

# Technical Data Sheet



Date May 2016  
Replaces Aug 2012

## Drainage sheet NPX Tanking and Waterproofing Protection and drainage material

**Description** A dimpled polypropylene sheet with an adhered filter fabric for vertical and horizontal protection and drainage of waterproofing membranes such as Nuplex Bituthene or Soprema membranes.

### Application areas:

- Protection of Tanking: DPM or below grade tanking (walls buried below ground).eg Bituthene 3000 prevents water from entering the wall or building structure from the ground.
- Protection and drainage of under horizontal roof & floor slabs
- Protecting waterproofing membranes on buried structures from fill damage and providing drainage. Eg Jardin System
- Against masonry, precast or poured in-situ concrete, Polystyrene faced blocks

### Properties

Property	Result
Material	HDPE Star drain V
Draining / filter fabric	Needle punched polypropylene
Colour	Black, fabric is grey
Compression	320 KN/m <sup>2</sup> 32t/m <sup>2</sup>
Tissue weight	110g/m <sup>2</sup>
Stud height	7mm
Studs per m <sup>2</sup>	1860 approx
Air volume between studs	5 L/m <sup>2</sup> approx.
Drainage capacity	4.6 L/m <sup>2</sup>
Chemical resistance	Resistant to most chemicals, non-polluting
Combustion class	F-DM 15/03/05
Roll size m	2 x 20m
Rolls per pallet	6
Dimensional Tolerance	+/- 4%
Thermal stability	Stable -40 to +80c protect from UV

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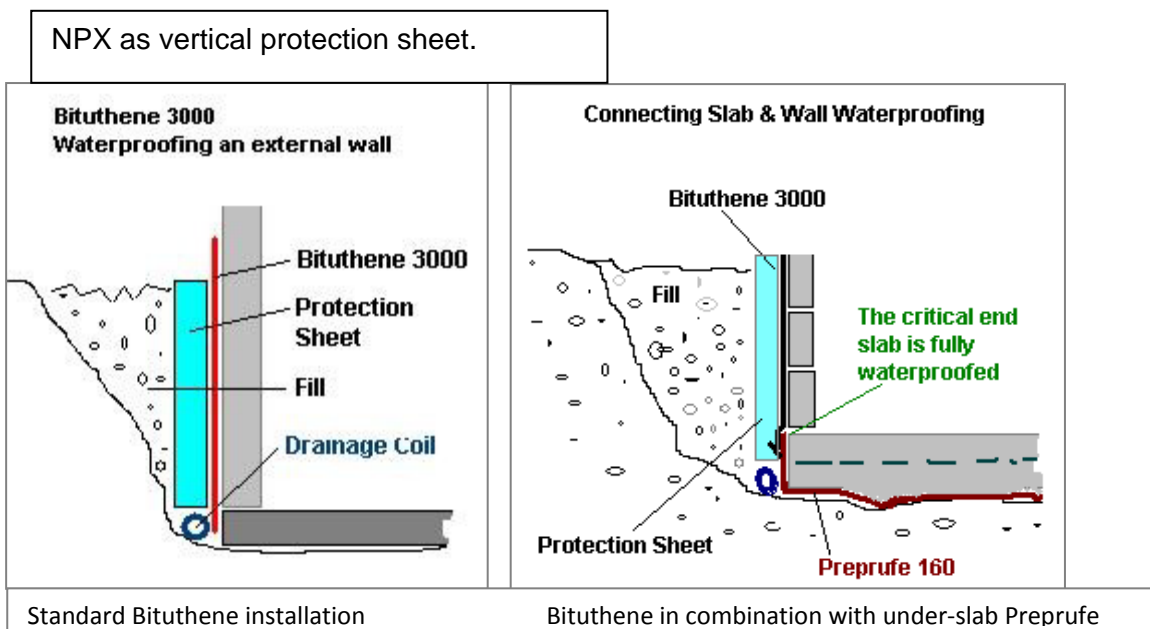
## Installation

- Install waterproofing membranes eg Bituthene 3000 or multiple layers of Nuplex Jardin system for buried structures.
- Seal all penetrations using LM 3000 - Install protection board, **Drainage Sheet NPX**, prior to top-filling or backfilling. Hold in place with mastic or sandbag on horizontals. Back fill as required.
- Complete top edge with hammered down tight Naplok as in image on page 3. This also functions as the Bituthene termination strip.
- Protect exposed membrane from UV using Bituthene Solarshield, Soprema Soprasolin or other suitable protection. Nuplex Cural Aluminium finish may be used. This may be subsequently coated with acrylic coatings if required.

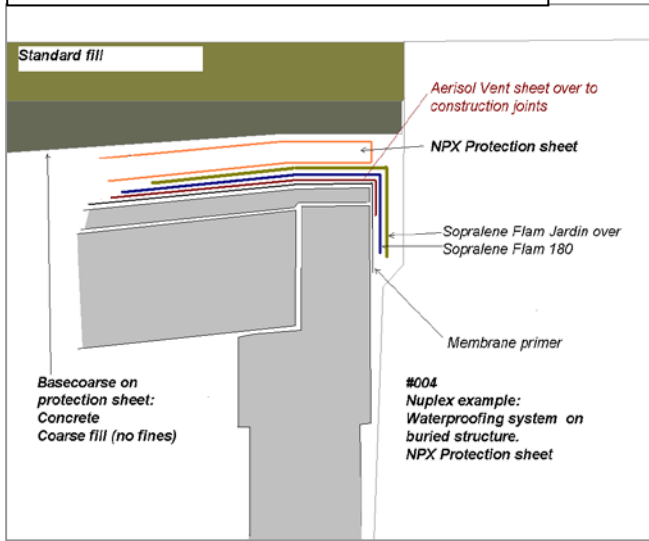
## Note the following:

Nuplex recommend Licensed Nuplex Contractors who are members of The Nuplex Contractors Federation; lists are provided from Nuplex .

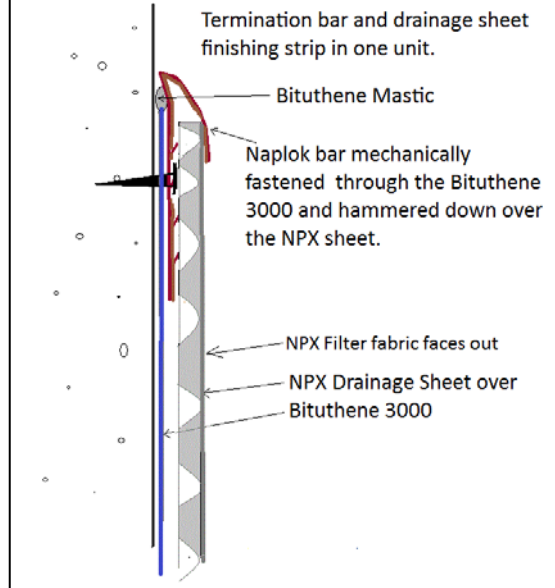
- If a concrete wet mix is being applied over the NPX as solid protection , consider using Polyethylene sheet as a slip layer and to prevent wet slurry clogging the NPX cells.
- In rugged environments, with rough fill, consider overlapping the NPX by 150mm to prevent coarse aggregate entering via the sheet gap and damaging the waterproofing..
- Ensure the NPX remains stable during the fill process.
- Consider the construction traffic on The NPX during back filling.



## Standard Buried Structure detail



## Nuplex Waterproofing Systems



- Naplok Termination Bar
- NPX Drainage
- Bituthene 3000
- Primer

