

Product code: IW5035, IW7535, IW10035, IW15035, IW20035

InfraWeb TRP (Tree Root Protection) is a 3 dimensional cellular confinement system used to construct vehicular access roads, parking areas etc around the RPA of existing trees. The system is manufactured in accordance with the original U.S. Army Engineers Corps specification and conforms to the requirements of BS5837 and APN12. The system is available in five depths 50mm, 75mm, 100mm, 150mm and 200mm.



UNIT TYPE	TEST METHOD	UNIT	VALUE				
<b>PHYSICAL PROPERTIES</b>							
Density	ASTM D1505	gr/cm <sup>3</sup>	0.950 ± 0.015				
Wall thickness (textured)	ASTM D5199	mm	min 1.25 ± 0.15				
Carbon black content (for black only)		%	2.0 ± 0.5				
Durability (to be covered within 1 month after installation)	Durability Assessment Report No. 90-15-0322 Date: 30.11.15		Predicted to be durable for a minimum of 50 years in natural soils with 4<pH<9 and soil temperature ≤ 25°C.				
Unit height		mm	50	75	100	150	175
Seam tensile peel strength	ASTM 4437	N/cm	>750	>1130	>1500	>2250	>3000
Minimum strength value	EN ISO 13426-1	Method A:					
		Tensile shear test	kN/junction	0.90	1.35	1.80	2.70
	EN ISO 13426-1	Method B:					
		Tensile shear test	kN/m	3.60	5.40	7.20	10.80
		kN/junction	0.75	1.13	1.50	2.25	3.00
		kN/m	3.00	4.50	6.00	9.00	12.00
Cell walls			Textured and perforated (11% ± 2%)				
Number of cells		#/m <sup>2</sup>	34.3				
Diagonal length		cm	24.2				
Cell wall length		cm	356				
Cell area		cm <sup>2</sup>	292				
Expanded unit width		m	2.42				
Expanded unit length*		m	8.0				
Coverage*		m <sup>2</sup>	19.3				
Unit weight*		kg	11.8	17.7	23.5	17.7	23.5

\* Other lengths, widths and coverage available on request. (Length, width and coverage dimensions are for square cells)

### Key Benefits

- No dig solution
- Reduces compaction of subsoil around tree roots
- Reduces subbase thickness
- Allows clean angular stone to be used within the cells
- Dissipates vertical loads
- Allows air and moisture transfer
- Can support any type of vehicle loading

### Applications

- Tree root protection

### Technical Support

Detailed guidance and assistance is available.

For further information, please contact our Technical Team on **+44 (0) 1509 615100** or email [civils@polypipe.com](mailto:civils@polypipe.com)

All descriptions and illustrations in this publication are intended for guidance only and shall not constitute a 'sale by description'. All dimensions and weights given are nominal and Polypipe may modify and change the information, products and specifications from time to time for a variety of reasons, without prior notice. The information in this publication is provided 'as is' on June 2018. Updates will not be issued automatically. This information is not intended to have any legal effect, whether by way of advice, representation or warranty (express or implied). We accept no liability whatsoever (to the extent permitted by law) if you place any reliance on this publication you must do so at your own risk. All rights reserved. Copyright in this publication belongs to Polypipe and all such copyright may not be used, sold, copied or reproduced in whole or part in any manner in any media in any person without prior consent. © Polypipe is a registered trademark of Polypipe. All Polypipe products are protected by Design Right under CDPA 1988. Copyright © 2018 Polypipe. All rights reserved.

### Polypipe Civils

Charnwood Business Park, Loughborough, Leicestershire LE11 1LE  
Tel: +44 (0) 1509 615100 Fax: +44 (0) 1509 610215 Email: [civils@polypipe.com](mailto:civils@polypipe.com)

[www.polypipe.com/wms](http://www.polypipe.com/wms)

