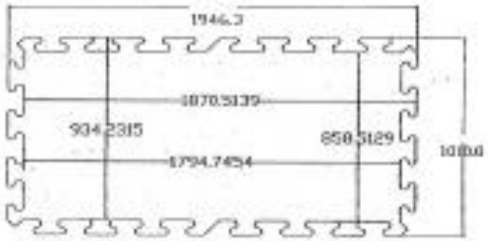
REFO PLAY 25 N

Perforaed plate puzzle form, only vertical drainage

TECHNICAL SPECIFICATION		
REFO PLAY 25 N, is used for the realization of playgrounds and green areas, tested by ISA SPORT		
CHARACTERISTICS		
Physical		
Thickness at kPa load	25	mm
Density	80.0	kg/m³
HIC value	1,2	mt
Mass per unit area	1,8	Kg/m²
Tensile Strength of Shockpad	0,18	Mpa

REFO PLAY 25 N is supplied in plate

Measures each plate: **mt 1,946 x 1,01 (puzzle form)**
Sqm each plate: **1,75 sqm**



The holes are present on each plate, every 5 cm

Holes Width: 20 mm
Holes Depth: 10 mm

Performance*					
Elongation at Break			38.9	%	EN ISO 1798
Tensile Strenght			0.18	MPa	EN ISO 1798
Tear Strenght			1.38	N/mm	DIN 53 507
Compression stress strength			10%	31 kPa	EN-ISO 3386/1
			25%	62 kPa	EN-ISO 3386/1
			50%	142 kPa	EN-ISO 3386/1
Compression set	25% - 30' - 23°C		12.08	%	EN ISO 1856
	25% - 22h - 23°C		4.31	%	EN ISO 1856
Compression set	50% - 30' - 23°C		34.20	%	EN ISO 1856
	50% - 22h - 23°C		14.02	%	EN ISO 1856
Shore	Shore 0		28	Shore	ASTM D 2240
	Shore 00		49	Shore	ASTM D 2240
	Shore A		34	Shore	ISO R.868
	Shore D		1	Shore	ISO R.868
Conditioning	Conditioning Time		> 72	Hours	
	Temperature		22	°C	
	Humidity		35	%	
Thermal conductivity		LAMBDA	KCAL/MH°C - W/MK		0.0368 - 0.0315
Thermal stability			100	°C	EN ISO 2796

DURABILITY

REFO PLAY 25 consists of thermal bonded (closed-celled) cross-linked Polyethene foam (from non-contaminated industrial waste)
with a predicted durability (according ISO/TR 13434) for a minimum of 100 years but the normal warranty is tied to the use of the turf.
based on microbiological resistance (according EN 12225) - resistance to: weathering (according EN 12224) - oxidation (according EN 13438) - acids & bases (according EN 14030)

The performance characteristics of REFO PLAY 25 N are hardly effected by simulated (mechanical) wear.
based on stability after 65,000 Lisport cycli (when combined with a non-infill artificial grass)

The (dimensional) characteristics of REFO PLAY 25 N are hardly effected by simulated aging.
based on stability after hot water and hot air (according EN 13744 a nd EN 13817)

This specification is based on (independent) Laboratory measurements and the overall knowledge of A.P.E. TECHNOLOGIES (at the time of revision).
Additional information (e.g. additional characteristics, specif laboratory reports or statistical analysis) is available upon request.
A.P.E. TECHNOLOGIES reserves itself the right to change this specification and/or product (without notice)

BENEFITS

- Cost of preparation of the surface, which does not requires special processing;
- Any existing surface may be considered suitable the installation, for example: (cement, tile, earth, stone, etc. ..) long as it is flat;
- Speed and simplicity of installation;
- odorless;
- Water-repellent;
- Controlled drainage;
- Possibility of diversified composition with a special interlocking system of the plate;
- Guarantee of durability of the structural properties except mechanical work such as, the rupture of one or more parts, thus allowing the only substitution turf, once damaged or reached the end of life;

REFO PLAY 45 N

Perforaed plate puzzle form, only vertical drainage

TECHNICAL SPECIFICATION

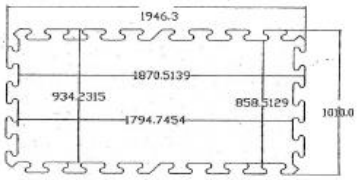
REFO PLAY 45 N, is used for the realization of playgrounds and green areas, tested by ISA SPORT

CHARACTERISTICS

Physical		
Thickness at kPa load	45	mm
Density	80.0	kg/m³
HIC value	2,0	mt
Mass per unit area	3,0	Kg/m²
Tensile Strength of Shockpad	0,38	Mpa

REFO PLAY 45 N is supplied in plate

Measures each plate: **mt 1,946 x 1,01 (puzzle form)**
Sqm each plate: **1,75 sqm**



The holes are present on each plate, every 5 cm

Holes **Width: 20 mm**
Holes **Depth: 10 mm**

DURABILITY

REFO PLAY 45 N consists of thermal bonded (closed-celled) cross-linked Polyethene foam (from non-contaminated industrial waste) with a predicted durability (according ISO/TR 13434) for a minimum of 100 yars but the normal warranty is tied to the use of the turf.
based on microbiological resistance (according EN 12225) - resistance to: weathering (according EN 12224) - oxidation (according EN 13438) - acids & bases (according EN 14030)

The performance characteristics of **REFO PLAY 45 N** are hardly effected by simulated (mechanical) wear.
based on stability after 65,000 Lisport cycli (when combined with a non-infill artificial grass)

The (dimensional) characteristics of **REFO PLAY 45 N** are hardly effected by simulated aging.
based on stability after hot water and hot air (according EN 13744 a nd EN 13817)

This specification is based on (independent) Laboratory measurements and the overall knowledge of A.P.E. TECHNOLOGIES (at the time of revision).
Additional information (e.g. additional characteristics, specif laboratory reports or statistical analysis) is available upon request.
A.P.E. TECHNOLOGIES reserves itself the right to change this specification and/or product (without notice)

BENEFITS

- Cost of preparation of the surface, which does not requires special processing;
- Any existing surface may be considered suitable the installation, for example: (cement, tile, earth, stone, etc. ..) long as it is flat;
- Speed and simplicity of installation;
- odorless;
- Water-repellent;
- Controlled drainage;
- Possibility of diversified composition with a special interlocking system of the plate;
- Guarantee of durability of the structural properties except mechanical work such as, the rupture of one or more parts, thus allowing the only substitution turf, once damaged or reached the end of life;

TIGERTURF

REFO PLAY 35 N

Perforaed plate puzzle form, only vertical drainage

TECHNICAL SPECIFICATION

REFO PLAY 35 N, is used for the realization of playgrounds and green areas, tested by ISA SPORT

CHARACTERISTICS

Physical		
Thickness at kPa load	35	mm
Density	80.0	kg/m^3
HIC value	1,70	mt
Mass per unit area	2,7	Kg/m^2
Tensile Strength of Shockpad	0,24	Mpa

Performance*

Elongation at Break		47.43	%	EN ISO 1798
Tensile Strenght		0,24	MPa	EN ISO 1798
Tear Strenght		1.07	N/mm	DIN 53 507
Compression stress strength		10%	21 kPa	EN-ISO 3386/1
		25%	48 kPa	EN-ISO 3386/1
		50%	128 kPa	EN-ISO 3386/1
Compression set	25% - 30' - 23°C	12.72	%	EN ISO 1856
	25% - 24h - 23°C	4.91	%	EN ISO 1856
Compression set	50% - 30' - 23°C	31.39	%	EN ISO 1856
	50% - 24h - 23°C	14.17	%	EN ISO 1856
Shore	Shore 0	24	Shore	ASTM D 2240
	Shore 00	50	Shore	ASTM D 2240
	Shore A	13	Shore	ISO R.868
	Shore D	2	Shore	ISO R.868
Conditioning	Conditioning Time	> 72	Hours	
	Temperature	22	°C	
	Humidity	33	%	
Thermal conductivity		LAMBDA	KCAL/MH°C - W/MK	0.0327 - 0.0380
Thermal stability		105	°C	EN ISO 2796

DURABILITY

REFO PLAY 35 N consists of thermal bonded (closed-celled) cross-linked Polyethene foam (from non-contaminated industrial waste) with a predicted durability (according ISO/TR 13434) for a minimum of 100 yars but the normal warranty is tied to the use of the turf.
based on microbiological resistance (according EN 12225) - resistance to: weathering (according EN 12224) - oxidation (according EN 13438) - acids & bases (according EN 14030)

The performance characteristics of **REFO PLAY 35 N** are hardly effected by simulated (mechanical) wear.
based on stability after 65,000 Lisport cycli (when combined with a non-infill artificial grass)

The (dimensional) characteristics of **REFO PLAY 35 N** are hardly effected by simulated aging.
based on stability after hot water and hot air (according EN 13744 a nd EN 13817)

BENEFITS

- Cost of preparation of the surface, which does not requires special processing;
- Any existing surface may be considered suitable the installation, for example: (cement, tile, earth, stone, etc. ..) long as it is flat;
- Speed and simplicity of installation;
- odorless;
- Water-repellent;
- Controlled drainage;
- Possibility of diversified composition with a special interlocking system of the plate;
- Guarantee of durability of the structural properties except mechanical work such as, the rupture of one or more parts, thus allowing the only substitution turf, once damaged or reached the end of life;

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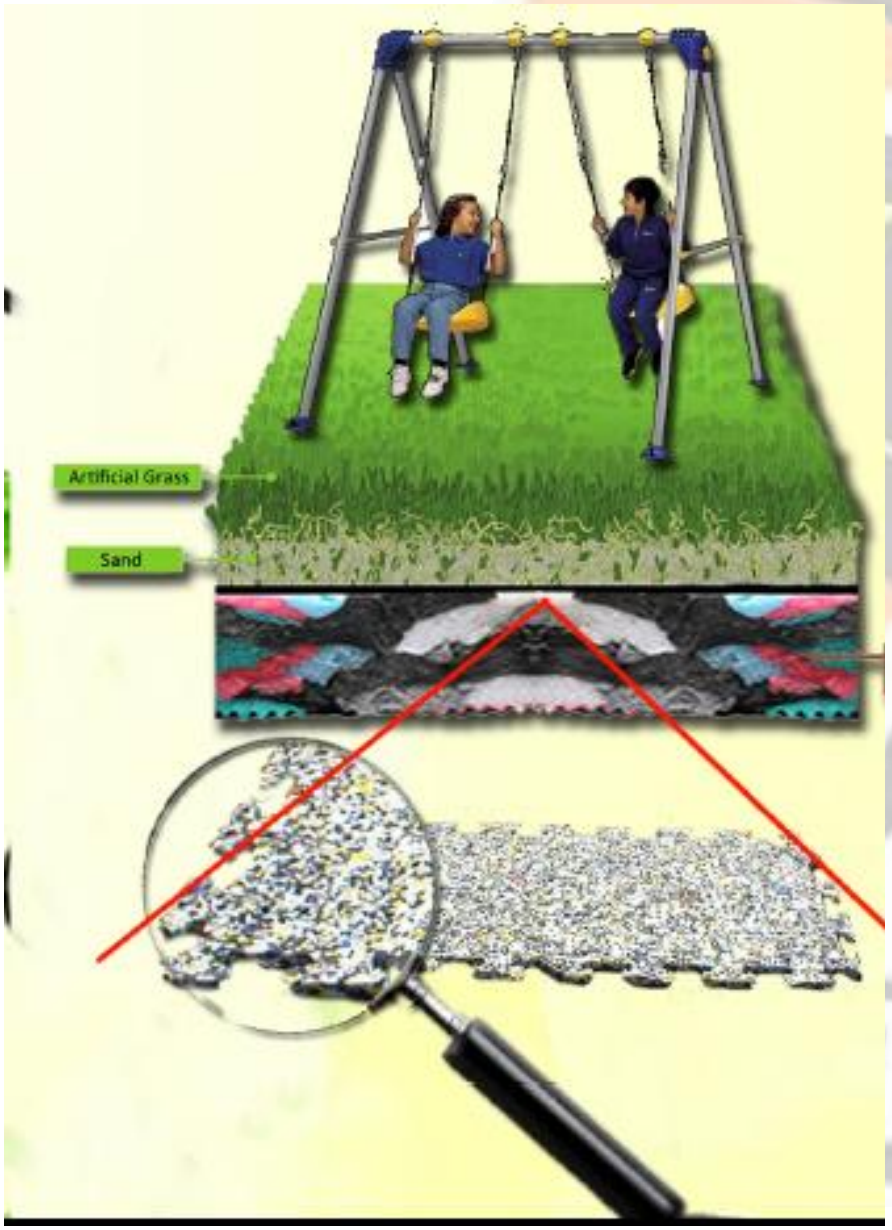


APPLICATIONS

PAD 25/80

Thickness: 25mm

Type of material: perforated, puzzle form

Measures plate: 194,6 x 101

Density kg/m3: 80 Kg/m3

Sqm for each plate: 1,75 mq

Plate for each pallet: 100 plate each

Sqm for each pallet: 175 mq

HIC:
1,20 meters
Maximum
Height fall

APPLICATIONS

PAD 35/80

Thickness: 35mm

Type of material: perforated, puzzle form

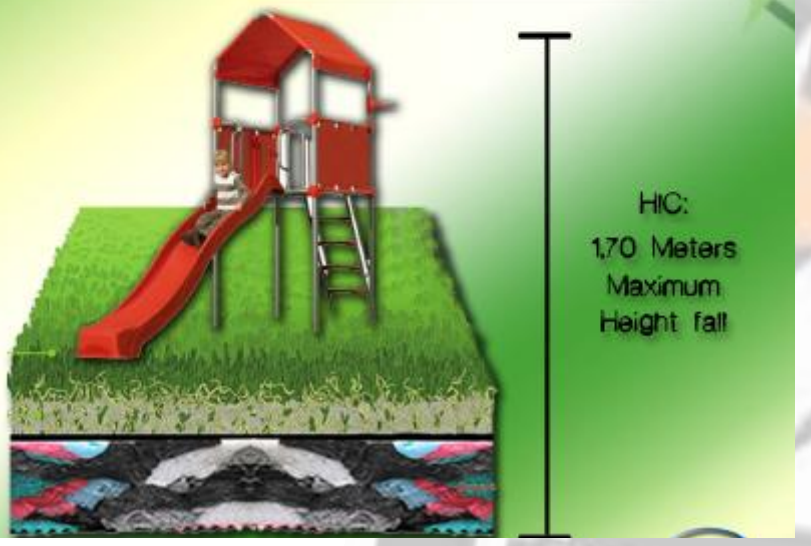
Measures plate: 194,6 x 101

Density Kg/m3: 80 Kg/m3

Sqm for each plate: 1,75 mq

Plate for each pallet: 70 plate each.

Sqm for each pallet: 112,50 mq



APPLICATIONS

PAD 45/80

Thickness: 45mm

Type of material: perforated, puzzle form

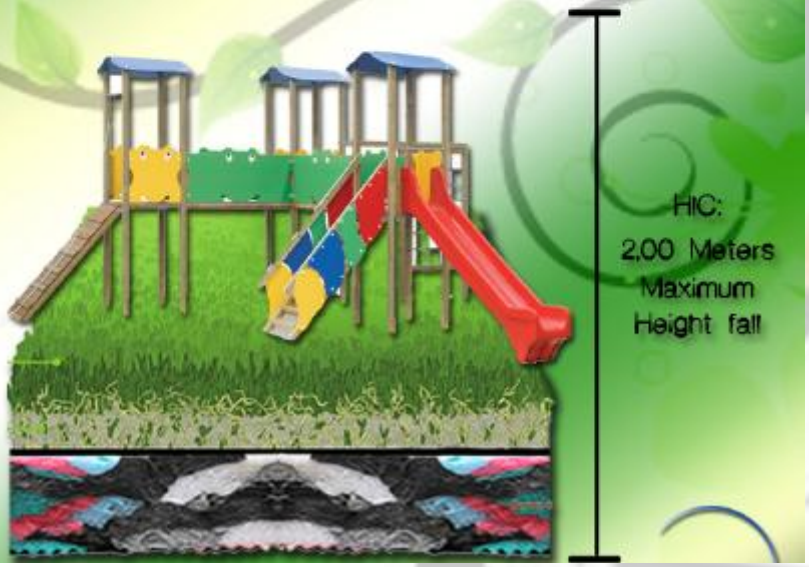
Measures plate: 194,6 x 101

Density Kg/m3: 80 Kg/m3

Sqm for each plate: 1,75 mq

Plate for each pallet: 55 plate each

Sqm for each pallet: 96,25 mq



APPLICATIONS

PAD 35/80 x 2 (70mm)

Thickness: 35mm

Type of materiat perforated, puzzle form

Measures plate: 194,6 x 101

Density Kg/m3: 80 Kg/m3

Sqm for each plate: 1,75 mq

Plate for each pallet: 70 plate each

Sqm for each pallet: 112,50 mq

HIC:
2,60 Meters
Maximum
Height fall

APPLICATIONS
PAD 45/80 x 2 (90mm)
Thickness: 45mm
Type of material: perforated, puzzle form
Measures plate: 194,6 x 101
Density Kg/m3: 80 Kg/m3
Sqm for each plate: 1,75 mq
Plate for each pallet: 55 plate each.
Sqm for each pallet: 96,25 mq
3 metri
HIC:
3,00 Meters
Maximum
Height fall