








2016 FOOTBALL FACILITIES FORUM
Latest Insights Into Synthetic Technology

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Andrew Morrow – Turf One & Anthony Saba – Greenplay Australia
Erik Kinton – HG Sports Turf & Rob Kirkwood - Polytan



Presentation

- Overview of industry changes
- Changes to standards
- Changes in design and construction
- Key issues facing the industry
 - Heat
 - Health issues
 - Hybrid and synthetics
 - Increased costs in NSW
- Q & A Session

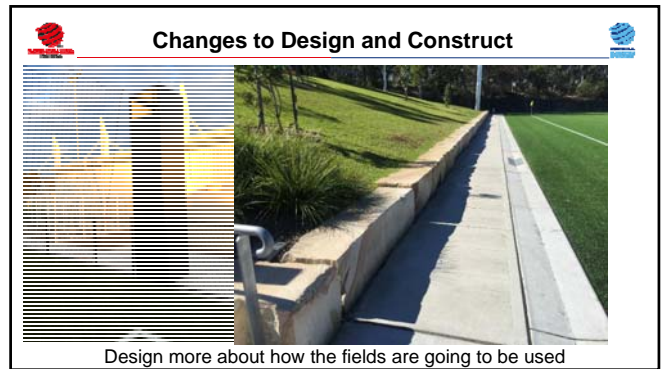
Overview of Industry Changes

- Last 12 months – 8-10 built - & 13 tenders let
- Another 20+ in NSW in next 12 months
- More companies fighting for the work
- Increased focus on hybrid turf
- Design around management and usage
- Inclusion of modified games – winter and summer use

Changes to Standards


- FIFA's new standards in new Quality Manual (Oct '15)
- Fundamental changes to align the Lab testing to how used in field
- Increased sizes of systems being tested
- Emphasis on durability – new machine – Lisport XL
- Recognition of UV, Heat and Splash
- New standards are being tested now – only a small handful of systems have passed so far
- New standards are suppose to start January 2017
- Retests are against the Quality Manual of installation





Key Issues – Yarn Types

- Monofilament – High Performance
- Fibrillated Tape – Very Very durable
- Hybrid – Excellent Mix
- Quality of Yarn – not just the type



Key Issues – SBR & Health Perceptions

- Perception that SBR could be dangerous
- Over 75 independent reports say otherwise
- Are fields being removed – US & Netherlands
- It remains a safe and economic option
- Managing Perceptions may mean that you need to use a virgin rubber or organic option

Key Issues – SBR & Health Perceptions

- Virgin Infills – TPE, EVA, TP, EPDM
- Must ensure that they are tested to UV standards (min 5,000hrs)
- EN Safety standards – toy ingestion and heavy metals



Key Issues – Water Retention

- Environmentally friendly and water harvesting
- Use to water field or water adjacent natural fields



Key Issues – Heat Reduction


- Still an Issue
- Watering
- Organic Infill – Cork or Cork/Coconut husk
- Hydrochill application
- Hybrid technology reduces the 'black SBR' open to the sun
- Shade reduces heat significantly

- Natural Turf - irrigated
- Geo infills requiring watering
- Cork infills – subjected to watering
- Lightly coloured EPDM infill treated with a HydroChill polymer coating & watering
- Cork infills – without watering
- Lightly coloured EPDM or TPE infills
- Black SBR treated with a HydroChill polymer coating
- Coated SBR
- Black SBR


Key Issues – Hybrids

- Is Hybrid the new "Synthetic Turf"
- No, No, No...
- Natural turf = 20-25 hrs; Hybrid turf = 30-35 hrs; 50 hrs +++
- Not just full field but excellent for high wear areas




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Cost of Synthetic Surfaces




- Based on a 8,500m² Field
- Base Durable FIFA Quality = \$1.2m
- Base complexity = \$0.2-0.4m
- Non SBR infill = \$0.12m
- Take 150mm of site = \$0.2- 0.3m
- Fence = \$0.06m
- Lights = \$0.150m
- Contingency 5% = c. \$2m

Learnings = Design for whole site...and **Best Site**



Questions and Answers



- Andrew Morrow – Turf One
- Anthony Saba – Greenplay Australia
- Erik Kinlon – HG Sports Turf
- Rob Kirkwood – Polytan



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