

Rail Geosynthetics

PRODUCT LIST



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 **TERRAM**
Geosynthetics you can trust

TERRAM Rail PRODUCT Overview

TERRAM's PW range of geosynthetics perform up to four functions when used in trackbed construction:

- SEPARATION to maintain the integrity of adjacent soil types i.e. prevent intermixing.
- FILTRATION to prevent leaching of soil particles.
- DRAINAGE to allow the free passage of water.
- REINFORCEMENT to provide additional strength.

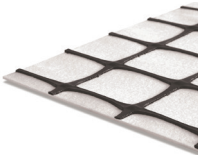
PW1



TERRAM PW1 trackbed separator is designed to maintain separation between the adjacent sand/ballast layers within the trackbed construction, preventing the upward movement of fine sub-grade particles.

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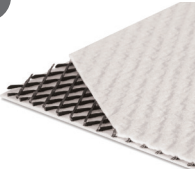
PW4-LA



TERRAM PW4-LA is a reinforced trackbed separator used where the sub-grade is weak, i.e. soft and boggy conditions. It combines a filter/separator geotextile and reinforcement geogrid.

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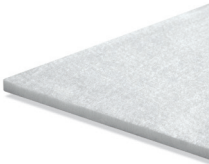
PW2



TERRAM PW2 is a robust trackbed separator used where the sub-grade soils are good but contain angular stone. PW2 is also a drainage-enhancing composite used in wet conditions where poor drainage or a high water table exists.

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PW9



TERRAM PW9 is a robust separator used where the sub-grade soils are good but contain angular stone. This angular stone could damage a standard geotextile, so a robust geotextile is essential.

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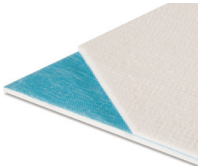
PW3.1



TERRAM PW3.1 is a specialist drainage composite with one impermeable side, which enables a barrier between water and formation where required. It comprises of a high quality black LDPE impermeable membrane, a drainage net and TERRAM PW1.0 geotextile.

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Hydrotex™



TERRAM Hydrotex™ provides a permanent way solution for areas where clay pumping can cause a loss of trackbed stability. It removes the requirement for a sand blanket.

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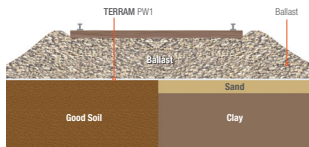
To find out more about any of these products, email: info@terram.com or call 01621 874200

PW1

Trackbed Separator

TERRAM PW1 trackbed separator is designed to maintain separation between the adjacent sand/ballast layers within the trackbed construction, preventing the upward movement of fine sub-grade particles.

- Needle-punched geotextile
- Suitable for good granular sub-grade soil
- Can be used as separation between ballast and a sand blanket
- High puncture and abrasion resistance
- High permeability properties



Scenario 1
Good soil sub-grade

Scenario 2
Clay sub-grade and sand blanket



Roll Width (m)	Length (m)	Area m ²	TERRAM Code	PADs Code
2	50	100	153725	0057/100568
3.5	25	87.5	157600	0057/100560
3.5	50	175	155439	0057/100569
3.7	25	92.5	157617	0057/100559
3.9	25	97.5	157532	0057/100555
4	25	100	152926	0057/100567
4	50	200	152919	0057/100561

PW2

Robust Trackbed Separator

TERRAM PW2 is a robust trackedbed separator used where the sub-grade soils are good but contain angular stone. PW2 is also a drainage-enhancing composite used in wet conditions where poor drainage or a high water table exists.



- Suitable for sub-grades containing angular stone
- Prevents sub-grade erosion
- Incorporates a geonet sandwiched between two geotextile layers



Roll Width (m)	Length (m)	Area m ²	TERRAM Code	PADs Code
2	25	50	153732	0057/100777
3.5	25	87.5	157570	0057/100637
3.7	25	92.5	157587	0057/100636
3.9	25	97.5	157594	0057/072410
4	25	100	153749	0057/100638

PW3.1

Trackbed Drainage Geocomposite

TERRAM PW3.1 is a specialist drainage composite with one impermeable side, which enables a barrier between water and formation where required. It comprises of a high quality black LDPE impermeable membrane, a drainage net and TERRAM PW1.0 geotextile.

- Intercepts water
- Drains laterally into side drains
- Maintains good dry sub-base conditions



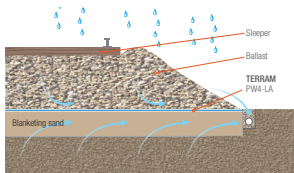
Roll Width (m)	Length (m)	Area m ²	TERRAM Code	PADs Code
4	50	200	166282	0057/100715
4	25	100	-	-

PW4-LA

Reinforced Trackbed Separator

TERRAM PW4-LA is a reinforced trackbed separator used where the sub-grade is weak, ie. soft and boggy conditions. It combines a filter/separator geotextile and reinforcement geogrid.

- Suitable for weak sub-grade soils (soft & boggy conditions)
- Helps to improve track life by stiffening ballast laid over weak ground
- Improves load-bearing capacity



Roll Width (m)	Length (m)	Area m ²	TERRAM Code	PADs Code
1.9	25	47.5	157983	0057/100644
3.8	25	95	153435	0057/100779

PW9

Robust Trackbed Separator

TERRAM PW9 is a robust separator used where the sub-grade soils are good but contain angular stone. PW9 is a next generation separator, used where there is a significant amount of coarse granular particles 14mm and above.



- Suitable for good soils containing angular stone
- Robust non-woven geotextiles protect the separation function
- Separates ballast and angular sub-bases



Roll Width (m)	Length (m)	Area m ²	TERRAM Code	PADs Code
1.95	25	48.75	-	-
3.5	25	87.5	161461	0057/072424
3.7	25	92.5	161454	0057/072425
3.9	25	97.5	161447	0057/072426
3.9	50	195	161409	0057/072440
3.9	100	390	161362	0057/072439
4	25	100	161430	0057/072441
4	50	200	161393	0057/072423
4	100	400	161355	0057/072427

HYDROTEX™

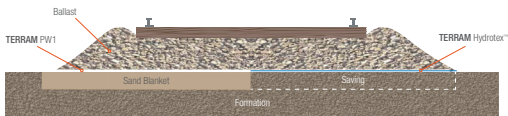
Trackbed Separator for Clay Pumping

TERRAM Hydrotex™ provides a permanent way solution for areas where clay pumping can cause a loss of trackbed stability. It removes the requirement for a sand blanket.



- Acts as a filter/separator for fine soils
- Removes the requirement for a sand blanket
- Prevents upward particle passage
- Allows upward and downward water transmission

Allows for significant savings in possession time



Roll Width (m)	Length (m)	Area m ²	TERRAM Code	PADs Code
1.95	25	48.75	160037	0057/100408
3.5	25	87.5	156542	0057/100403
3.7	25	92.5	156528	0057/100402
3.9	25	97.5	154845	0057/100401
3.9	50	195	154876	0057/100405

Notes

Notes



Application specific literature, product data sheets, case studies and installation guides are available on request or can be freely downloaded from www.terram.com

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TERRAM excels in the innovative application of technology to create versatile, high-performance materials which are unique, cost-efficient and deliver significant added value.

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