

## Tech Data

# Viega Climate Mat



This document is subject to updates. For the most current Viega technical literature please visit [www.viega.us](http://www.viega.us).



Viega products are designed to be installed by licensed and trained plumbing and mechanical professionals who are familiar with Viega products and their installation. **Installation by non-professionals may void Viega LLC's warranty.**

### Description

This specification designates the requirements for Viega Climate Mat for use in hydronic radiant heating, cooling and snow melting systems. Climate Mats are prefabricated tubing circuit assemblies delivered in cylindrical rolls engineered for rapid installation on site.

### Materials

Viega Barrier PEX tubing is used in the construction of Viega's Climate Mat. For detailed information about the tubing, refer to Viega's Tech Data Sheet for Viega Barrier PEX tubing. In addition to Viega Barrier PEX, Climate Mat assembly components include circuit tubing spacer strips with fastening clips and a temporary shipping header. The spacer strips and fastening clips are constructed of plastic. The shipping header itself is constructed of Viega Barrier PEX, PolyAlloy fittings and a Schrader-type air valve. Pre installed protective sleeves near the shipping header shield the Viega Barrier PEX tubing where it exits a concrete slab. The supply and return tubes of each circuit in the Climate Mat are color coded with a red or blue indicator sleeve.

### Recommended Uses

Viega Climate Mat is recommended for hydronic radiant heating, cooling and snow melting systems utilizing water or a water/glycol mix as the thermal transfer media. Climate Mats may be installed in concrete, gypsum based lightweight concrete or over compacted gravel. Climate Mats are designed to be used in large open areas in commercial or industrial concrete slabs.

### Design and Order Process

Viega Climate Mat is made to order for each project. The production lead time for an entire Climate Mat project is approximately 4 weeks. Lead time for Climate Mats exceeding a length of 150 feet may be extended. To receive a material list price quote for a Climate Mat project, an electronic floor plan drawing shall be provided to Viega Design Services outlining the area intended for Climate Mat installation. As a function of the design process, each Climate Mat project will receive a project number and each Climate Mat location will be clearly identified on the design drawing layout.

### Quality Assurance

Viega Barrier PEX used in Climate Mat is manufactured and tested to the requirements of ASTM F876 and F877. The degree of cross-linking of finished tubing is determined by method ASTM D2765.

### Handling and Installation

Install Viega Climate Mats in accordance with installation manuals provided by manufacturer and applicable building code requirements. Climate Mats are pressurized to 20 psi in factory and shipped under pressure to the final destination. Each Climate Mat is manufactured with a Schrader-type air valve in the shipping header allowing the installer to quickly determine if any damage to the circuit tubing occurred during transit using a simple tire gauge. The shipping header can be used to execute a proper pressure test at 100 psi as described in Viega's installation manuals or in accordance with local building codes. Water or air can be used to pressure test the system. Climate Mats come with 6 month UV protection. For information on the suitability for other applications, contact your Viega representative.

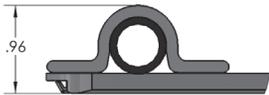
## Climate Mat Configurations and Dimensions

### Climate Mats with 1/2" Viiega Barrier PEX Tubing

Stock Codes, Configuration Options, Dimensional Drawings

#### Climate Mat Height

1/2" Mats



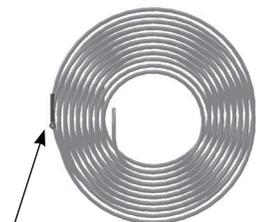
**Note:**

Total weight = Shipping Header Weight + Climate Mat Weight + Leader Weight

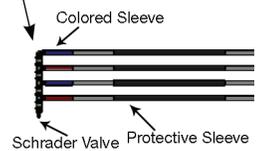
**Where:**

Climate Mat Weight = (Mat Length Made per Order / 4) x (Climate Mat Weight per 4 feet)

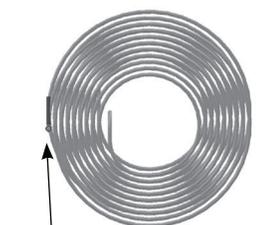
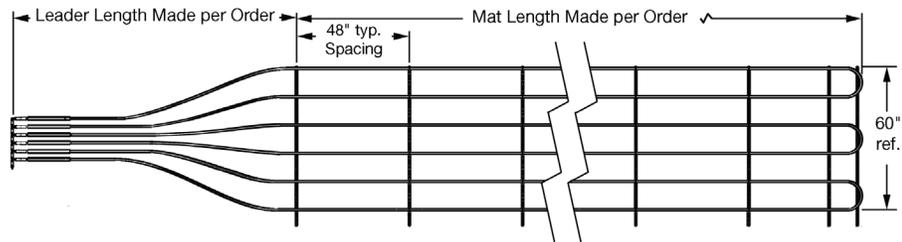
Leader Weight = (Leader Length Made per Order / 10) x (Leader Weight per 10 feet)



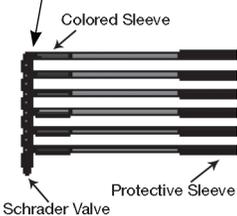
Shipping Header



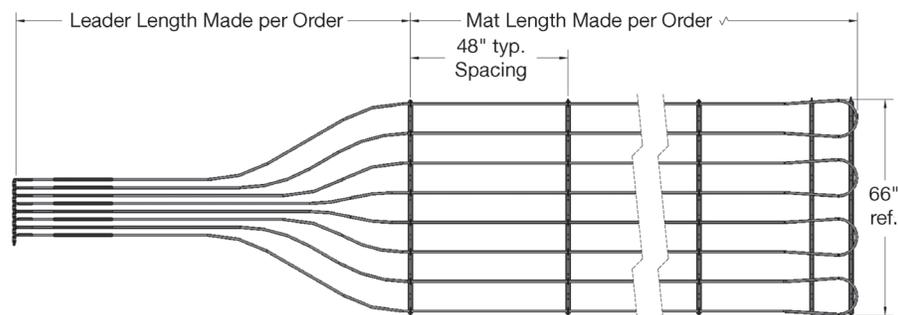
Product No.	Description	Dimension	Climate Mat Length (ft)	Leader Length (ft)
18152	Climate Mat, 5 ft	1/2" Viiega Barrier PEX, 12" O.C., 3 Loops / 3 Circuits	40-168	10, 20, 30
Approx. Weight	Shipping Header (lbs)	Climate Mat per 4 ft (lbs)	Leader per 10 ft (lbs)	Total (lbs)
	0.5	1.9	4.7	See Note

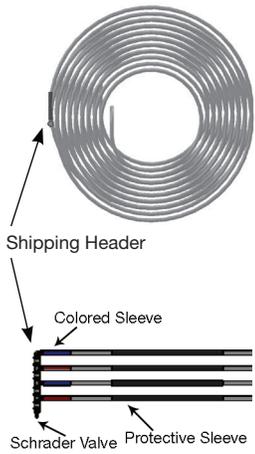


Shipping Header



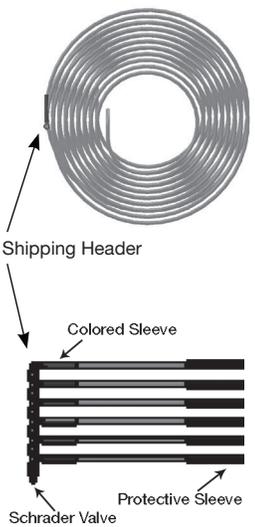
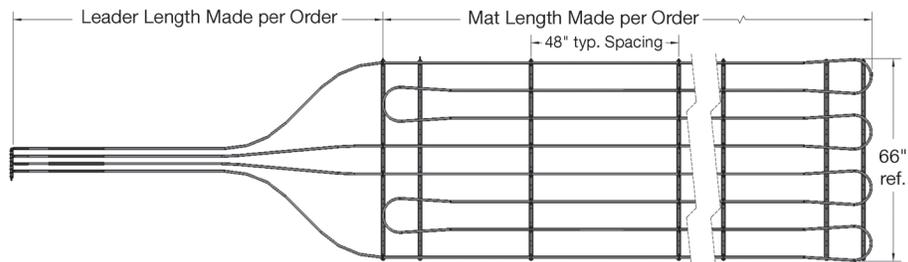
Product No.	Description	Dimension	Climate Mat Length (ft)	Leader Length (ft)
18151	Climate Mat, 6 ft	1/2" Viiega Barrier PEX, 9" O.C., 4 Loops / 4 Circuits	72-168	10, 20, 30
Approx. Weight	Shipping Header (lbs)	Climate Mat per 4 ft (lbs)	Leader per 10 ft (lbs)	Total (lbs)
	0.7	2.3	6.3	See Note





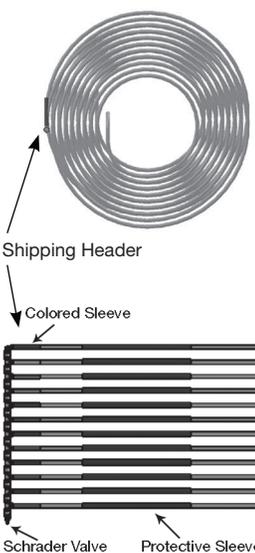
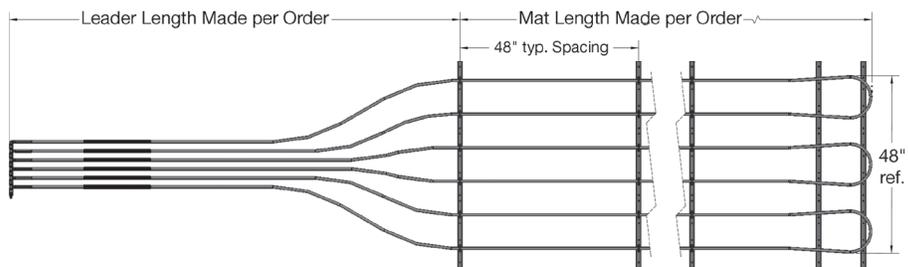
Product No.	Description	Dimension	Climate Mat Length (ft)	Leader Length (ft)
18156	Climate Mat, 6 ft	½" ViEGA Barrier PEX, 9" O.C., 4 Loops / 2 Circuits	40-72	10, 20, 30

Approx. Weight	Shipping Header (lbs)	Climate Mat per 4 ft (lbs)	Leader per 10 ft (lbs)	Total (lbs)
	0.4	2.4	3.2	See Note



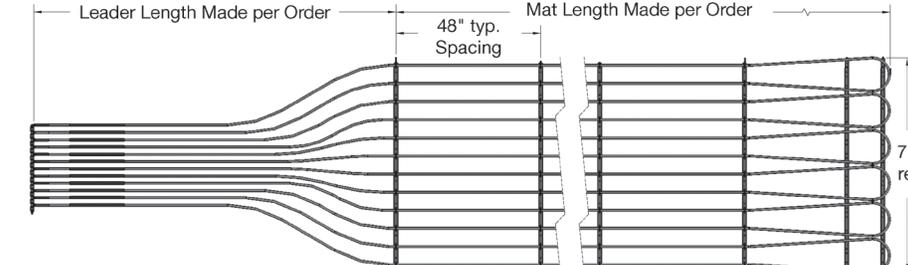
Product No.	Description	Dimension	Climate Mat Length (ft)	Leader Length (ft)
18158	Climate Mat, 5 ft	½" ViEGA Barrier PEX, 9" O.C., 3 Loops / 3 Circuits	72-168	10, 20, 30

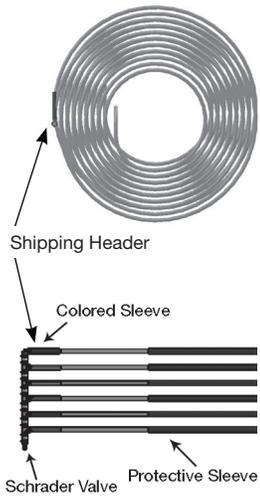
Approx. Weight	Shipping Header (lbs)	Climate Mat per 4 ft (lbs)	Leader per 10 ft (lbs)	Total (lbs)
	0.5	1.9	4.7	See Note



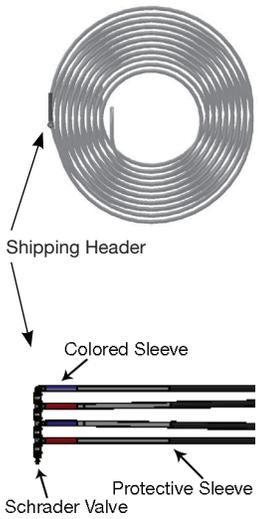
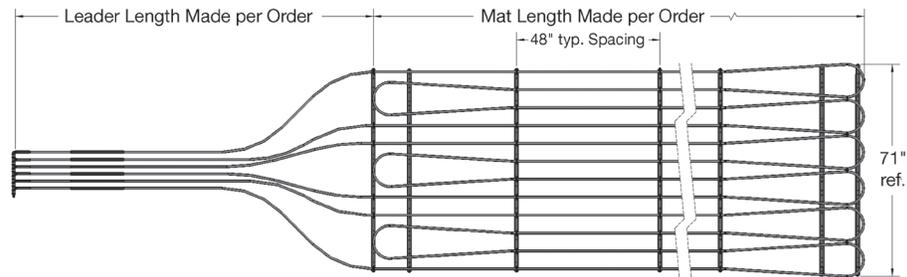
Product No.	Description	Dimension	Climate Mat Length (ft)	Leader Length (ft)
18150	Climate Mat, 6 ft	½" ViEGA Barrier PEX, 9" O.C., 6 Loops / 6 Circuits	72-168	10, 20, 30

Approx. Weight	Shipping Header (lbs)	Climate Mat per 4 ft (lbs)	Leader per 10 ft (lbs)	Total (lbs)
	1.0	3.3	9.5	See Note

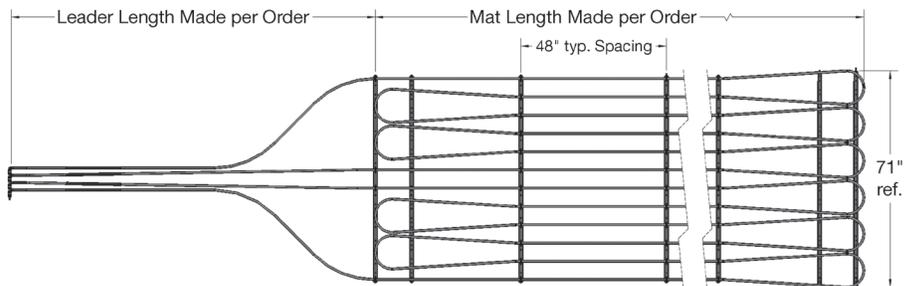




Product No.	Description	Dimension	Climate Mat Length (ft)	Leader Length (ft)
18154	Climate Mat, 6 ft	1/2" Viega Barrier PEX, 6" O.C., 6 Loops / 3 Circuits	40-72	10, 20, 30
Approx. Weight	Shipping Header (lbs)	Climate Mat per 4 ft (lbs)	Leader per 10 ft (lbs)	Total (lbs)
	0.5	3.4	4.7	See Note



Product No.	Description	Dimension	Climate Mat Length (ft)	Leader Length (ft)
18155	Climate Mat, 6 ft	1/2" Viega Barrier PEX, 6" O.C., 6 Loops / 2 Circuits	12-40	10, 20, 30
Approx. Weight	Shipping Header (lbs)	Climate Mat per 4 ft (lbs)	Leader per 10 ft (lbs)	Total (lbs)
	0.4	3.6	3.2	See Note

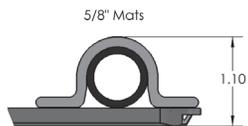


## Climate Mat Configurations and Dimensions

### Climate Mats with 5/8" Viega Barrier PEX Tubing

Stock Codes, Configuration Options, Dimensional Drawings

#### Climate Mat Height



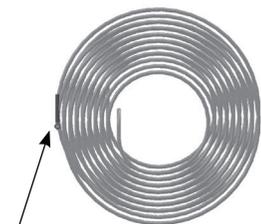
**Note:**

Total weight = Shipping Header Weight + Climate Mat Weight + Leader Weight

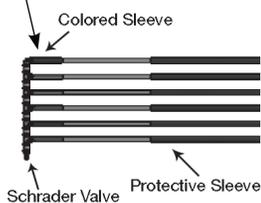
**Where:**

Climate Mat Weight = (Mat Length Made per Order / 4) x (Climate Mat Weight per 4 feet)

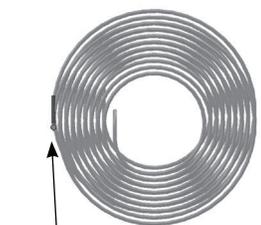
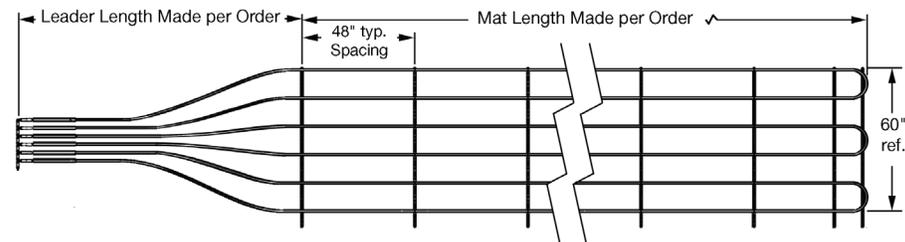
Leader Weight = (Leader Length Made per Order / 10) x (Leader Weight per 10 feet)



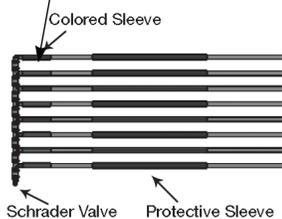
Shipping Header



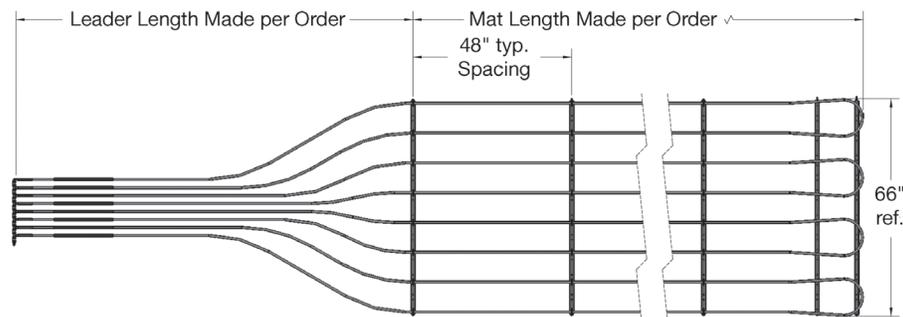
Product No.	Description	Dimension	Climate Mat Length (ft)	Leader Length (ft)
18159	Climate Mat, 5 ft	5/8" Viega Barrier PEX, 12" O.C., 3 Loops / 3 Circuits	40-220	10, 20, 30
Approx. Weight	Shipping Header (lbs)	Climate Mat per 4 ft (lbs)	Leader per 10 ft (lbs)	Total (lbs)
	0.6	2.2	6	See Note

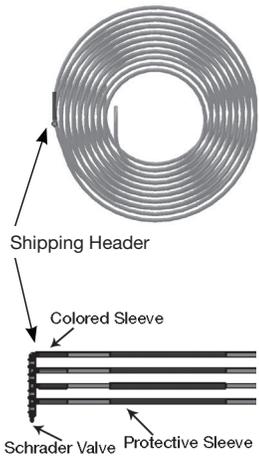


Shipping Header



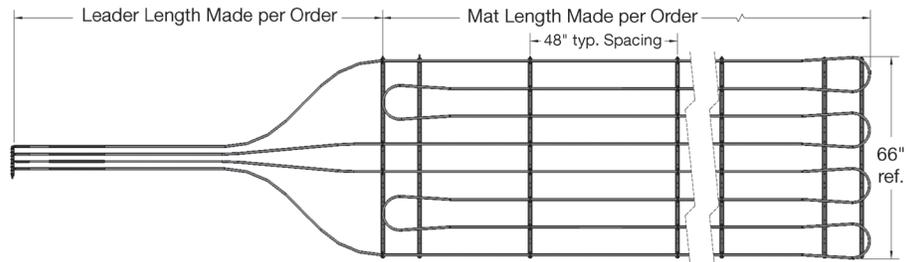
Product No.	Description	Dimension	Climate Mat Length (ft)	Leader Length (ft)
18160	Climate Mat, 6 ft	5/8" Viega Barrier PEX, 9" O.C., 4 Loops / 4 Circuits	92-220	10, 20, 30
Approx. Weight	Shipping Header (lbs)	Climate Mat per 4 ft (lbs)	Leader per 10 ft (lbs)	Total (lbs)
	0.7	3.0	7.9	See Note





Product No.	Description	Dimension	Climate Mat Length (ft)	Leader Length (ft)
18157	Climate Mat, 6 ft	5/8" Viega Barrier PEX, 9" O.C., 4 Loops / 2 Circuits	40-92	10, 20, 30

Approx. Weight	Shipping Header (lbs)	Climate Mat per 4 ft (lbs)	Leader per 10 ft (lbs)	Total (lbs)
	0.4	3.1	4.0	See Note



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TD-HC 1119 Climate Mat

