



CURLEX® SEDIMENT LOG® EXCELSIOR SEDIMENT CONTROL DEVICE INSTALLATION GUIDELINES

Curlex Sediment Logs shall be installed to intercept water flow and collect sediment on site. Curlex Sediment Logs are typically installed lying flat on the ground and not trenched. Curlex Sediment Logs may be installed over bare soil or over rolled erosion control products. Curlex Sediment Logs should remain in place until fully established vegetation and root systems are present and can survive on their own. Sediment logs that are not removed from the jobsite will degrade in-place. They shall be secured to the subgrade by a 1 in by 1 in wood stake (typical) every two lineal feet across the length of the Sediment Log. The stakes shall be intertwined with the outer mesh only (on the downstream side only) and driven into the ground a minimum of 16 in. Six and nine inch Curlex Sediment Logs may also be anchored with E-Staple®, 1 in x 6 in, U-shaped, 11 gauge wire staples, or 2 in x 8 in, U-shaped, 8 gauge wire staples. Anchoring with staples shall not be used in channelized flow applications. Project specifications should be reviewed for any unique installation requirements.

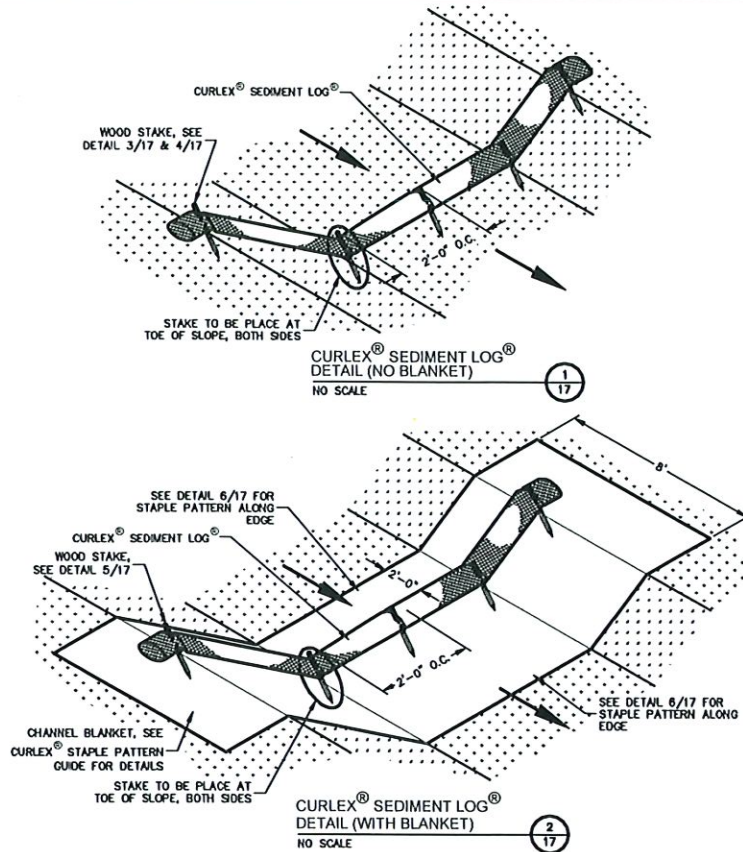
Curlex Sediment Logs shall be overlapped in channels requiring more than one unit across the channel width. Overlaps shall not be located in critical areas such as channel center, side slope channel bottom interface, etc.

Curlex Sediment Logs shall be located as shown on the plans or as directed by the project engineer. Typical applications of Curlex Sediment Logs include, but are not limited to:

- Perpendicular to the flow of water in ditch bottoms, swales, and waterways
- As wattles on slopes
- Around job sites for perimeter control
- Around inlets and outlets
- Project ingress and egress termination points
- All other filtering applications
- In place of bales, silt fence, and rock checks

Curlex Sediment Logs may be compressed when packaged, which reduces shipping costs for the end user. The shape of compressed Sediment Logs may not be perfectly symmetrical upon delivery to the jobsite; however, this does not alter the performance capability of Curlex Sediment Logs because unique Curlex fibers naturally expand upon wetting and return to the time of manufacture specified diameter and symmetrical tubular shape.

Disclaimer: Curlex Sediment Logs is a system for sediment control in channels and on slopes. American Excelsior Company (AEC) believes that the information contained herein to be reliable and accurate for use in sediment control applications. However, since physical conditions vary from job site to job site and even within a given job site, AEC makes no performance guarantees and assumes no obligation or liability for the reliability or accuracy of information contained herein, for the results, safety, or suitability of using Curlex Sediment Logs, or for damages occurring in connection with the installation of any erosion control product whether or not made by AEC or its affiliates, except as separately and specifically made in writing by AEC. These guidelines are subject to change without notice.



NOTES:

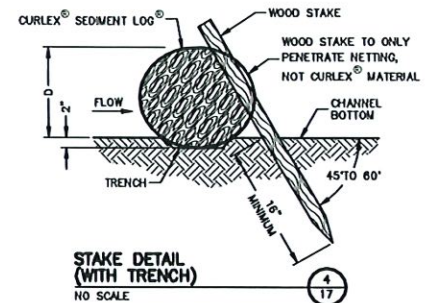
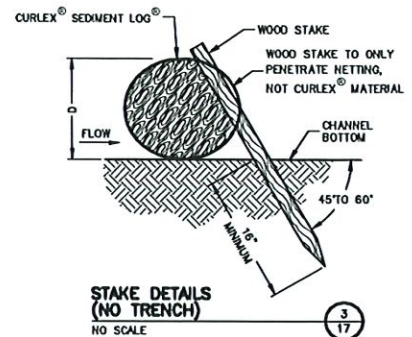
1. TRENCH OPTION IS MOST APPLICABLE IN LOOSE, UNCONSOLIDATED SOILS.
2. RECOMMENDED WOODEN STAKES ARE 1 1/8" X 1 1/8" X 30" FOR 6", 9", AND 12" CURLEX® SEDIMENT LOGS.
3. RECOMMENDED WOODEN STAKES ARE 1 1/8" X 1 1/8" X 48" FOR 20" CURLEX® SEDIMENT LOGS.
4. CURLEX® SEDIMENT LOG® SHALL BE OVERLAPPED IN CHANNELS REQUIRING MORE THAN ONE UNIT ACROSS THE CHANNEL WIDTH (SEE DETAIL 7/17).
5. OVERLAPS SHALL NOT BE LOCATED IN CRITICAL AREAS SUCH AS CHANNEL CENTER, SIDE SLOPE CHANNEL BOTTOM INTERFACE, ETC.

Curlex® Sediment Log® - Recommended Spacing In Channelized Flow Applications

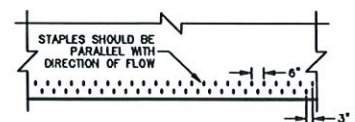
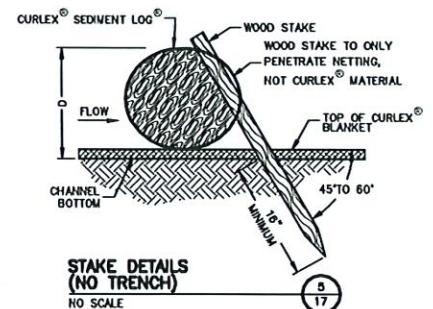
Channel Gradient (%)	Spacing Between Products (ft)			
	6 in Curlex® Sediment Log®	9 in Curlex® Sediment Log®	12 in Curlex® Sediment Log®	20 in Curlex® Sediment Log®
0.5	91.7	136.7	183.3	250.0
1	45.8	68.3	91.7	125.0
1.5	30.6	45.6	61.1	83.3
2	22.9	34.2	45.8	62.5
2.5	18.3	27.3	36.7	50.0
3	15.3	22.8	30.6	41.7
3.5	13.1	19.5	26.2	35.7
4	11.5	17.1	22.9	31.3
4.5	10.2	15.2	20.4	27.8
5	9.2	13.7	18.3	25.0
5.5	8.3	12.4	16.7	22.7
6	7.6	11.4	15.3	20.8
6.5	7.1	10.5	14.1	19.2
7	6.5	9.8	13.1	17.9
7.5	6.1	9.1	12.2	16.7
8	5.7	8.5	11.5	15.6
8.5	5.4	8.0	10.8	14.7
9	5.1	7.6	10.2	13.9
9.5	4.8	7.2	9.6	13.2
10	4.6	6.8	9.2	12.5
11	4.2	6.2	8.3	11.4
12	3.8	5.7	7.6	10.4
13	3.5	5.3	7.1	9.6
14	3.3	4.9	6.5	8.9
15	3.1	4.6	6.1	8.3
16	2.9	4.3	5.7	7.8
17	2.7	4.0	5.4	7.4
18	2.5	3.8	5.1	6.9
19	2.4	3.6	4.8	6.6
20	2.3	3.4	4.6	6.3
25	1.8	2.7	3.7	5.0
30	1.5	2.3	3.1	4.2
35	1.3	2.0	2.6	3.6
40	1.1	1.7	2.3	3.1
45	1.0	1.5	2.0	2.8
50	0.9	1.4	1.8	2.5

Notes:

1. Spacing of Curlex Sediment Logs is calculated by:
Distance between channel bottom and top of installed Curlex Sediment Log (ft) / Channel gradient (%) x 100 = Curlex Sediment Log Spacing (ft)
2. Minimum installed heights used for determining spacing values in table. Minimum installed heights of 6 in, 9 in, 12 in, and 20 in Curlex Sediment Logs are 5.5 in, 8.2 in, 11.0 in, and 15.0 in, respectively.

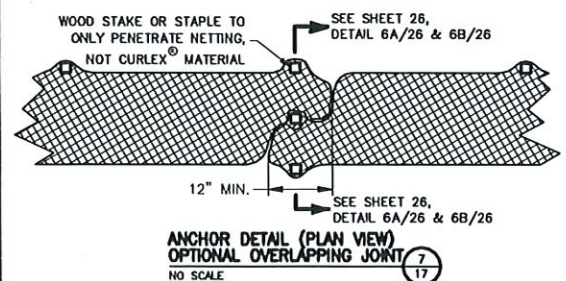


NOTE: TRENCH OPTION IS MOST APPLICABLE IN LOOSE, UNCONSOLIDATED SOILS



$$\left[\frac{\text{DISTANCE BETWEEN CHANNEL BOTTOM AND TOP OF INSTALLED CURLEX® SEDIMENT LOG® (ft)}}{\text{CHANNEL GRADIENT (\%)}} \right] \times 100 = \text{CURLEX® SEDIMENT LOG® SPACING (ft)}$$

RECOMMENDED PLACEMENT INTERVAL BETWEEN CURLEX® SEDIMENT LOG®



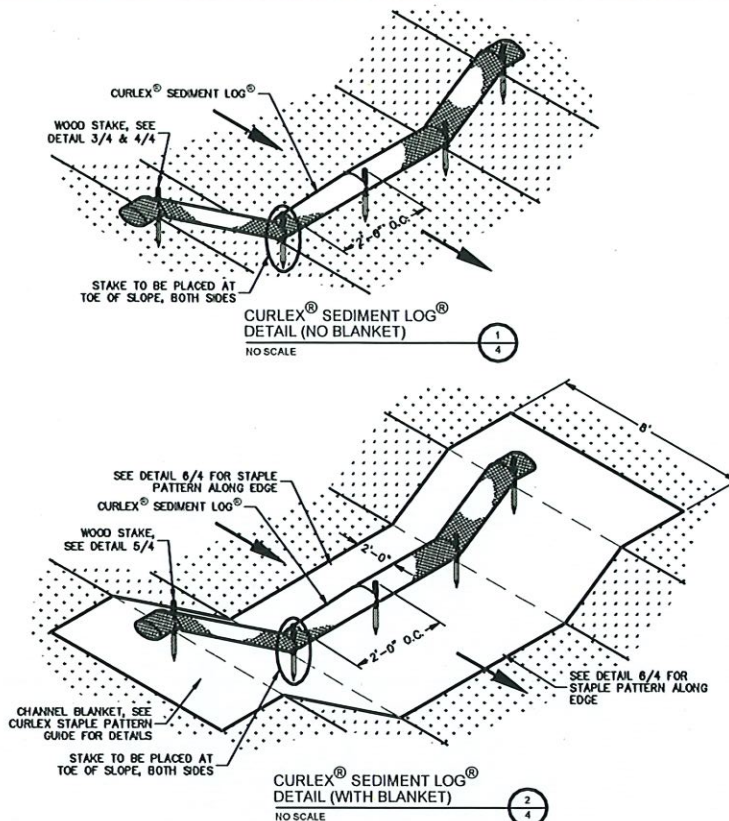
American
Excelsior
Company®
Earth Science Division

AMERICAN EXCELSIOR COMPANY
ARLINGTON, TEXAS

SHEET DESCRIPTION
CURLEX® SEDIMENT LOG®
DITCH/CHANNEL APPLICATION DETAIL

DATE 12/03/21
SCALE
NONE

DRAWN BY
PROJECT NO.
SHEET NO.
17

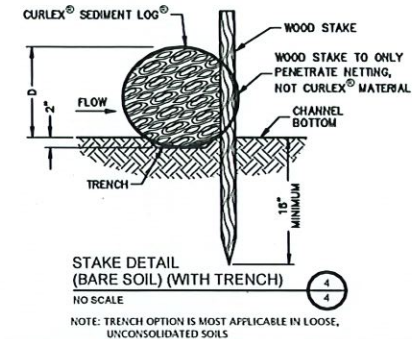
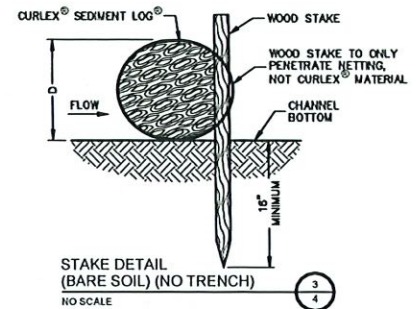


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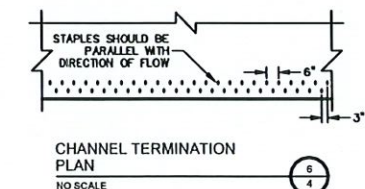
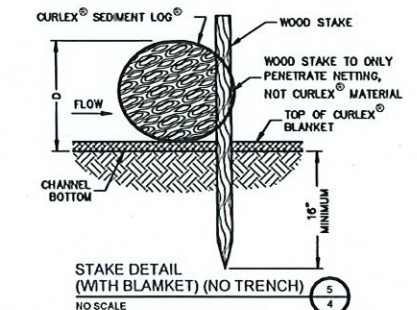
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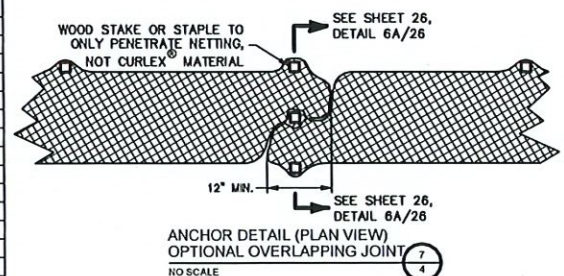


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RECOMMENDED PLACEMENT INTERVAL BETWEEN CURLEX® SEDIMENT LOG®

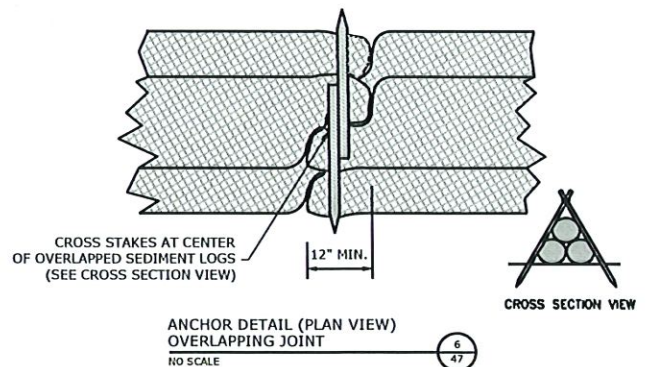
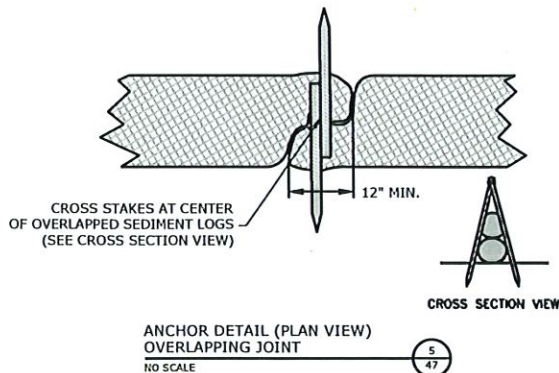
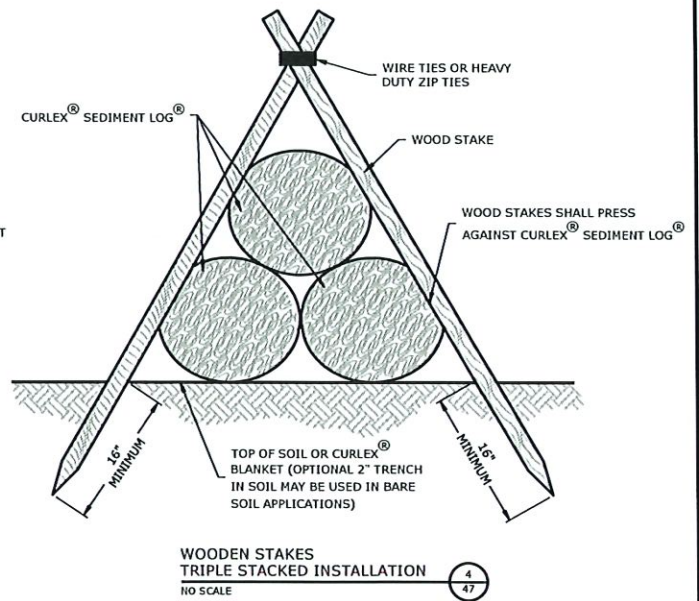
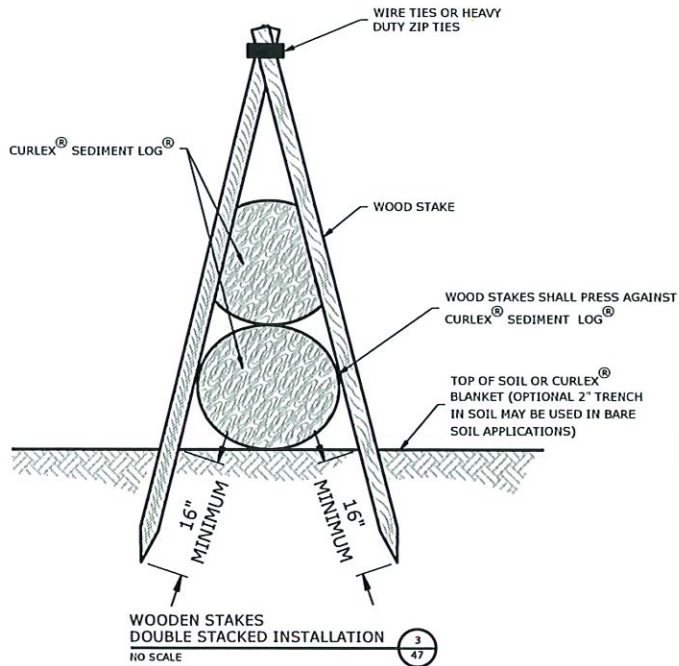
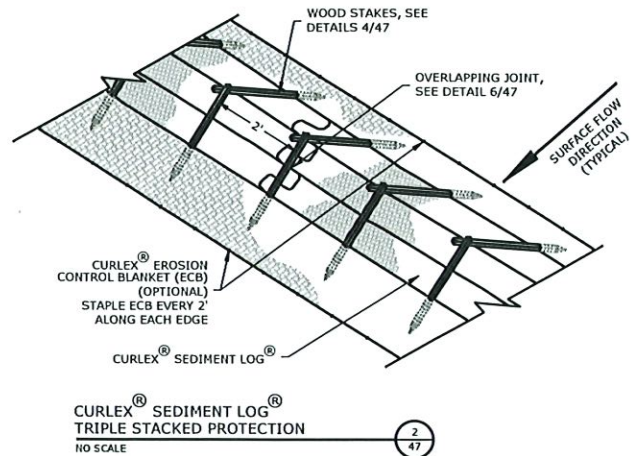
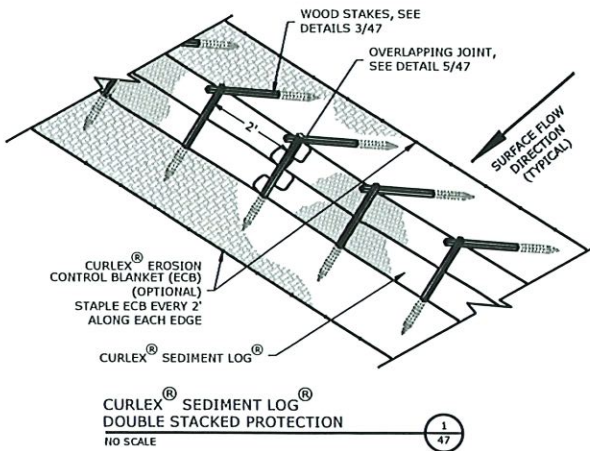


American
Excelsior
Company®
Earth Science Division

AMERICAN EXCELSIOR COMPANY
ARLINGTON, TEXAS

SHEET DESCRIPTION
CURLEX® SEDIMENT LOG®
DITCH/CHANNEL APPLICATION DETAIL

DATE 12/03/21
SCALE NONE
DRAWN BY
PROJECT NO.
SHEET NO. 4



NOTES:

1. RECOMMENDED WOODEN STAKES ARE 1 1/8" X 1 1/8" X 30" FOR 6" CURLEX® SEDIMENT LOGS (DOUBLED STACKED).
2. RECOMMENDED WOODEN STAKES ARE 1 1/8" X 1 1/8" X 48" FOR 9" AND 12" CURLEX® SEDIMENT LOGS (TRIPLE STACKED).

American
Excelsior
Company®
Earth Science Division

AMERICAN EXCELSIOR COMPANY
ARLINGTON, TEXAS

SHEET DESCRIPTION
CURLEX® SEDIMENT LOG®
STACKED INSTALLATION DETAIL

DATE 12/03/21
SCALE
NONE

DRAWN BY
PROJECT NO.
SHEET NO.
47