

## PORPLASTIC*ET* **soft / solid**

Elastic wearing layer for PORPLASTIC*GREEN* systems

### SYSTEM with ET



PORPLASTIC*GREEN*

Filling with  
PORPLASTICEPDM  
and sand

PORPLASTIC*ET*

Unbound wearing layer  
(rough and fine gravel)



- Total elasticity** of the system depends on
1. elasticity of PORPLASTIC*GREEN* artificial turf
    - pile height
    - amount and quality of filling material
  2. elasticity of PORPLASTIC*ET* **soft or solid**
    - layer thickness
    - sub-base

### MODULAR SYSTEM

Artificial turf	PORPLASTIC <i>GREEN</i> artificial turf Pile height 35 – 50 mm Filled with PORPLASTICEPDM granules and sand	
	PORPLASTIC <i>EL</i> elastic layer (approx. 15-30 mm)	OR Elastic wearing layer PORPLASTIC <i>ET</i> 35 <b>soft / solid</b> or PORPLASTIC <i>EL</i> 25 /30
Sub-base	Bound wearing layer (asphalt) (approx. 25-50 mm)	
	Unbound layer (0/32 mm, > 200 mm)	
	Filter layer (> 60 mm)	
Sub-base		

### ADVANTAGES

- increased elasticity of artificial turf fields
- less stress on musculoskeletal system of athletes
- no deformations in goal
- high quality materials and still economic price
- high elasticity included automatically in the PU-binder
- good shock absorption
- weather-stable
- water-permeable constructions for all climates
- long lifetime

## PORPLASTICET

### APPLICATION AND CONSUMPTION

Layer Thickness [mm]	Product	consumption (kg/m <sup>2</sup> )
Elastic layer	Application with paver	
PORPLASTICET35 <i>soft</i>	binder: PORPLASTIC T775 approx. 6 - 7 %  SBR/quartz mixture: PORPLASTIC SBR (2 – 7 mm) 50 parts by weight (up to ¼ of the SBR granules can be replaced by SBR fibre) filling material (chippings, dry, 2-8 mm) 50 parts by weight	Mixture : 40 kg/m <sup>2</sup>
PORPLASTICET35 <i>solid</i>	binder: PORPLASTIC T775 approx. 6 - 7 %  SBR/quartz mixture: PORPLASTIC SBR (2 – 7 mm) 13 parts by weight (up to ¼ of the SBR granules can be replaced by SBR fibre) filling material (chippings, dry, 2-8 mm) 87 parts by weight	Mixture : 44 kg/m <sup>2</sup>

### WORKING CONDITIONS

- Relative humidity:** between 40-90 %
- Temperature:** between 10-35°C
- Thickness:** +/- 15%
- Evenness:** as sub-base (see underneath)

### SUBBASE

- (according to DIN V 18035-7: 2002-06)
- Minimum thickness:**  
unbound wearing layer: 200 mm
  - Water permeability:** > 0,02 cm/s
  - Slope:** max. 0,8%
  - Nominal height tolerance:** +/- 15 mm
  - Height tolerance at edges:** +/- 15 mm
  - Evenness:**  
Deflection limit at a measuring point interval of  
1 m ≤ 4 mm                      2 m ≤ 6 mm  
3 m ≤ 8 mm                        4 m ≤ 10 mm



### TECHNICAL DATA

Layer / thickness	Water permeability [cm/s]	Tensile strength transverse [N/mm <sup>2</sup> ]	Shock absorption [%]	Shock absorption system [%]
<b>requirement</b> DIN V18035-7	> 0,002	> 0,08	only EL (without turf)	with turf 45-70%
FIFA 1 star				55-70%
FIFA 2 star				60-70%
<b>PORPLASTIC ET35</b>	0,24	0,09	55	65% (EL+42 MS reflex)

Remark: for further information please refer to the product data sheets or contact our technical service. All data are approximate values. Therefore no liability claims can be derived from the system data sheet. As all PORPLASTIC data sheets are updated on a regular basis it is the users responsibility to obtain the most recent issue (see [www.porplastic.com](http://www.porplastic.com) or contact us directly). - Date of issue: Feb. 2016 – all technical information is subject to change without prior notice