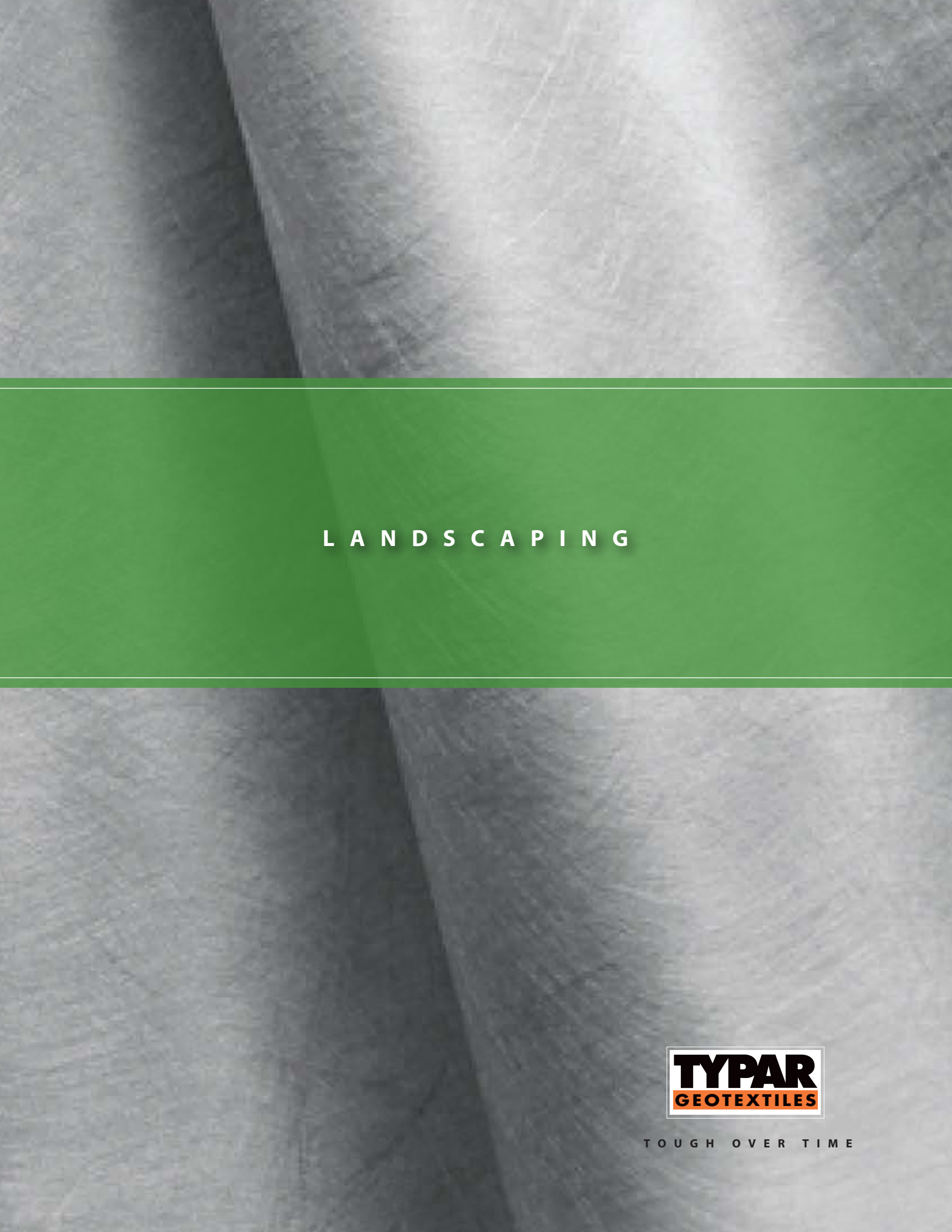

LANDSCAPING

TYPAR GEOTEXTILES

TOUGH OVER TIME

LANDSCAPING

TYPAR GEOTEXTILES

TOUGH OVER TIME

1.0 FEATURES OF LANDSCAPING

In the broadest sense, a weed is a plant that grows where it is not wanted. Most weeds have no useful qualities. Furthermore, they can be very invasive, replacing other plants in their path, spreading quickly and competing for water and nutrients with desirable flowers and plants. Weeds are persistent and opportunistic and can thrive in the sparsest and rockiest of soils. Consequently, millions of dollars are spent every year chemically combating weeds.

Weed seeds germinate by the thousands when the right habitat is created. Covering the ground with Typar alters the environment, making it more difficult for them to become established and easier for the gardener to control them.

Typar minimizes weed growth while allowing water, air and nutrients to pass freely through to plant roots. Typar restricts weed growth while ensuring desired plantings remain healthy. Little maintenance is required to provide protection from airborne weed seeds and overgrowth from nearby vegetation.

In addition to weed control, Typar fulfills a number of other landscaping functions:

- Soil retention behind log retaining walls
- Simple stone drains
- Weed control under decks
- Separation layer under patios and paths
- Soil retention in planter pots and hanging baskets

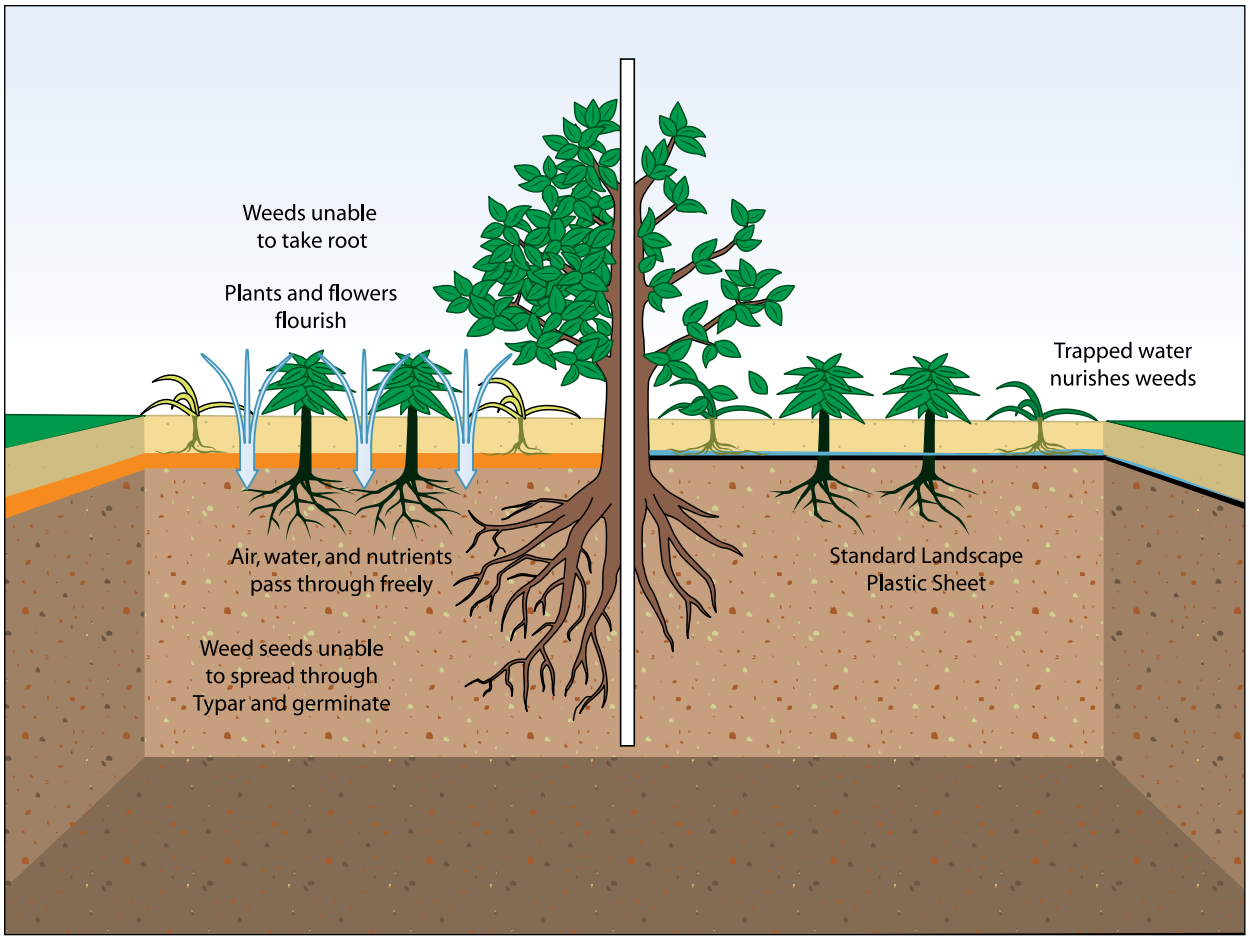

Figure 1: Weed growth restricted by Typar.

	3301	3341	3401	3501
Plantar boxes		✓		
Light duty weed control	✓	✓		
Heavy duty weed control		✓	✓	✓
Drainage	✓	✓	✓	✓
Retaining walls		✓	✓	✓
Patios and paths		✓	✓	✓
Driveway stabilization		✓	✓	✓
Road stabilization			✓	✓

Figure 2: Selection of Typar style in landscaping applications.

In addition to its separation benefits, Typar geotextiles inhibit the growth of vegetation roots through its surface, while allowing water, air and fertilizer to pass through to plant roots in landscape applications. Typar restricts weed growth and ensures plantings remain healthy, while only light maintenance is required to provide protection from airborne seeds and overgrowth from nearby vegetation.

2.0 HOW TYPAR GEOTEXTILES WORK

Typar offers a combination of properties that make it ideally suited for weed control, drainage and stabilization:

- Highly permeable, allowing free flow of water, air and nutrients
- Tight fiber structure prevents weeds from penetrating down through to the soil
- Prevents piping or erosion of the subgrade soils
- Tough, strong and durable
- Easy to install
- Resists fungal, biological and chemical attack

Typar provides an effective drainage structure since it has both high permeability and the ability to restrain soil movement. This leaves behind the larger soil particles to form a more permeable graded soil filter adjacent to the Typar. This effectively stops the piping of the subgrade soils. Typar's heatbonded, nonwoven structure makes it resistant to damage and stress during and after construction.

Plastic films–often used to control weeds–are not permeable and do not allow water and fertilizer to pass through them, which starves the plant roots of nutrients, air and water. However, Typar's high permeability permits water and fertilizer to pass through and reach the plant roots.

When used behind retaining walls or for drains, Typar provides high permeability, allowing water to pass through openings and leaving soil particles behind, which effectively stops piping and prevents fine particle loss.

3.0 DESIGN CONSIDERATIONS AND SELECTION OF GEOTEXTILES

Typar geotextiles are available in a wide variety of styles and widths. Selection of the appropriate style is dependent on the application and installation (Figure 2).

4.0 INSTALLATION GUIDE

GARDEN MULCH
(Figure 3)

1. Clear and till the area, creating a smooth surface.
2. Spread Typar over the entire section.
3. Cover the Typar with organic mulch to hold moisture and give the garden a pleasant appearance.
4. Cut X-shaped slits in the Typar for seeds and plants to grow through.
5. Water and fertilize plants as recommended.

Figure 3: Sequential procedure for using Typar with garden mulch.

PLANTER AND POT DRAINAGE
(Figure 4)

1. Line the container with Typar to allow water drainage without soil loss.
2. Add soil and plants.

Figure 4: Soil retention for planters and pots.

BENEATH WOOD DECKS
(Figure 5)

1. Erect vertical posts for the deck.
2. Unroll Typar on the ground and trim around vertical posts.
3. Cover the Typar with at least 4 inches of sand, gravel or mulch.

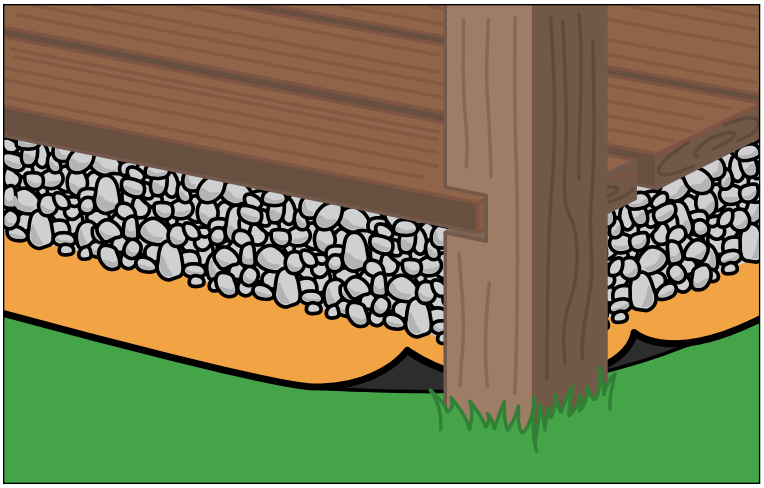

Figure 5: Weed control under decks.

TIMBER RETAINING WALLS
(Figure 6)

1. Excavate trench and build wall.
2. Install Typar behind the wall.
3. Backfill with soil or mulch.

Note: An aggregate drainage system or drainage geocomposite may be required behind walls greater than 2 feet high.

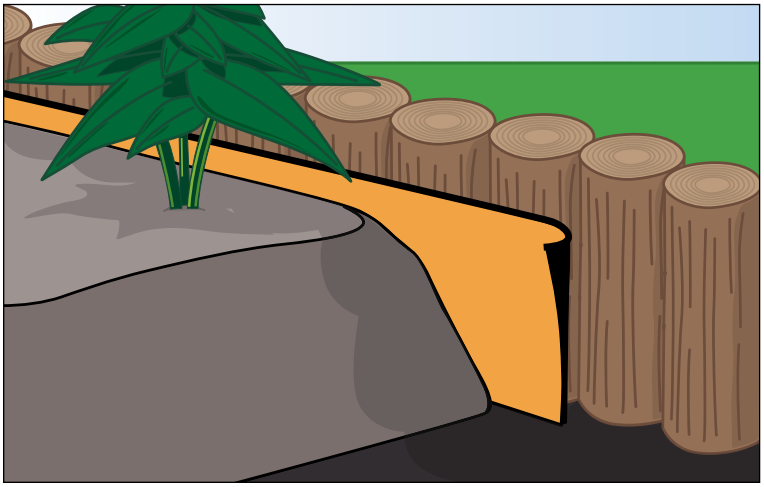

Figure 6: Soil retention for timber retaining walls.

PATIOS AND PATHS
(Figure 7)

1. Clear all weeds and grass.
2. Cut channel for patio or path and place Typar.
3. Cover with at least 4 inches of sand or lean cement and place Typar.
4. Lay bricks, blocks or slabs.
5. Sweep any excess sand into the openings to prevent shifting.

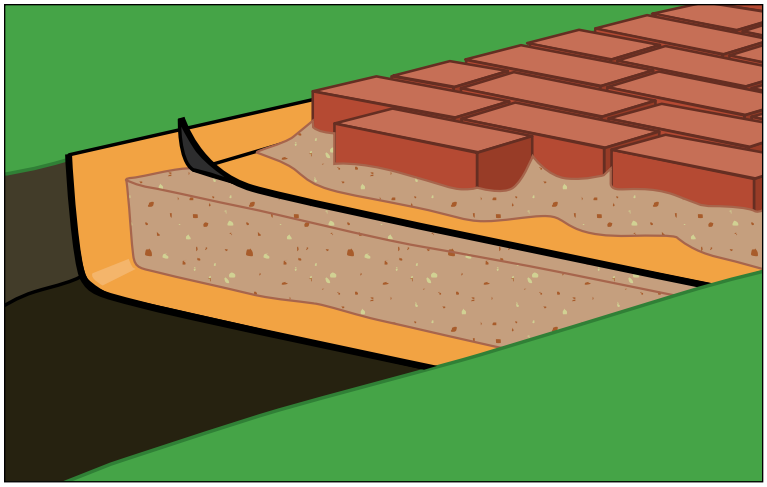

Figure 7: Support for brick walkways.

BLANKET DRAINS
(Figure 8)

1. Dig trench in the area to be drained to a lower area downhill, ensuring the slope is uniform.
2. Line Typar along the length of the trench.
3. Place drainage aggregate into the trench on top of the Typar.
4. Lay perforated pipe, if required, and cover with aggregate.
5. Wrap Typar over the sides and top of the aggregate.
6. Backfill with soil and compact.

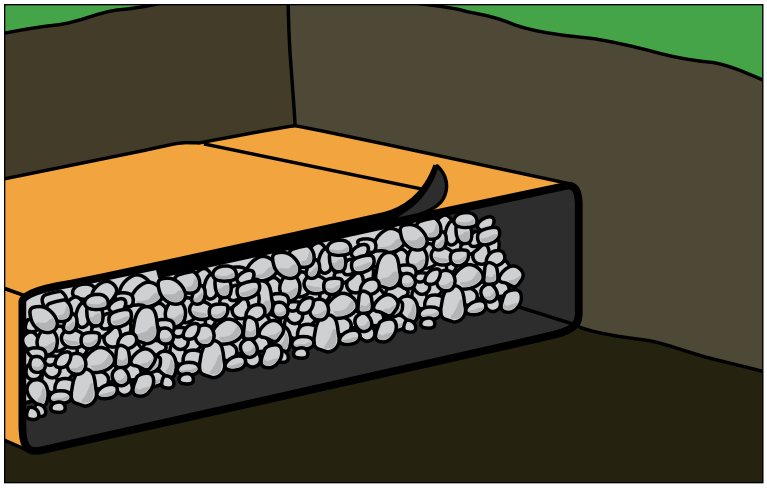

Figure 8: Blind drain.

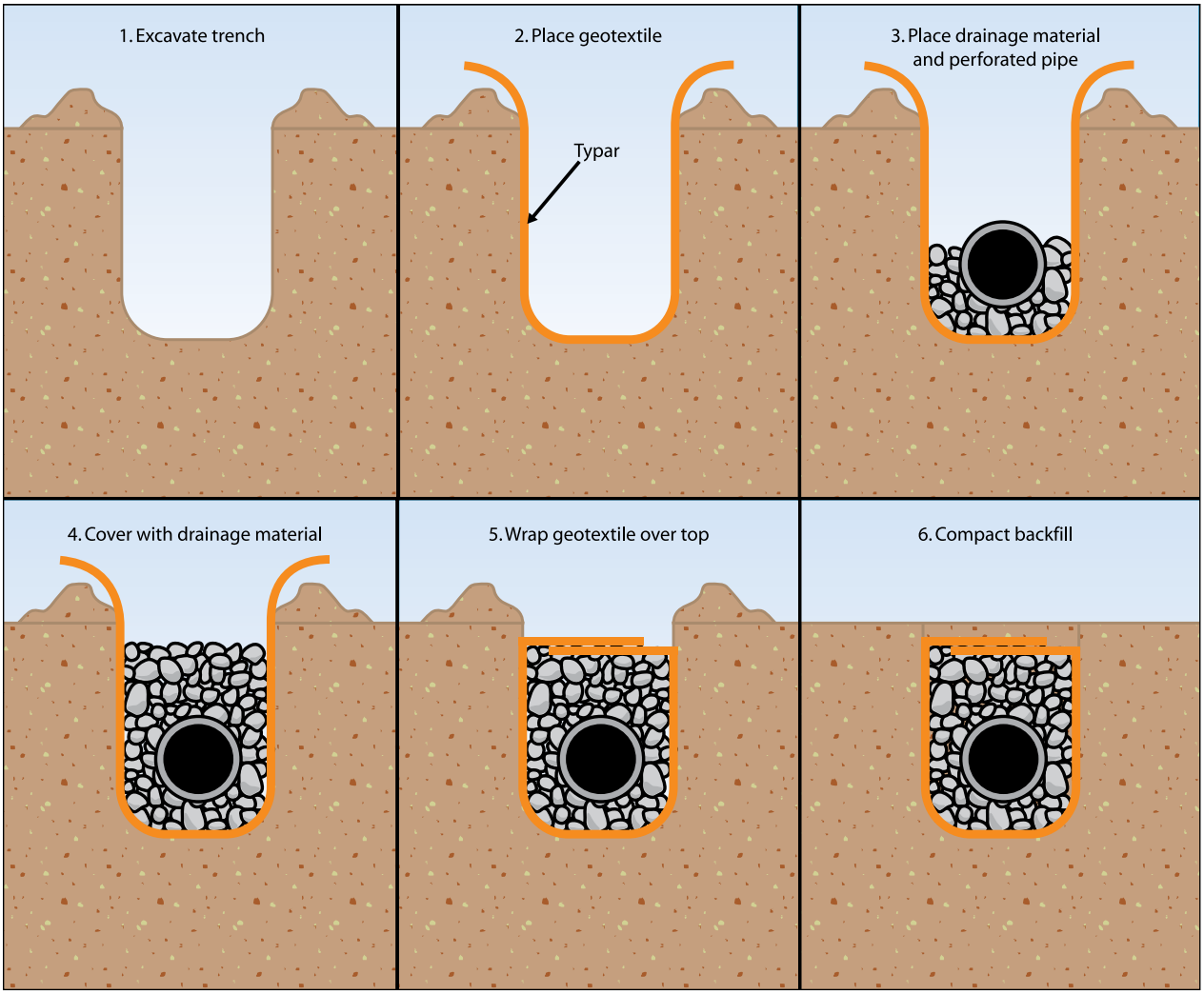

Figure 9: Installation guide for underdrain construction.

INTERCEPTOR TRENCH DRAINS
(Figure 9)

1. Excavate the trench.
2. Install Typar, maintaining close contact with soil.
3. Anchor top of Typar with stone to prevent falling back into trench.
4. Place first layer of drainage stone.
5. Install perforated drainage pipe.
6. Cover pipe with drainage stone.
7. Wrap Typar over the top of the stone.
8. Place and compact soil or backfill.

5.0 OVERLAP AND JOINING

Overlaps provide continuity between adjacent geotextile rolls. Sufficient overlap is required to prevent fabric separation during backfilling. A minimum overlap of 12 inches is recommended.

Pins or piles of stone may be used to maintain geotextile overlaps during installation. Geotextile overlaps at the end of rolls should be in the direction of the aggregate placement with the previous roll on top.

6.0 SETTING SPECIFICATIONS

Specifications should generally follow the design considerations in section 3.0. Primary considerations include the minimum geotextile requirements for the design retention, filtration and survivability.

When specifying Typar geotextiles for landscaping, specify the appropriate Typar grade with the confidence that all Typar geotextiles are manufactured to the high quality standards required by the landscaping industry.