

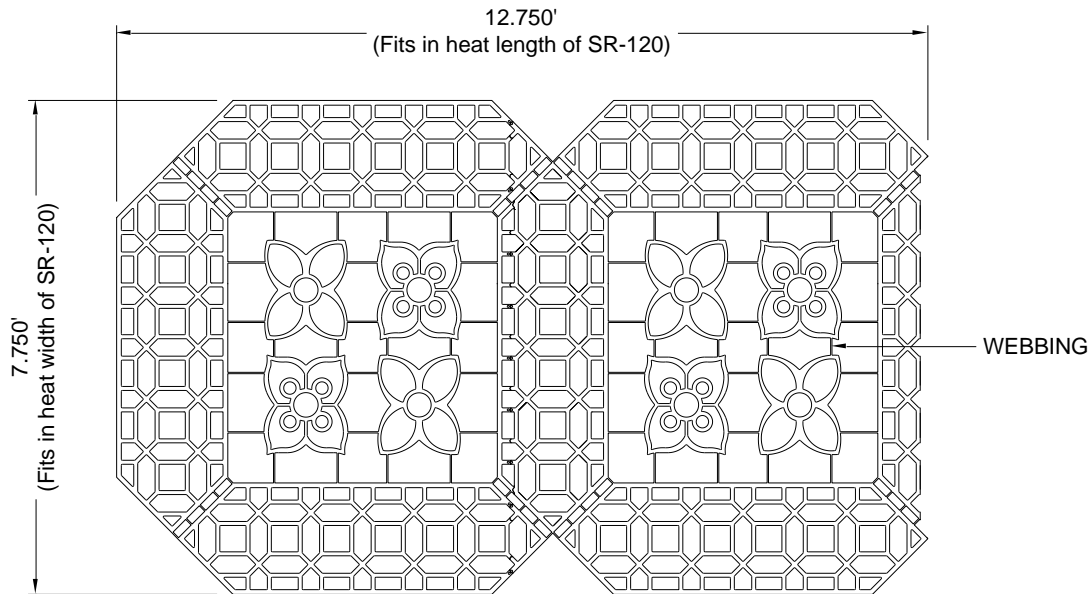




-Template Size – The stamping templates are light-weight and must be held in place firmly during imprinting to avoid shifting from side to side. Maximum template dimensions are 6' x 10' (1.8m x 3m) for the SR-60 and 8'8" x 13'4" (2.6m x 4m) for the SR-120. Narrow templates are printable but must be at least 3' (.9m) long so they can be held in place while being imprinted.

-Heating Area – The heating area of the reciprocating infrared heaters should be an important consideration in conceptual DuraTherm layouts. It is recommended to design templates that fit within the heating areas to increase productivity during installation. These areas are:

5'8" x 8'8" (1.73m x 2.64m) for the SR-60 and 8'6" x 12'8" (2.59m x 3.86m) for the SR-120\*  
(The graphic below is a template designed for the SR-120 heater.)



**\*Please consult your local Ennis-Flint Representative or Certified Applicator to advise which heater is available in your project area.**

-Template Webbing – Small, stand alone elements are not printable, unless they are “webbed” or connected to other parts in the design (as shown above). The result is narrow ¼” (6.4mm) connectors that will be imprinted lines, but are not filled with DuraTherm. The length of the connectors can range from 1” to 3” (2.5cm-7.6cm). This means you can have shapes of DuraTherm spaced 1” to 3” (2.5cm-7.6cm) apart. The narrow ¼” (6.4mm) connectors cannot exceed 3” (7.6cm) in length. If connectors of a longer length are needed, they will be 3/8” (9.5mm) wide.

-Template Flipping Ability – As the template is stamped, asphalt will build up on the underside of the template. This continues with each successive stamp. To avoid this, it is recommended that a symmetrical template be flipped over after each stamp, so the plate compactor can remove this buildup while imprinting. Designers should keep this in mind, as this method allows for up to 10 prints on a single template. Template designs that are asymmetrical and unable to be flipped can only be stamped 4 or 5 times before being discarded, which can dramatically increase the template costs for a project. To avoid this, keep shapes symmetrical if at all possible.

### **Intellectual Property**

Ennis-Flint makes every effort to respect others’ intellectual property, so any trademarked or copy written pattern, logo, symbol, or brand name that we are to replicate must have a letter of permission from the brand owner or authorized representative.

## **Pricing**

Custom DuraTherm pattern pricing is based upon design complexity/intricacy, the number of thermoplastic components necessary to create the specified pattern, number/type of colors, pattern repetition, number of template designs, and the overall amount of materials needed to complete a project.

### **Details needed to quote pricing for a custom pattern:**

*Design: (Emailed drawing file, image, sketch, etc.)*

*The image should be of high resolution and print quality, so that it can be evaluated properly. Vector design files using solid colors are ideal when available. We can accept CAD files (.DWG or .DXF), .PDF, .JPG, .TIF and .AI file types.*

*Description/Notes: (Only if any deviations from image submitted)*

*Dimensions: (Very Important)*

*Colors: (If not clear on the image submitted)*

*Quantity (Area): (If an exact area or material amount is not known, please indicate an approximate amount.)*

**Remember:** If there are many different elements in a design, the quantity and cost of thermoplastic pieces and stamping templates will be higher, and the finished DuraTherm job will be more complex and costly to install. It is most economical to maximize the repeatability of the pattern and limit the number of components.

## **Submittal Drawings**

-Once the price has been accepted and an order placed for the material, Ennis-Flint will prepare a submittal drawing for approval by the customer. The drawing will include the overall pattern, the DuraTherm components, the template design, and the layout showing how all are positioned to create the pattern.

-No production will begin until the submittal drawing is approved in writing.

-Should a submittal drawing be required before the order is placed, Ennis-Flint reserves the right to charge an up-front design fee for submittal drawing creation. This amount will be applied toward the invoice for the material when it's ordered, so it is not an additional charge above the quoted material price.

## **Application**

- The pavement is stamped with the template to create the pattern impression in the pavement.

-DuraTherm material must be heated until molten in the stamped impression in the pavement.

-The marking material's colors may change slightly when heated to a molten state during application.

-Any browning of the material from heating should wear away within a week or so of being opened to traffic.

## **Marking Functionality**

TrafficScapes™ products (including DuraTherm) are functional pavement markings designed to provide streetscape enhancement, promote safety awareness and calm traffic. The initial aesthetic properties of applied markings will be affected by traffic, weather, chemicals, and other environmental factors over time.