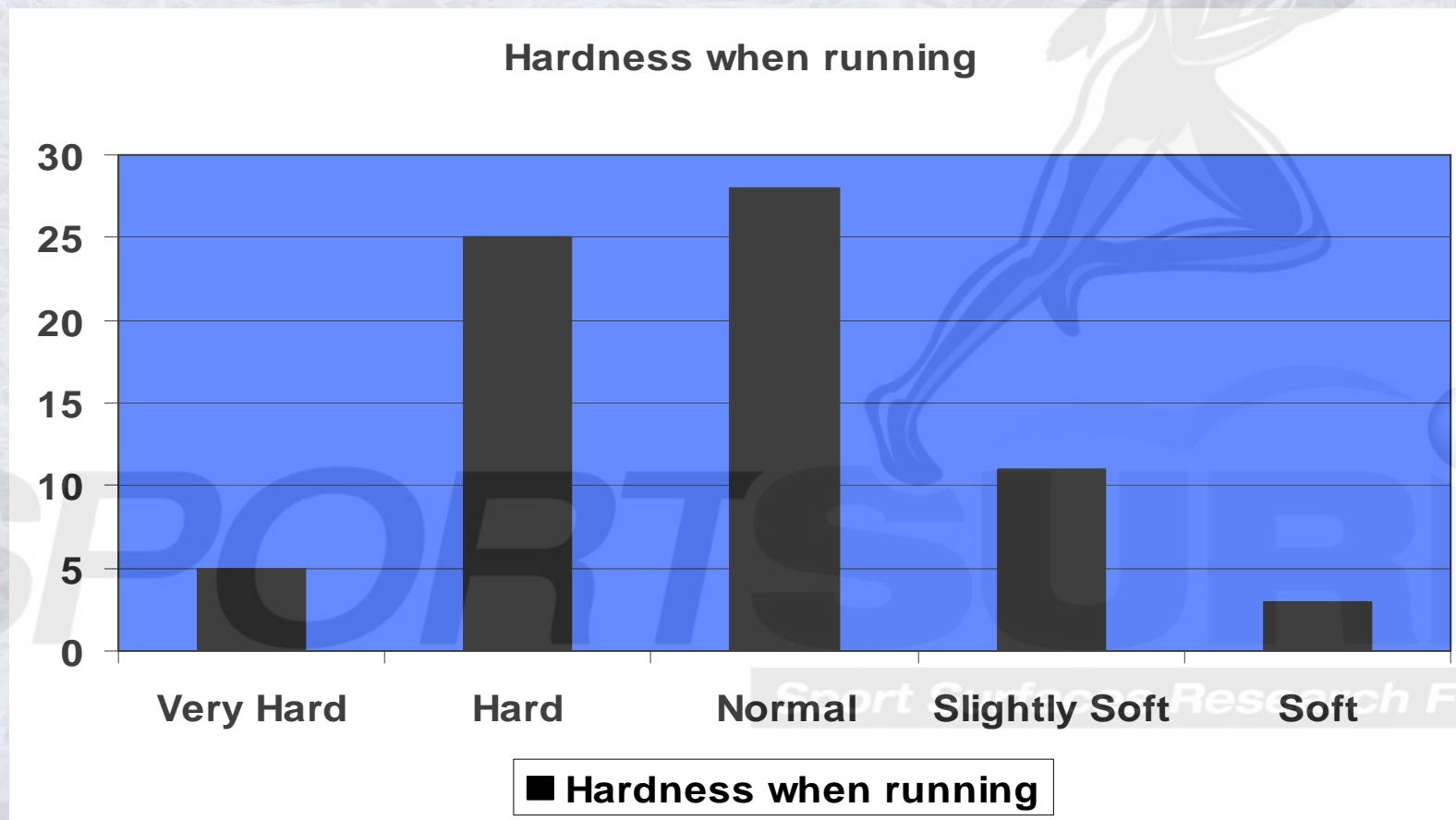
- Players Feedback
- Product test data analysis
- Medical research





FIFA RECOMMENDED 2 STAR

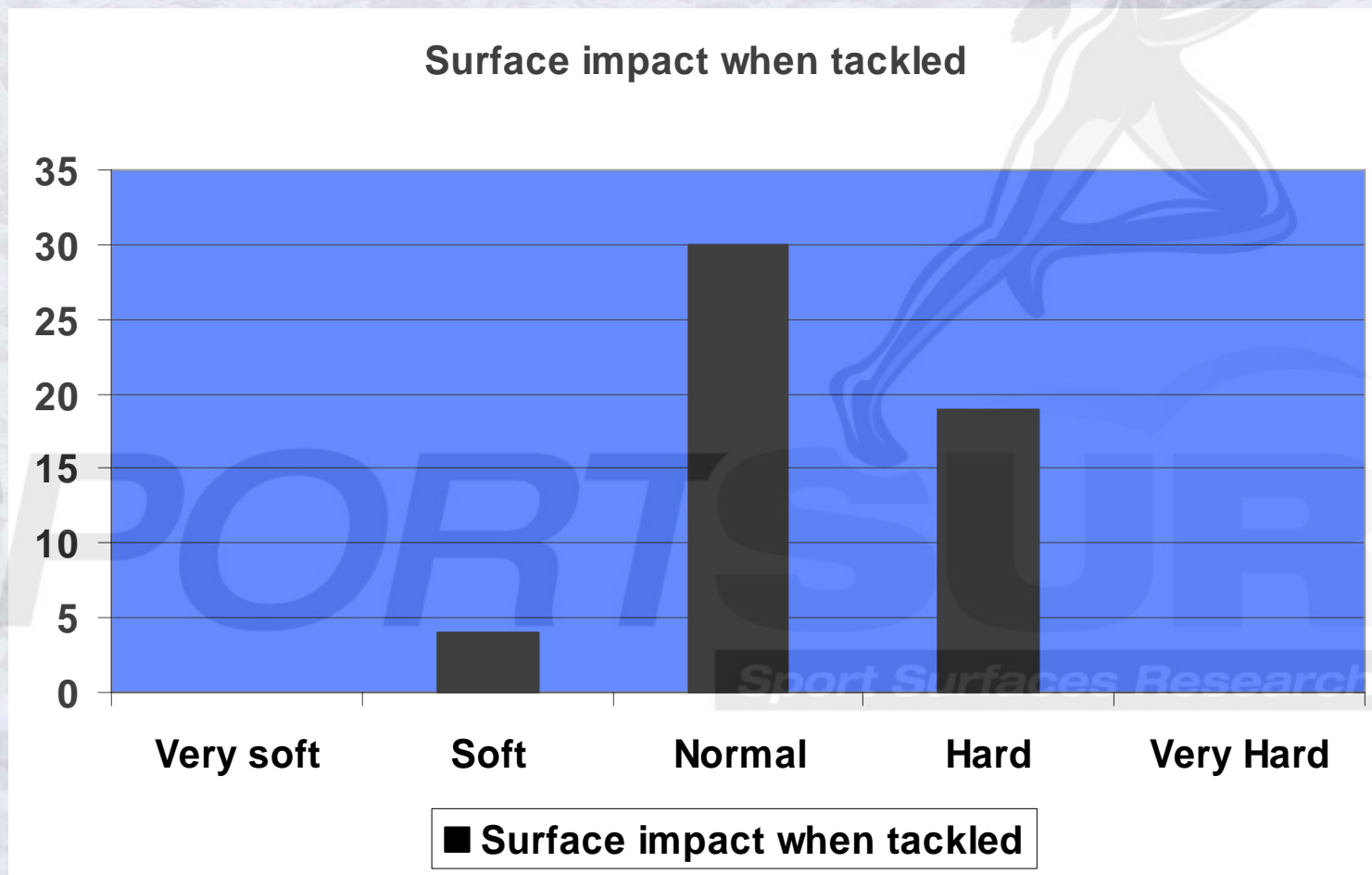
Shock absorbency





FIFA RECOMMENDED 2 STAR

Shock absorbency





FIFA RECOMMENDED 2 STAR

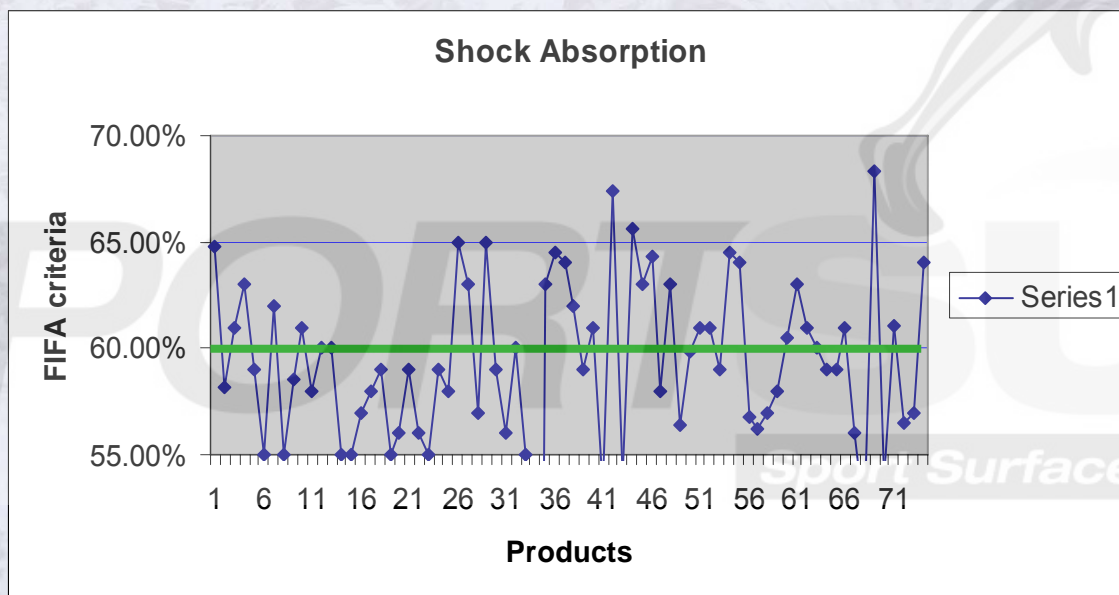
Shock absorbcency

FIFA RECOMMENDED 1 STAR

FIFA RECOMMENDED 2 STAR

55% - 70%

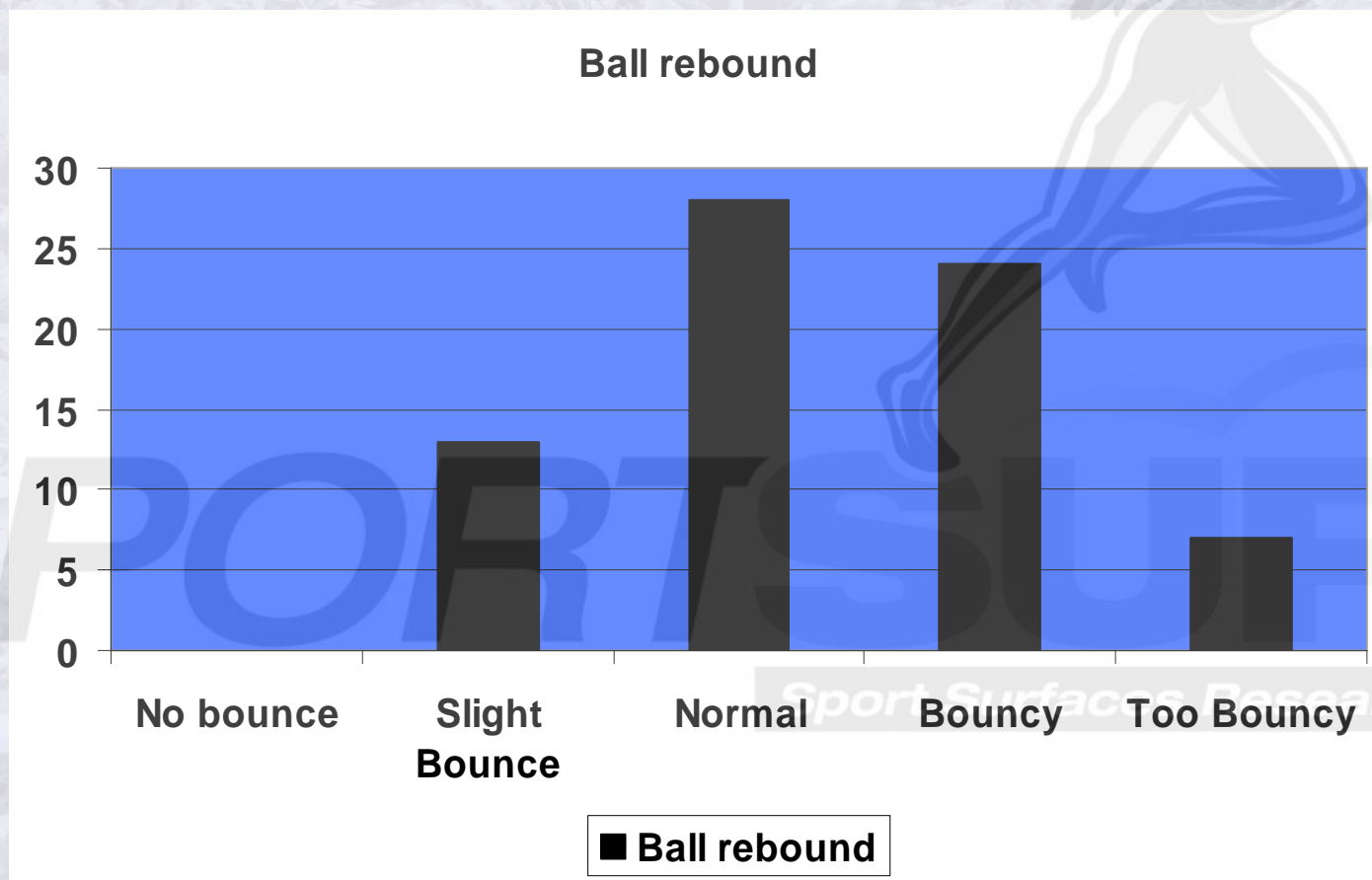
60% - 70%





FIFA RECOMMENDED 2 STAR

Vertical ball rebound





FIFA RECOMMENDED 2 STAR

Vertical ball rebound

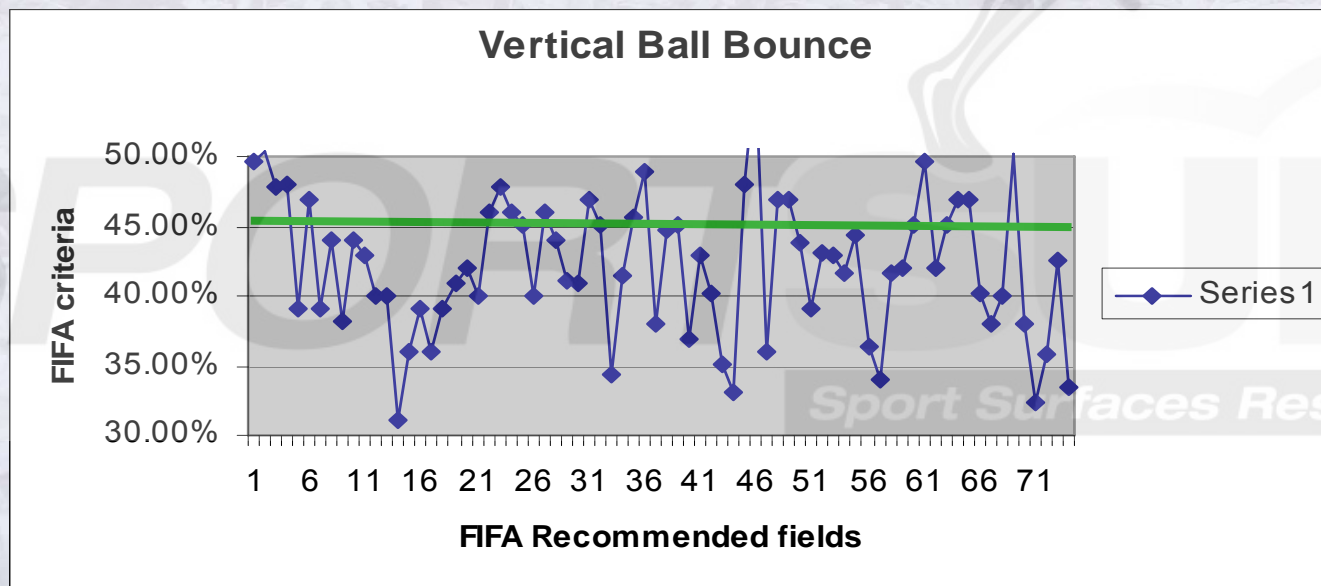
FIFA RECOMMENDED 1 STAR

FIFA RECOMMENDED 2 STAR

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

60cm – 100cm

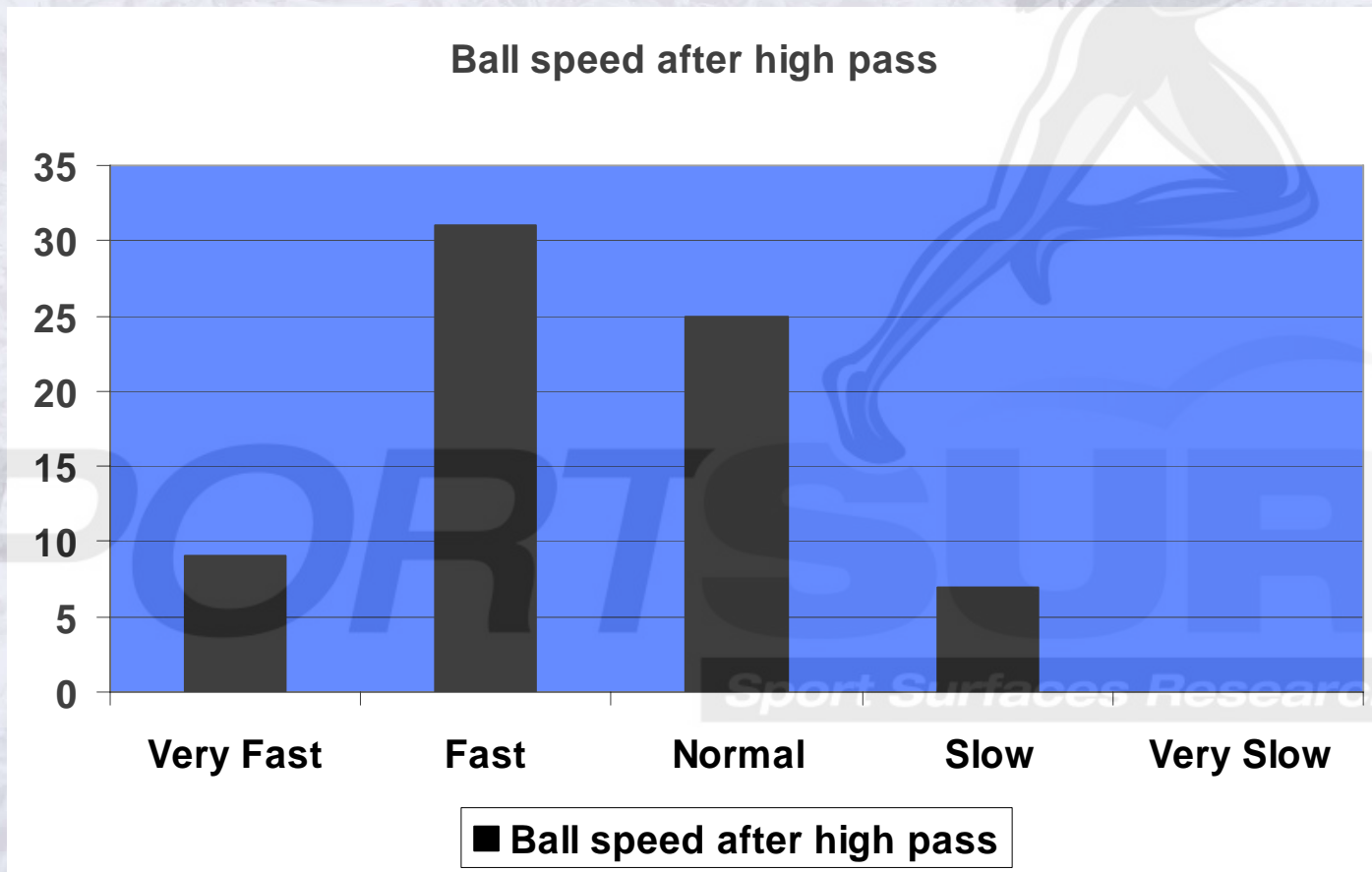
60cm – 85cm





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

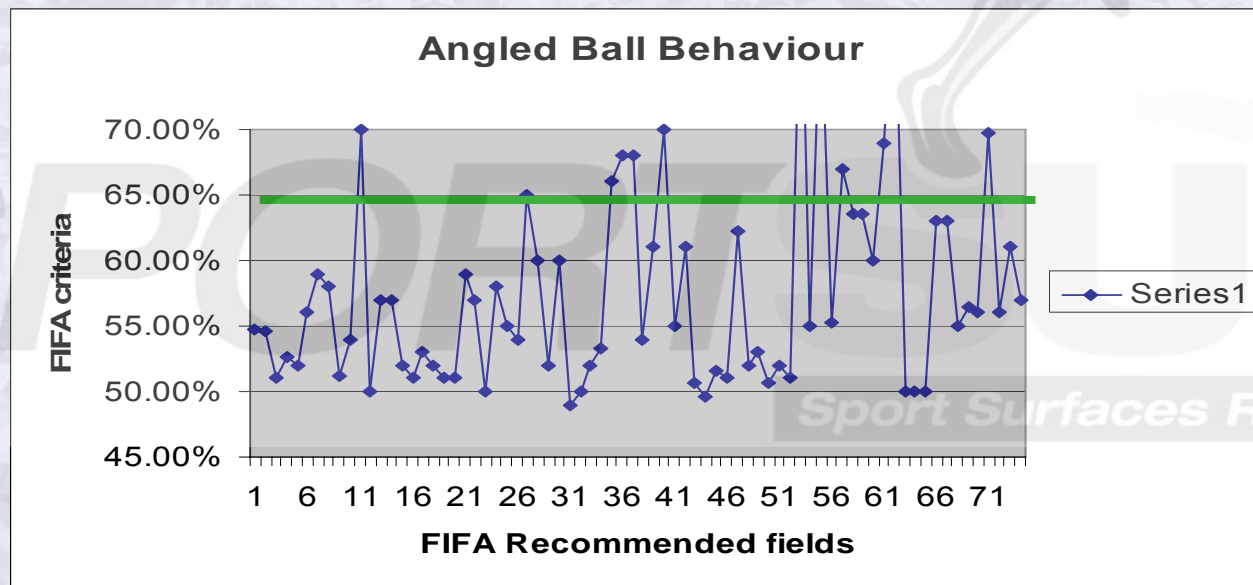
45% – 70%

FIFA RECOMMENDED 2 STAR

45% – 60%

➤ Wet conditions

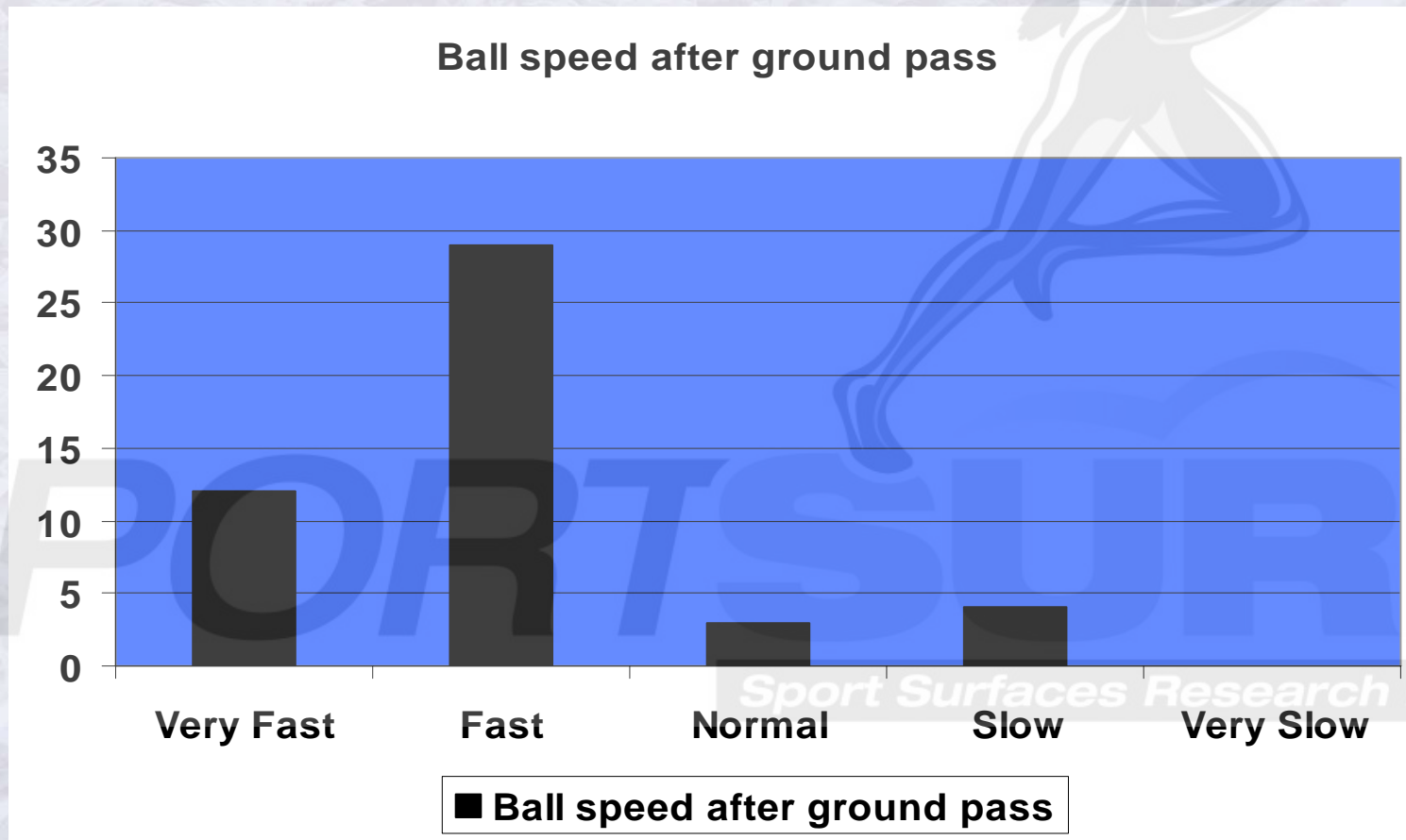
45% - 80%





FIFA RECOMMENDED 2 STAR

Ball roll





FIFA RECOMMENDED 2 STAR

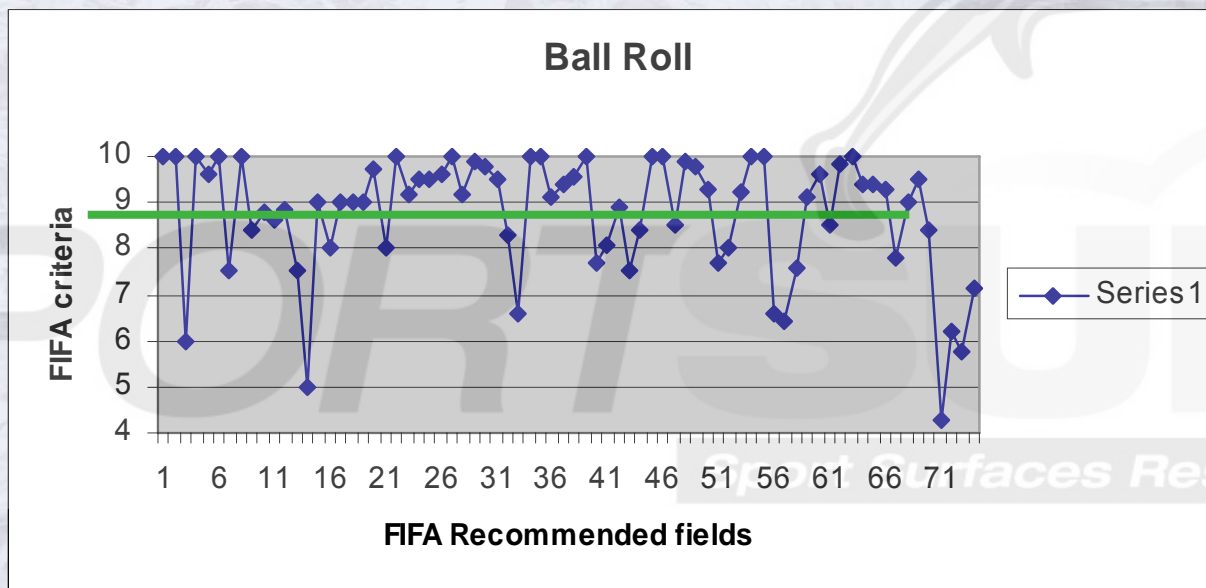
Ball roll

FIFA RECOMMENDED 1 STAR

4 - 10 m

FIFA RECOMMENDED 2 STAR

4 - 8 m





FIFA RECOMMENDED 2 STAR

Slip resistance (New test method)



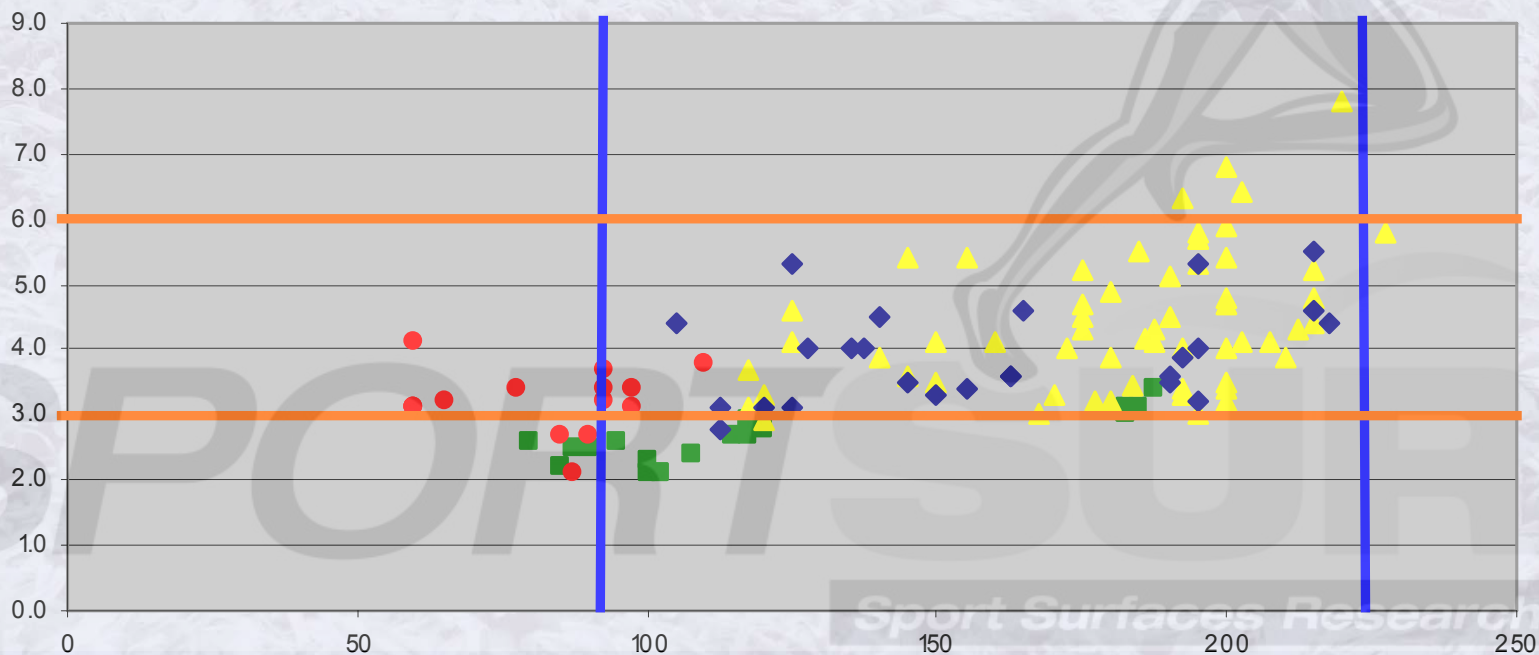
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FIFA RECOMMENDED 2 STAR

Slip resistance :

- Scale
- Deceleration

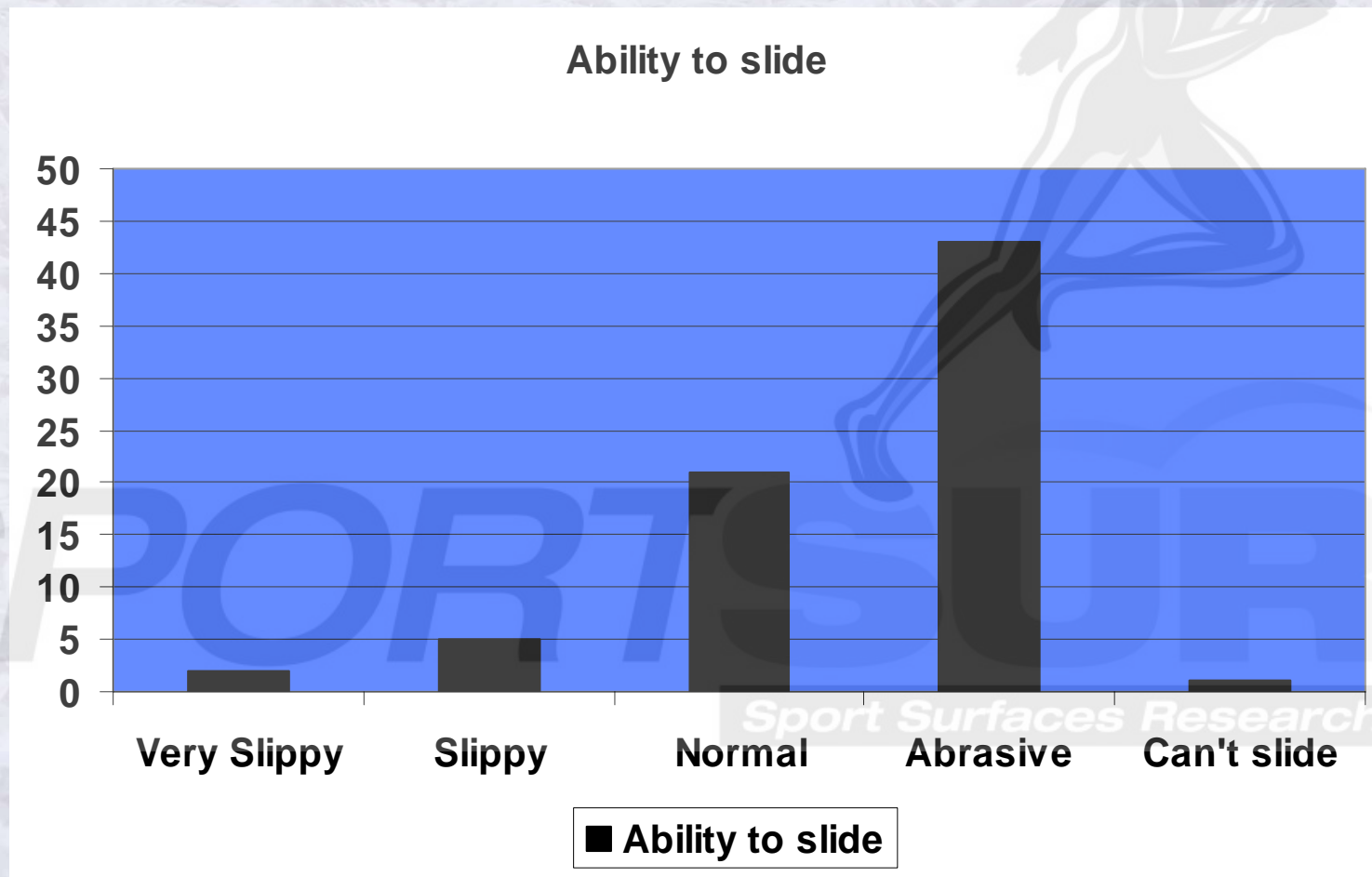


■ unfilled art. turf ▲ artificial turf ◆ natural grass ● sand filled art. turf



FIFA RECOMMENDED 2 STAR

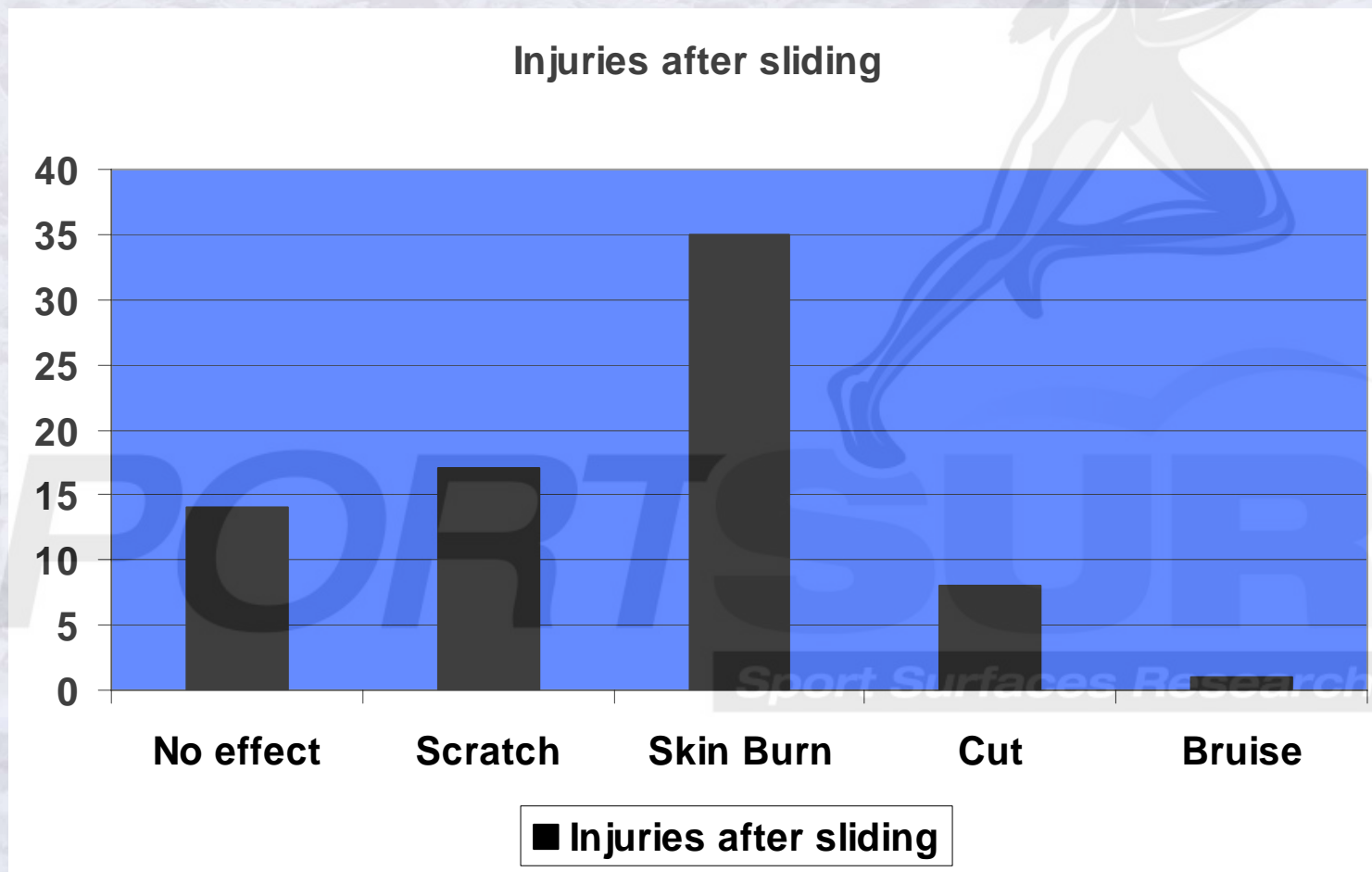
Sliding ability





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