

Plastic Extruders Ltd

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PRODUCT DATA SHEET; MATTING, FLOORING & TILES

Sep-16

Sizes & weights		Length Tolerances 0/+0.3 m	Height +/-0.5 mm	Widths			Weight kg/m ²	Module dimensions (cm)	
				+/- 1 *(FEFS 0 to +2) cm					
<i>All dimensions are nominal</i>									
Roll grid products	Crossgrip PVC	10	14	60	91	122	6.6		
	Crossgrip TPO	10	12		75		5.2		
	Firmagrip	10	14	60	91	122	10.5		
	Flexigrid	5 & 10	20	60	91		9.8	180 x 60, 180 x 91	
	Floorline	10	6	60	91		3.7		
	Frontrunner Entrance Flooring System				*(FEFS 0 to +2)				*(FEFS 0 to +2)
	Frontrunner Entry	10	14	60	91		10.5	80 x 120, 100 x 150, 110 x 200	
	Frontrunner Entry	5	14			120	10.5		
	Frontrunner Entry - Low profile	10	10	60	91		8.7		
	Frontrunner Entry - Low profile	5	10			120	8.7		
	Frontrunner XT	10	14	60	91		10.5		
	Frontrunner XT	5	14			120	10.5		
	Frontrunner Plus	10	14/16	60	91		10.5	80 x 120, 100 x 150, 110 x 200	
	Frontrunner Plus	5	14/16			120	10.5		
	Frontrunner Plus - Low profile	10	10/12	60	91		8.7		
	Frontrunner Plus - Low profile	5	10/12			120	8.7		
	Frontrunner SB	10 & 20	6.5		100		6.3		
	Frontrunner SB+	10 & 20	6.5/8		100		6.3	100 x 150	
	Frontrunner Brush	10	14/19	60	91		12.7	80 x 120, 100 x 150, 110 x 200	
	Frontrunner Brush	5	14/19			120	12.7		
	Frontrunner Brush Wide	10	14/19	60	91		12.7	80 x 120, 100 x 150, 110 x 200	
	Frontrunner Brush Wide	5	14/19			120	7.5		
	Heronair	10	9	50	75	100	4.5		
	Herongripa	5 & 10	15	60	91	122	4.5		
	Heronrib	10	10	50	100	122	5.5		
	HVD	10	13	60	91	122	6.9		
	PillogriD	5 & 10	20		91	100	7.1		
	PillogriD Wide	5 & 10	20		91	100	6.3		
	Pillomat	10	8	60	91		3.1		
	Vynagrip	5 & 10	15	60	91	122	7.6	80 x 120, 100 x 150	
Vynagrip Plus	10	15	60	91	122	7.6			
Vinyl sheet products	Flexi Dot/Eco Dot	25	1.6		98		2.4		
	Flexi Dot Extra/Eco Dot Extra	20	2.5		98		3.8		
	Flexi Coin/Eco Coin	25	1.6		98	150	2.4		
	Flexi Button	20	3.3		98		4.3		
	Flexi Line	25	2		100		2.2		
	Flexi Ridge	20	2.8		100		2.5		
	Flexi Tred	10	4		100		4.2		
	Grip Rock	1.5 & 12	3		91		4.1	91 x 152	
Foam products	Sparksafe	18	10		91		5.8	91 x 60/150	
	Tuff Spun	18	9	60	91	122	3.3	91 x 60/150/300	
	Tuff Spun Plus	18	9		91		3.3	91 x 60/150/300	
	Tuff Spun Wear	18	13		91		4.0	91 x 60/150/300	
	Zed Chex/Zed Chex Plus	18	13		91		7.4	91 x 60/150/300/600	
	Zed Land	18	9		91		3.3	91 x 60/150/300	
	Zed Tred	10	13		100		7.8	100 x 150/330/500	
Tile products	Herontile	Tile	15	33cm x 33cm			4.5		
	Plastex Chex	Tile	14	50cm x 50cm			3.6		
	Plastex Grid - Open	Tile	25	50cm x 50cm			3.6		
	Plastex Grid - Closed	Tile	25	50cm x 50cm			4.4		
	Plastex Lok	Tile	16	50cm x 50cm			4.4		

General

APPEARANCES

Roll grid products: Open grid "duckboard" design with textured surface.

Vinyl sheet products: Continuous sheet format with ribbed/circled patterns or grit surface

Foam products: Single layer foam or foam thermally fused* to top wear layer.

* Sparksafe is glued together.

Tile products: Open grid and closed/continuous surface.

COLOURS

All products available in many homogeneous stable colours. Red colour is not colourfast in direct sunlight.

WORKABILITY

Available in rolls, modules or tiles for ease of installation. Easy to cut to size and shape.

DURABILITY	<p>Roll grid products: One piece welded construction for maintenance free life.</p> <p>Vinyl Sheet products: Continuous extruded sheet with high scuff resistance.</p> <p>Foam products: Extruded vinyl foams*. 2 part mats are thermally fused. * Sparksafe is 100% rubber.</p> <p>Tile products: Moulded EVA LLDPE or recycled PVC construction.</p>		
USES	All locations, from highest hygienic area to heavy industrial areas, both indoor and outside.		
<u>Technical data</u>			
ACOUSTIC	PVC Grids & Foam Products: Excellent sound absorption properties.		
ANTI-FATIGUE	<p>Vynagrip: University of Hertfordshire 1997; Evaluation of Anti Fatigue properties by self reports, sustained attention and electromyography measurements. Result: - 10% fatigue reduction.</p> <p>Foam products: Resilience ASTM 2362 Sparksafe = 35 Zed Land = 33 Zed Chex & Zed Tred = 23</p>		
CHEMICAL	<p>PVC - Grid, Sheet & Tile products: Resistant to most acids, alkalines and oils. For specific chemical resistances, see www.plastexmatting.com/uploads/4/4/0/0/44003899/pvc-chemical-resistance.pdf</p> <p>EVA, LLDPE Tiles: Resistant to most acids, alkalines and oils.</p>		
COMPOSITION	<p>PVC Grid & Sheet products: Flexible DINP plasticised Polyvinyl Chloride (PVC).</p> <p>Foam products: Vinyl foam/vinyl wear layer except Sparksafe which is rubber foam/rubber wear layer.</p> <p>Tile products: Herontile = EVA, Plastex Grid = LLDPE, Plastex Chex/Plastex Lok = 100% DINP recycled PVC</p> <p>Absorbent inserts for Fronrunner Plus and Fronrunner SB+: refer to Fronrunner product data sheet.</p>		
ELECTRICAL	BS 2782: Part 2 Method 230A	Insulation resistance	Electric strength
	Grid matting* :		
	Flexigrid	> 2000M Ω	= 14,800 volts
	Vynagrip	> 2000M Ω	= 12,600 volts
	HVD	> 2000M Ω	= 11,300 volts
	Pillomat	> 2000M Ω	= 8,500 volts
	Floorline	> 2000M Ω	= 7,000 volts
	* Caution: There is a risk that any conductive material passing through the grid will invalidate the electrical insulation properties.		
	Flexi Tred: DIN EN 60243-1: Breakdown voltage 27kV, Dielectric Strength 22.2kV/mm ²		
	Plastex Grid (Closed): Dielectric Strength 40kV/mm, 17,000 volts for 25mm thickness.		
ENVIRONMENT	<p>The European Community 2007 R.E.A.C.H** regulation gives manufacturers the responsibility of providing high level human and environmental protection from the use of chemicals in manufacturing. Plastex does not use any substances currently included on the SVHC (Substances of Very High Concern) list under REACH, in any matting products. All PVC grid products are 100% recyclable.</p> <p>**Registration, Evaluation, Authorisation and Restriction of Chemical substances</p>		
ELECTROSTATIC DISCHARGE (ESD)	Zed Land: ASTM D257 : Result 10 ⁹		
FIRE	<p>Flexi Tred: UL 94. Horizontal burning test. Classification 94HB.</p> <p>Fleximat range except Flexi Tred (see above): EN13501-1:2007 - Bfl S1</p> <p>Fronrunner Entry: EN ISO 13501-1:2007 - Bfl S1</p> <p>Fronrunner Entry, Fronrunner Plus and Fronrunner SB: ASTM E648 - Average Critical Radiant Flux - Class 1</p> <p>Other PVC grid products: EN ISO 13501-1:2007 - Cfl S1</p>		
LOAD RESISTANCE	ASTM F 2753:	227 kg (500 lbs) per wheel*. Result: After 1,000 passes, there was no apparent damage or effect to the vinyl portion of the system.	*Product used for the test was the lightest within the range, Fronrunner SB+
HYGIENE	<p>Grid & Sheet products: Non-porous 100% Virgin PVC - Inhibits the growth of bacteria.</p> <p>Plastex Grid: Non-porous 100% LLDPE - Inhibits the growth of bacteria.</p>		
Anti-bacteria	Herongripa, Heronrib, Herontile: SteriTouch additive; Test JIS Z 2801:2000 – Determination of the antibacterial effect against: Staphylococcus aureus		Result - Antimicrobial pass of >99%
	E. Coli		Result - Antimicrobial pass of >99.99%
Anti-fungal	Heronrib & Herontile: SteriTouch additive; Test method ASTM G21-96 - Determining resistance to fungi.		Result - Nil Growth after 4 weeks
PHOTOLUMINESCENT	Heronair Photoluminescent: DIN 67510 Part 1, after glow properties.		Result: 33.9 / 4.4 - 588 / w - k.
REVERSION	<p>Grid & Sheet products: Thermoplastic shrinkage can result in size reductions up to 2%. Accelerated in hot environments. Refer to www.plastexmatting.com/uploads/4/4/0/0/44003899/vinyl-matting-dimensional-stability.pdf</p>		
SLIP RESISTANCE	ASTM F 1677 (Dry/Wet);	Vynagrip (0.7/0.6)	Heronrib (0.6/0.54)
		Heronair (0.6/0.6)	Floorline (0.6/0.5)
		Pillomat (0.6/0.6)	Crossgrip PVC (0.6/0.5)
	DIN 51130	Crossgrip PVC R10,V10	Fronrunner Entry R11, V10
		Firmagrip R11,V10	Fronturrunner SB R11, V10
			Heronair R11,V10
			Herongripa R11,V10

Flexigrid R11, V10	Fronrunner SB+ R11, V10	Plastex Lok R12, V10
Flexi Tred R10, V8	Fronrunner XT R12, V10	Vynagrip R11, V10
Floorline R11, V10	Grip Rock R13, V--	

DIN 51097

Floorline Classification C

Heronrib Classification C

Herontile Classification C

THERMAL

Grid & Sheet products: Functional -23°C +60°C (slight size variation may occur at temperature extremes).
Plastex Grid: Functional from -60°C to + 70°C (slight size variation may occur at temperature extremes).

UV LIGHT

Grid & Sheet products: Resistant to PVC degradation; uncoloured PVC material - BS EN 607 = Delta E 1.02 (red colour is not colourfast in direct sunlight).

WARRANTY

1 to 5 years. See

www.plastexmatting.com/uploads/4/4/0/0/44003899/warranty.pdf

WEAR RATINGS

ASTM D4060 @ 1,000 cycles

Tuff Spun <1g

Tuff Spun Plus <1g

Tuff Spun Wear <0.3g

Zed Land <0.5g

WEIGHT RESISTANCE

Plastex Grid: Withstands 50 T/m².

WIND STABILITY

University Of Hertfordshire

Crossgrip PVC/TPO - In Laboratory conditions on a flat stable platform:

PVC Grid: remained stable in wind speeds up to 94mph (150 km/h);

TPO Grid: remained stable in wind speeds up to 88mph (142 km/h).