

# DipsBoard (k=0.029)

Insulation, Drainage, Waterproofing Protection & Passive Irrigation Boards

(Available in Graphite Enhanced Neopor & Standard EPS)



## Roof Garden & Planter Applications

Man-7: Waste Management Compliant  
Emi-4: Insulant ODP Compliant

**DipSystems**  
Insulation 

#### Physical Address

Number 3  
6th Avenue  
Maraisburg, Randburg  
Gauteng, South Africa

#### Contact details

Tel: +27 11 472 8051  
Fax: +27 86 679 4271  
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Website: [www.dipsystems.co.za](http://www.dipsystems.co.za)



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DipsBoards are the perfect solution for new and retrofit roof, above parking and balcony gardens in retail, office, flat, hospital, airport, hotel and residential property developments.

**DipsBoards are made of Neopor, a graphite-enhanced material developed by BASF.**

- ✓ Cost-effective
- ✓ Durable and long lasting
- ✓ Rot and aging resistant
- ✓ Water-repellent
- ✓ Low moisture absorption
- ✓ Diffusion-open
- ✓ Sturdy and dimensionally stable
- ✓ Environmentally friendly
- ✓ Eco-efficient
- ✓ Light weight and easy to handle
- ✓ Dust-free and easy to install
- ✓ Non-irritating to the skin

## Key Design Benefits

### Eco Friendly Insulation

Dipsystems graphite-enhanced passive irrigation boards are made of Neopor which does not contain CFCs, HCFCs, HFCs, or other halogenated cell gases. Neopor contains air as cell gas, which guarantees the preservation of the thermal insulation throughout the life of the construction.

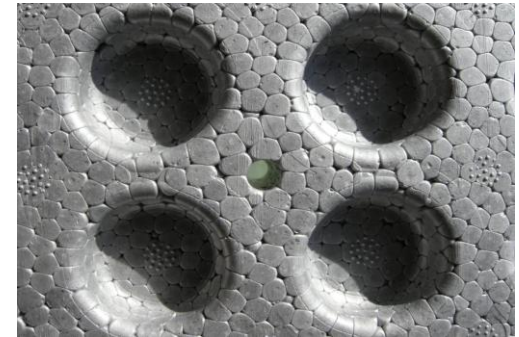
### Thermally Efficiency

DipSystems graphite-enhanced passive irrigation boards offer architects, planners, craftsmen, and builders, significant advantages in the building practice. The graphite infrared absorbers or reflectors considerably reduce thermal conductivity, and the permeability of the material with regard to heat is lower than in normal insulating boards.

### Thermal Conductivity

Vastly improved insulating effects can be achieved with DipSystems graphite-enhanced passive irrigation boards, particularly with very low bulk densities. At 15 kg /m<sup>3</sup>, Neopor achieves conductivity of 0.029 W/(m·K). Compared to the 0.035 W/(m·K) of conventional EPS.

## Passive Irrigation & Drainage



**Moulded water-retention cups store rainwater for dry spell passive irrigation**



**Moulded drainage channels significantly improve roof drainage**

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## Standard Specification for BOQ:

**“DipSystems Graphite-Enhanced, Passive Irrigation Board , Density 18-36kg/m<sup>3</sup>, 1260 mm by 875mm and ( \_ ) mm thickness.”**

*Detailed applications specific specifications will be provided on request.*

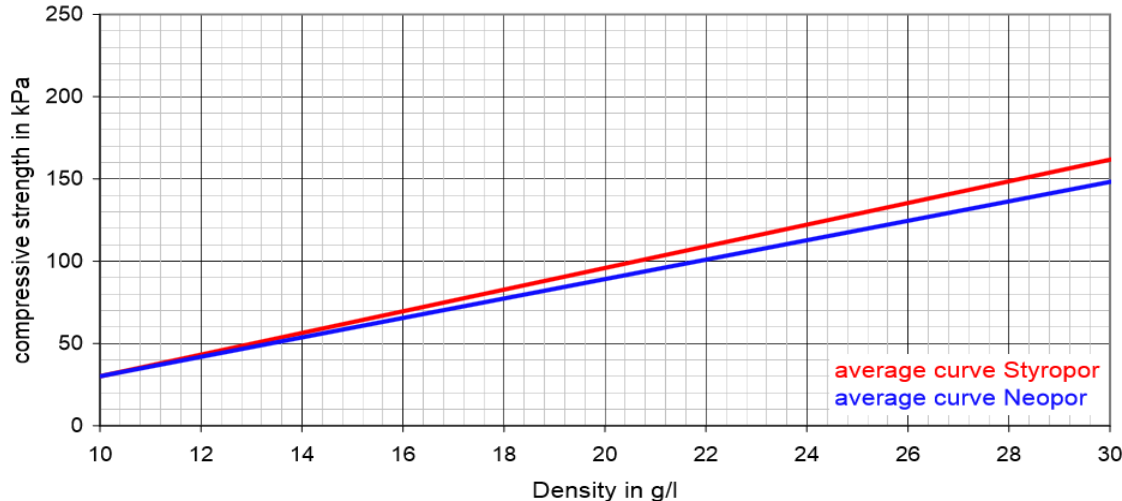
## Board Description

- ✓ Size: 1260 X 875 mm
- ✓ Area: 1.120 M<sup>2</sup>
- ✓ Edge: Lap Jointed
- ✓ Drainage Capacity: 10 L / M<sup>2</sup>
- ✓ Water Storage Capacity: 3.2 L / M<sup>2</sup>
- ✓ Colour: Grey
- ✓ Material: Graphite-Enhanced EPS (Neopor)

## Board Laying Procedure

- ✓ Lay boards loose on surface
- ✓ Align drainage slots with fall
- ✓ Join boards using ship laps
- ✓ Lay PT115 woven filter fabric
- ✓ Lay growing medium
- ✓ Add sufficient plants
- ✓ Do not over water garden

## Board Compressive Strength (kPa)



## R-Values by Board Thickness (mm)

Density(kg/m <sup>3</sup> )	Thickness(mm)	R Value
18 -24	30	1.034
18 -24	35	1.207
18 -24	40	1.379
18 -24	45	1.552
18 -24	50	1.724
18 -24	55	1.897
18 -24	60	2.069
18 -24	65	2.241
18 -24	70	2.414
18 -24	75	2.586
18 -24	80	2.759
18 -24	85	2.931
18 -24	90	3.103
18 -24	95	3.276
18 -24	100	3.448

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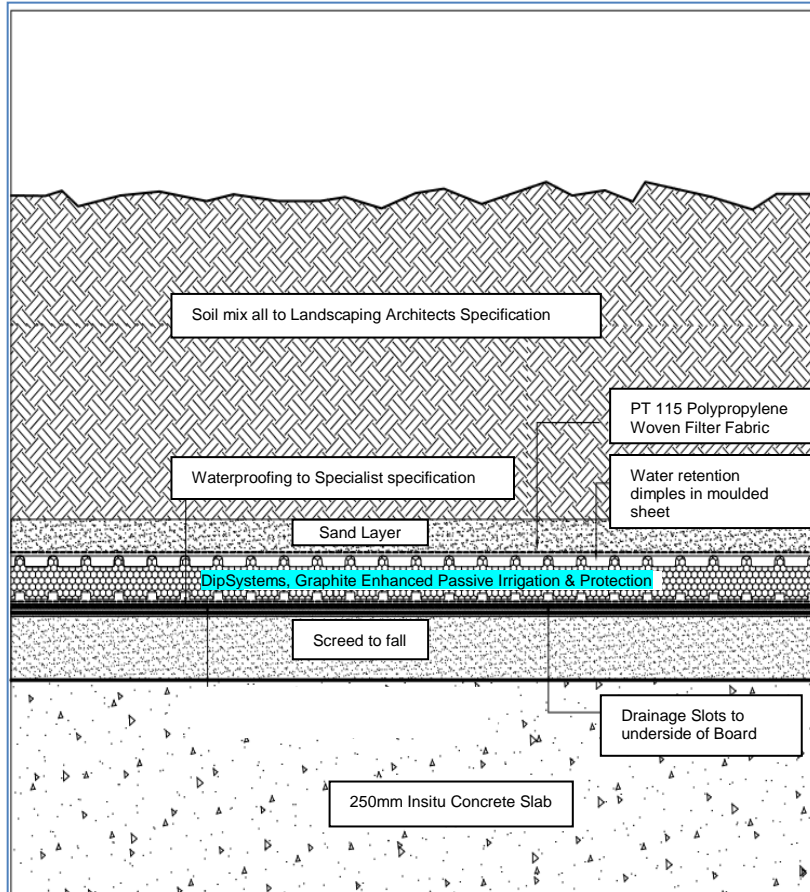
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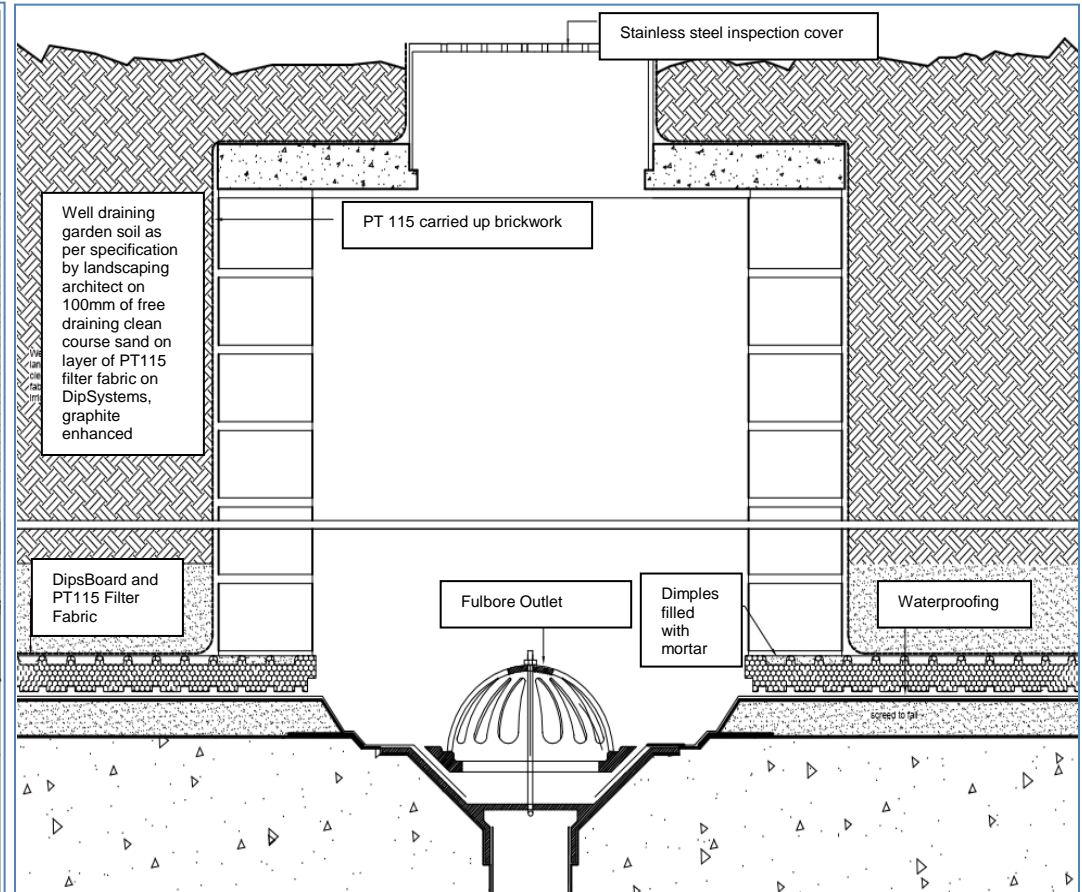
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Roof Detail



Outlet Detail



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