



SOIL RETENTION

PRODUCTS INC.

INSTRUCTIONS FOR USE OF STANDARD DESIGN INFORMATION FOR VERDURA® 30 RETAINING WALL

The following steps are provided as a general guide for an engineer/architect to incorporate free design information for the **Verdura® 30** Retaining Wall system within a site design package. Free information for the **Verdura® 30** system includes the following:

- Standard Design Report for Walls with 3- to 6-ft High Exposed Heights
- General Notes for Construction and Inspection
- Design Sheets for Multiple Conditions
- Typical Details

All free information for the **Verdura® 30** system can be found through the following link on the website:

<http://soilretention.com/verdura/do-it-yourself/product-info/>

Use of the free design information below assumes a site design has been created by an engineer and/or architect for the site and a jurisdiction is requiring a permit.

1. Download the STANDARD DESIGN REPORT FOR VERDURA 30 from the “Technical” Tab on the website and review contents. Instructions for use of the free Standard Design are contained within.

The screenshot shows the website's navigation bar with the logo and menu items: HOME, ABOUT, NEWS/MEDIA, PRODUCTS, and CONTACT US. Below the navigation bar, there is a breadcrumb trail: Home » Verdura » Retail » Technical. A secondary navigation bar includes tabs for Professional and Retail. A main menu contains icons for PRODUCT INFO, GALLERY, FAQ, DRAWINGS, TECHNICAL (highlighted), INSTALLATION, and WHERE TO BUY. The main content area is titled 'TECHNICAL Design' and features a table of documents available for download as PDFs.

	PDF
STANDARD DESIGN FOR VERDURA® 30	
ICC-ES EVALUATION REPORT ESR-3073	
INSTRUCTIONS FOR USE OF STANDARD DESIGN	

- Download the GENERAL NOTES, STANDARD DETAILS and STANDARD DESIGN ALL CASES sheets in CAD from the “Drawings” Tab our website:

Home » Verdura » Retail » Drawings

Professional Retail

PRODUCT INFO GALLERY FAQ DRAWINGS TECHNICAL INSTALLATION WHERE TO BUY

DRAWINGS

Verdura® 30

	CAD	PDF
VERDURA® 30 GENERAL NOTES		
VERDURA® 30 STANDARD DETAILS		
VERDURA® 30 STANDARD DESIGN ALL CASES		

- Adjust the site plan for the geometries for the **Verdura® 30** Retaining Wall (i.e. wall batter, drainage, fencing, etc.) per the information contained within the Typical Details Sheet

- Select the appropriate Case Design(s) for your project within the Design Case Sheet and delete/cross out information not needed for your design.
 - Example shown: Case 3 – 2:1 Slope Condition atop Wall with a Maximum Exposed Wall Height of 5.0 to 5.5 feet and a 1.0-ft embedment with Type 4 Soils

VERDURA® 30 RETAINING WALL DESIGN CASES

CASE I - LEVEL BACKFILL

CASE I - LEVEL BACKFILL	TOTAL WALL HEIGHT (FEET)	EXPOSED WALL HEIGHT (FEET)	EMBEDMENT (FEET)	SOIL TYPE	SOIL CLASSIFICATION
1	4.0 TO 5.0	2.0 TO 3.0	1.0	1	1
2	4.0 TO 5.0	2.0 TO 3.0	1.0	2	2
3	4.0 TO 5.0	2.0 TO 3.0	1.0	3	3
4	4.0 TO 5.0	2.0 TO 3.0	1.0	4	4
5	4.0 TO 5.0	2.0 TO 3.0	1.0	5	5
6	4.0 TO 5.0	2.0 TO 3.0	1.0	6	6
7	4.0 TO 5.0	2.0 TO 3.0	1.0	7	7
8	4.0 TO 5.0	2.0 TO 3.0	1.0	8	8
9	4.0 TO 5.0	2.0 TO 3.0	1.0	9	9
10	4.0 TO 5.0	2.0 TO 3.0	1.0	10	10

CASE II - LEVEL BACKFILL W/ TRAFFIC SURCHARGE

CASE II - LEVEL BACKFILL W/ TRAFFIC SURCHARGE	TOTAL WALL HEIGHT (FEET)	EXPOSED WALL HEIGHT (FEET)	EMBEDMENT (FEET)	SOIL TYPE	SOIL CLASSIFICATION
1	4.0 TO 5.0	2.0 TO 3.0	1.0	1	1
2	4.0 TO 5.0	2.0 TO 3.0	1.0	2	2
3	4.0 TO 5.0	2.0 TO 3.0	1.0	3	3
4	4.0 TO 5.0	2.0 TO 3.0	1.0	4	4
5	4.0 TO 5.0	2.0 TO 3.0	1.0	5	5
6	4.0 TO 5.0	2.0 TO 3.0	1.0	6	6
7	4.0 TO 5.0	2.0 TO 3.0	1.0	7	7
8	4.0 TO 5.0	2.0 TO 3.0	1.0	8	8
9	4.0 TO 5.0	2.0 TO 3.0	1.0	9	9
10	4.0 TO 5.0	2.0 TO 3.0	1.0	10	10

CASE III - 2:1 SLOPING BACKFILL

CASE III - 2:1 SLOPING BACKFILL	TOTAL WALL HEIGHT (FEET)	EXPOSED WALL HEIGHT (FEET)	EMBEDMENT (FEET)	SOIL TYPE	SOIL CLASSIFICATION
1	4.0 TO 5.0	2.0 TO 3.0	1.0	1	1
2	4.0 TO 5.0	2.0 TO 3.0	1.0	2	2
3	4.0 TO 5.0	2.0 TO 3.0	1.0	3	3
4	4.0 TO 5.0	2.0 TO 3.0	1.0	4	4
5	4.0 TO 5.0	2.0 TO 3.0	1.0	5	5
6	4.0 TO 5.0	2.0 TO 3.0	1.0	6	6
7	4.0 TO 5.0	2.0 TO 3.0	1.0	7	7
8	4.0 TO 5.0	2.0 TO 3.0	1.0	8	8
9	4.0 TO 5.0	2.0 TO 3.0	1.0	9	9
10	4.0 TO 5.0	2.0 TO 3.0	1.0	10	10

VERDURA®
A Soil Retention Product
PROTECTED BY US AND INTERNATIONAL PATENTS AND TRADEMARKS
(800) 368-7935 www.soilretention.com

- Incorporate General Notes and modify information for site design and consultant information

VERDURA® 30 RETAINING WALL PLANS

PART 1 - GENERAL

1.01 INTENT: The intent of these specifications is to provide a minimum standard of construction for retaining walls using VERDURA® 30 retaining wall panels.

1.02 SUMMARY: Retaining Wall

1.03 MATERIALS: Retaining Wall Panels shall be VERDURA® 30 retaining wall panels, manufactured by Soil Retention, Inc. The panels shall be installed in accordance with the manufacturer's instructions and shall be installed in a trench that is excavated to the required depth and backfilled with the required material.

1.04 INSTALLATION: Retaining Wall Panels shall be installed in a trench that is excavated to the required depth and backfilled with the required material. The panels shall be installed in a trench that is excavated to the required depth and backfilled with the required material.

1.05 FINISHES: Retaining Wall Panels shall be finished in accordance with the manufacturer's instructions.

1.06 MAINTENANCE: Retaining Wall Panels shall be maintained in accordance with the manufacturer's instructions.

1.07 PROTECTION: Retaining Wall Panels shall be protected in accordance with the manufacturer's instructions.

1.08 CLEANUP: Retaining Wall Panels shall be cleaned in accordance with the manufacturer's instructions.

1.09 DEMOLITION: Retaining Wall Panels shall be demolished in accordance with the manufacturer's instructions.

1.10 TESTING: Retaining Wall Panels shall be tested in accordance with the manufacturer's instructions.

1.11 INSPECTION: Retaining Wall Panels shall be inspected in accordance with the manufacturer's instructions.

1.12 RECORDS: Retaining Wall Panels shall be recorded in accordance with the manufacturer's instructions.

1.13 SUBMITTALS: Retaining Wall Panels shall be submitted in accordance with the manufacturer's instructions.

1.14 RELATED SECTIONS: Retaining Wall Panels shall be related to the following sections: Foundation, Earth Retention, and Slope Stabilization.

PART 2 - EXECUTION

2.01 EXAMINATION: Retaining Wall Panels shall be examined in accordance with the manufacturer's instructions.

2.02 PREPARATION: Retaining Wall Panels shall be prepared in accordance with the manufacturer's instructions.

2.03 INSTALLATION: Retaining Wall Panels shall be installed in accordance with the manufacturer's instructions.

2.04 FINISHES: Retaining Wall Panels shall be finished in accordance with the manufacturer's instructions.

2.05 MAINTENANCE: Retaining Wall Panels shall be maintained in accordance with the manufacturer's instructions.

2.06 PROTECTION: Retaining Wall Panels shall be protected in accordance with the manufacturer's instructions.

2.07 CLEANUP: Retaining Wall Panels shall be cleaned in accordance with the manufacturer's instructions.

2.08 DEMOLITION: Retaining Wall Panels shall be demolished in accordance with the manufacturer's instructions.

2.09 TESTING: Retaining Wall Panels shall be tested in accordance with the manufacturer's instructions.

2.10 INSPECTION: Retaining Wall Panels shall be inspected in accordance with the manufacturer's instructions.

2.11 RECORDS: Retaining Wall Panels shall be recorded in accordance with the manufacturer's instructions.

2.12 SUBMITTALS: Retaining Wall Panels shall be submitted in accordance with the manufacturer's instructions.

2.13 RELATED SECTIONS: Retaining Wall Panels shall be related to the following sections: Foundation, Earth Retention, and Slope Stabilization.

TABLE 1 - EXPOSED DOCUMENTATION

TABLE 2 - TRENCH SOLE PROVISIONS

TABLE 3 - EXPOSED AND EXISTING MATERIALS

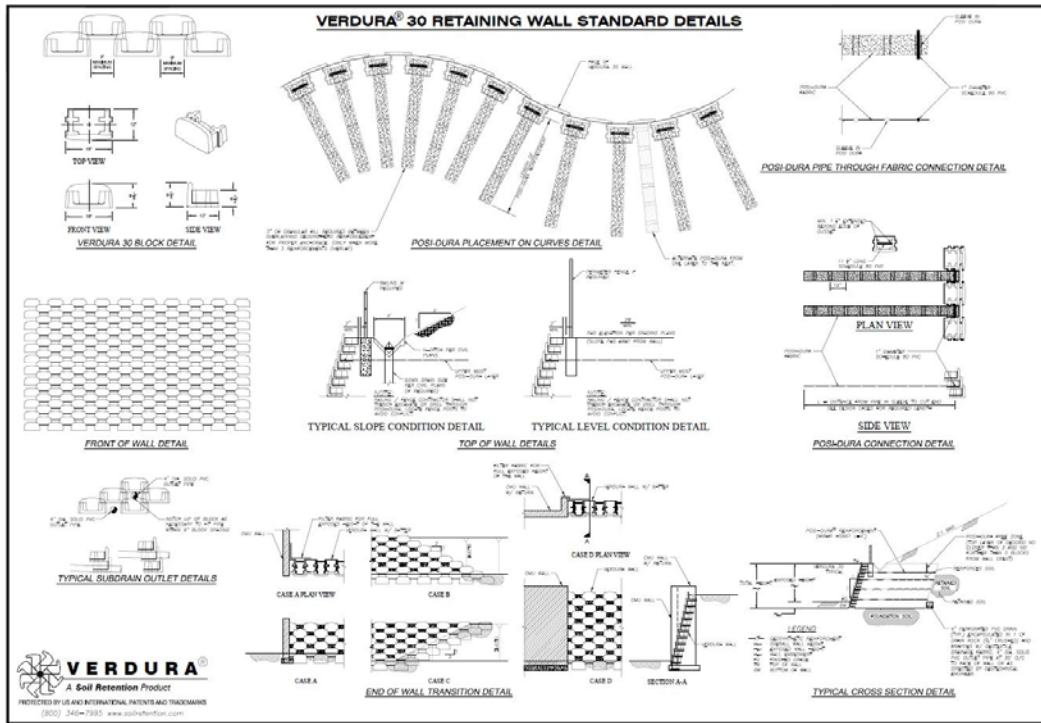
TABLE 4 - SOIL CLASSIFICATION

TABLE 5 - GEOTECHNICAL INVESTIGATION PROCEDURES

VERDURA®
A Soil Retention Product
PROTECTED BY US AND INTERNATIONAL PATENTS AND TRADEMARKS
(800) 368-7935 www.soilretention.com

INCLUDE SHEET ON APPROPRIATE BORDER FOR PROJECT BY DESIGN CONSULTANTS

6. Include Typical Detail SHEET within site design package



7. Include Standard Design Report with submittal to jurisdiction for permit (if required)



SOIL RETENTION
PRODUCTS INC.

VERDURA® 30 RETAINING WALL STANDARD DESIGN

For Exposed Wall Heights of 3 to 6 Feet
ICC-ES Evaluation Report ESR-3073



Prepared by

Soil Retention Designs, Inc.