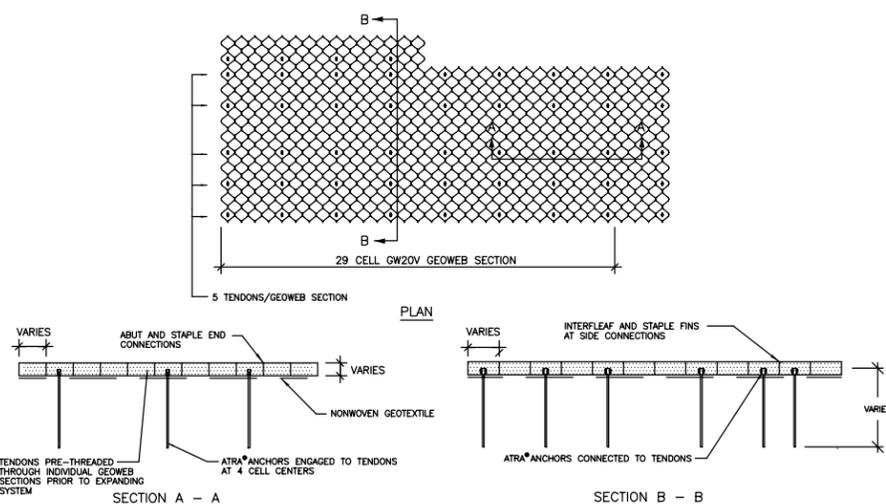
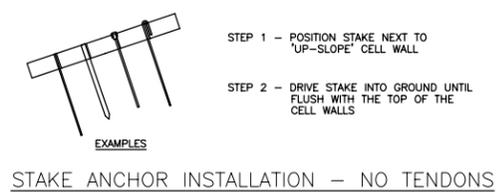


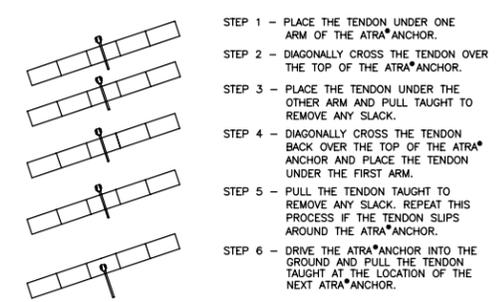
TYPICAL ATRA® ANCHOR SYSTEM



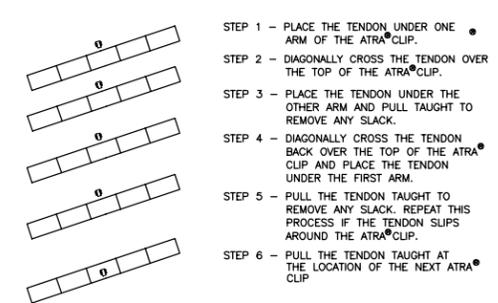
TYPICAL ATRA® ANCHOR AND TENDON SYSTEM



STAKE ANCHOR INSTALLATION - NO TENDONS



ATRA® ANCHOR INSTALLATION - WITH TENDONS



ATRA® CLIP INSTALLATION

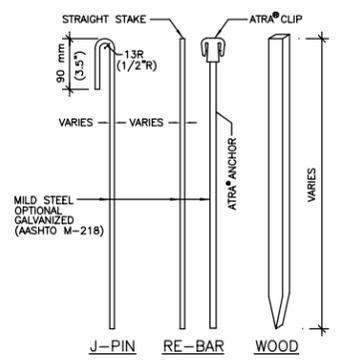
- NOTES:
- WHERE SPECIFIED BY DESIGN, ATRA® CLIPS (OR SUITABLE RESTRAINT PINS) MAY ALSO BE REQUIRED TO ANCHOR THE PROTECTION SYSTEM TO THE CREST OF STEEP SIDE SLOPES.
 - ATRA® CLIPS (OR RESTRAINT PINS) SHOULD ALSO BE PLACED AT THE ENDS OF GEOWEB SECTIONS TO PREVENT THE TENDONS FROM PULLING THROUGH THE GEOWEB SYSTEM.
 - STAKE SIZE AND SPACING, TENDON TYPE AND SPACING WILL VARY ACCORDING TO THE DESIGN REQUIREMENTS.
 - WHEN ATRA® CLIPS (OR RESTRAINT PINS) ARE REQUIRED IN CONJUNCTION WITH STAKE ANCHORS, STAKE ANCHORS SHALL BEAR AGAINST THE CELL WALLS RATHER THAN HOOKED OVER THE TENDONS.
 - REFER TO DRAWINGS GWWCH1E, GWGEN1E, GWGEN3E, GWSL1E, GWSL2E, GWSL3E, GWSL4E, GWSL5E AND GWSL6E FOR ADDITIONAL INFORMATION AND DETAILS.

GEOWEB SECTION SIZES

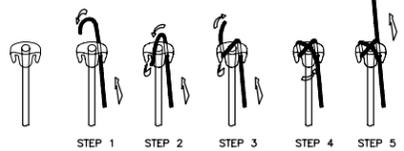
THE SECTION						
GW20V - 10 CELLS WIDE (FOR SLOPE & CHANNEL PROTECTION, AND LOAD SUPPORT)						
CELLS LONG	MINIMUM EXPANSION LENGTH		MAXIMUM EXPANSION LENGTH		NOMINAL AREA	
	ft	m	ft	m	ft ²	m ²
18	12.0	3.7	9.2	2.8	14.5	10.4
21	14.0	4.3			16.9	12.1
25	16.7	5.1			20.1	14.5
29	19.4	5.9			23.3	16.8
34	22.7	6.9			27.3	19.7
40	28.7	8.1			32.2	23.1

THE SECTION						
GW30V - 8 CELLS WIDE (FOR SLOPE & CHANNEL PROTECTION, AND LOAD SUPPORT)						
CELLS LONG	MINIMUM EXPANSION LENGTH		MAXIMUM EXPANSION LENGTH		NOMINAL AREA	
	ft	m	ft	m	ft ²	m ²
18	15.4	4.7	9.2	2.8	18.6	13.3
21	18.0	5.5			21.7	15.5
25	21.4	6.5			25.8	18.4
29	24.8	7.6			30.0	21.4
34	29.1	8.9			35.1	25.0
40	34.2	10.4			41.4	29.5

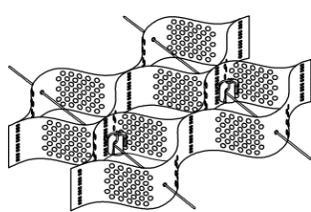
THE SECTION						
GW40V - 5 CELLS WIDE (FOR SLOPE & CHANNEL PROTECTION)						
CELLS LONG	MINIMUM EXPANSION LENGTH		MAXIMUM EXPANSION LENGTH		NOMINAL AREA	
	ft	m	ft	m	ft ²	m ²
18	25.4	7.7	9.1	2.8	30.8	21.7
21	29.6	9.0			36.0	25.3
25	35.2	10.7			42.8	30.2
29	40.9	12.5			49.7	35.0
34	47.9	14.6			58.2	41.0
40	56.4	17.2			68.5	48.3



TYPICAL STAKE DETAILS



MOORE HITCH DETAIL



TYPICAL TENDON DETAIL

GEOWEB® CELL SIZES

THE CELL	CELL DEPTHS mm (in)	NON-STANDARD 200 (8)	NOMINAL CELL AREA cm ² (in ²)	DIMENSIONS AT RECOMMENDED CELL EXPANSION RANGE	
				MINIMUM LENGTH cm (in)	MAXIMUM LENGTH cm (in)
CELL LENGTH CELL WIDTH GW20V	75 (3)	100 (4)	150 (6)	204 (8.02)	281 (11.07)
CELL LENGTH CELL WIDTH GW30V			460 (71.3)	289 (11.39)	360 (13.77)
CELL LENGTH CELL WIDTH GW40V			1206 (187.0)	457 (18.01)	556 (21.88)

NOTE: ALL DIMENSIONS ARE NOMINAL AND ARE SUBJECT TO MANUFACTURING TOLERANCES

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REVISIONS		
DATE	APPROVED	TITLE