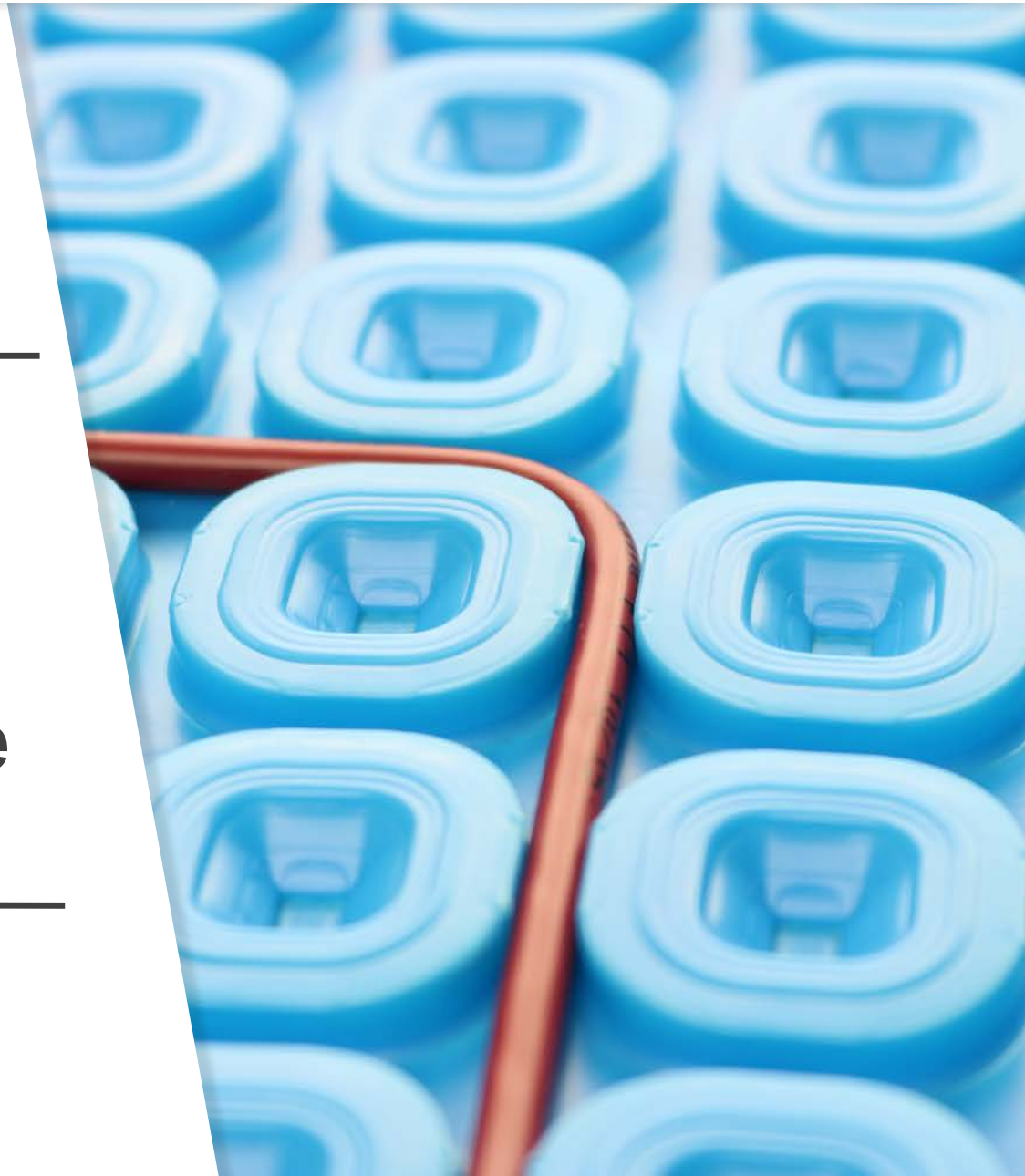




WarmlyYours

How to Install a Floor Heating System in Less Than a Day – Tile





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Starting in **a moment**

Mon, Jan 1, 2018 1:00 PM CDT



WarmlyYours
Radiant Heating

Prepare to go live

Setup checklist

Call to Action

Ask a Question

Polls

Analytics

People

1



Say something nice



Say hello.

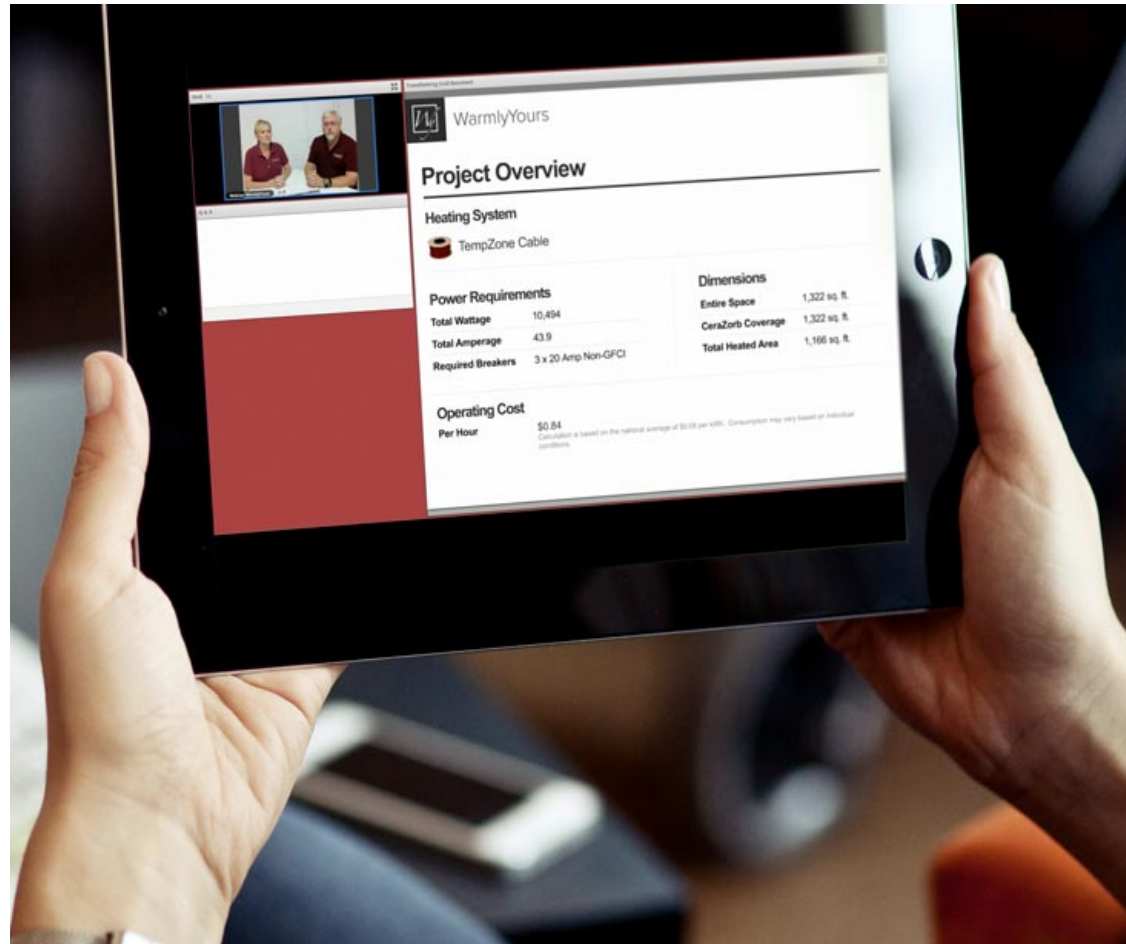
Any questions you have during the presentation can be asked here.



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Webinar Outline

- Floor Heating
- TempZone & Prodeso Uncoupling Membrane
- Project Cost
- Example Install





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Floor Heating

- Energy efficient way to warm the spaces used most
- Reduced use of central heating systems
- Energy efficient by localizing heat to where you need it – no need to overheat house to get this space warm





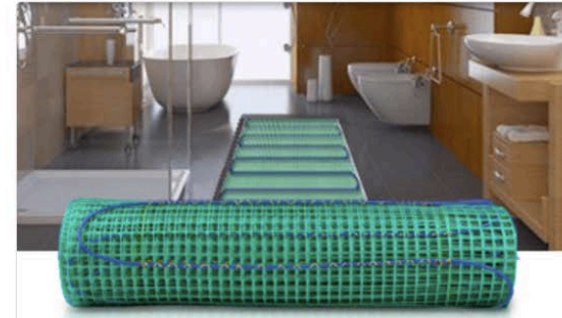
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TempZone System

- Allows for maximum flexibility for heating coverage
- Spacing can be customized to help reduce power usage or get desired heat output
- Be sure to allow for the thickness of the splice – notch the Prodeso with a blade to set the splice into



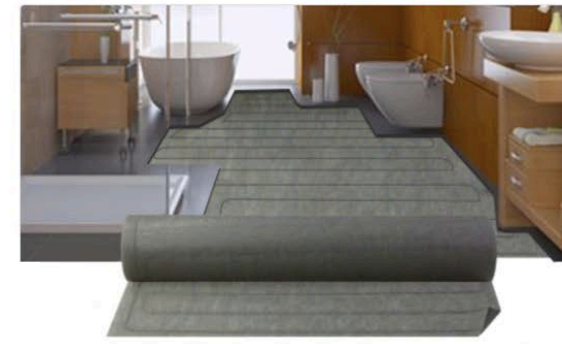
TempZone Flex Roll



TempZone Easy Mat



TempZone Cable



TempZone Custom



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How to Install in a Day

- Prodeso Uncoupling Membrane holds the heating element instead of embedding with traditional thinset/ self—leveling cement
- Prodeso allows you to install tile immediately after laying out floor heating cables





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Products for This Install

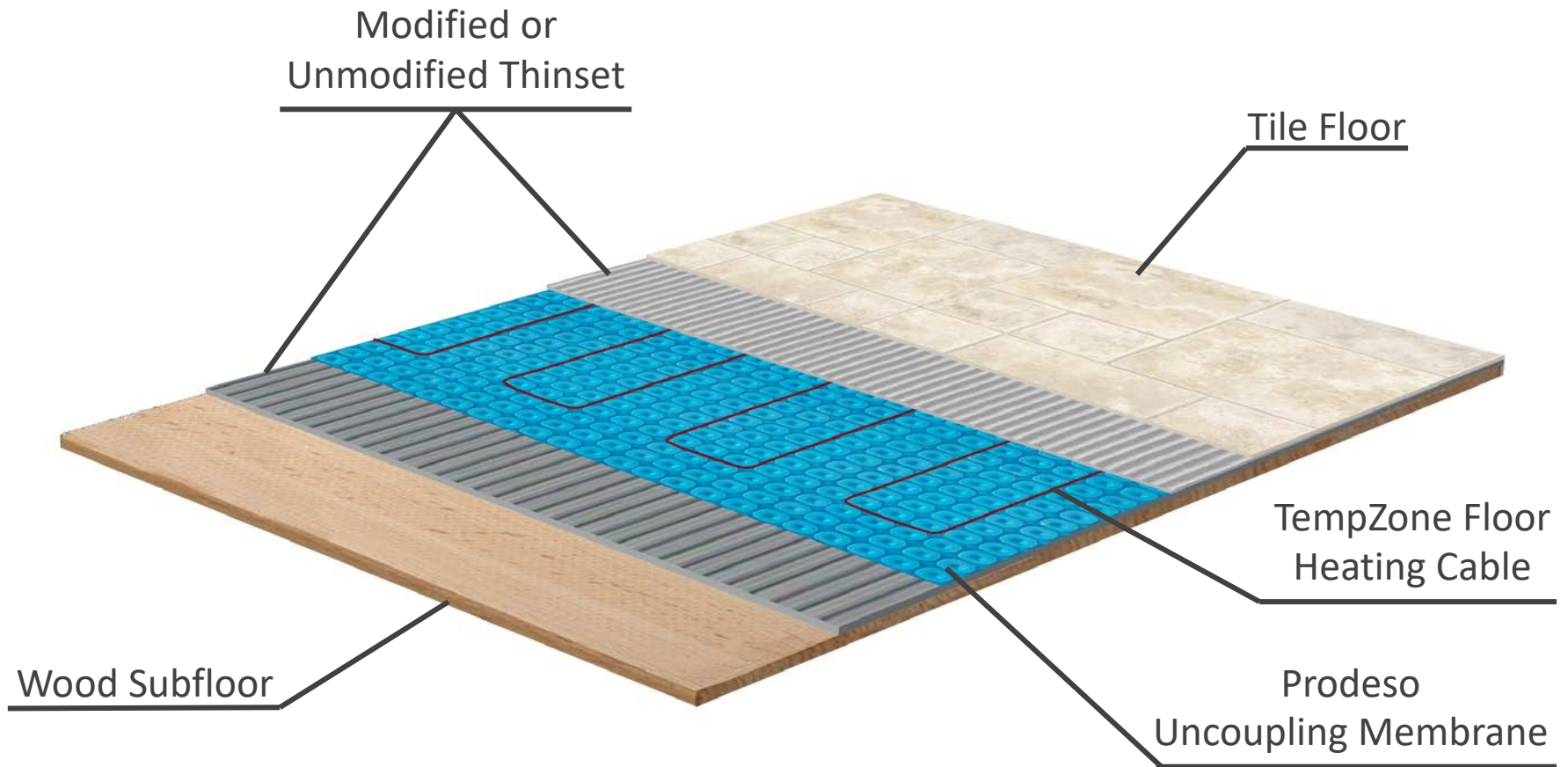
- TempZone Floor Heating Cable
- nSpire Touch WiFi Thermostat
- Circuit Check
- Prodeso Uncoupling Membrane





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Installation Cross-Section





Project Overview

Heating System



TempZone Cable

Power Requirements

Total Wattage	185 watts
Total Amperage	1.6 amps
Required Breakers	1 - 20 Amp Non-GFCI

Dimensions

Entire Space	40 Sq Ft
Prodeso Coverage	54 Sq Ft
Total Heated Area	15.6 Sq Ft (3.75 in. spacing)

Operating Cost

Per Hour	\$0.08 Calculation is based on the national average of \$0.08 per kWh. Consumption may vary based on individual conditions.
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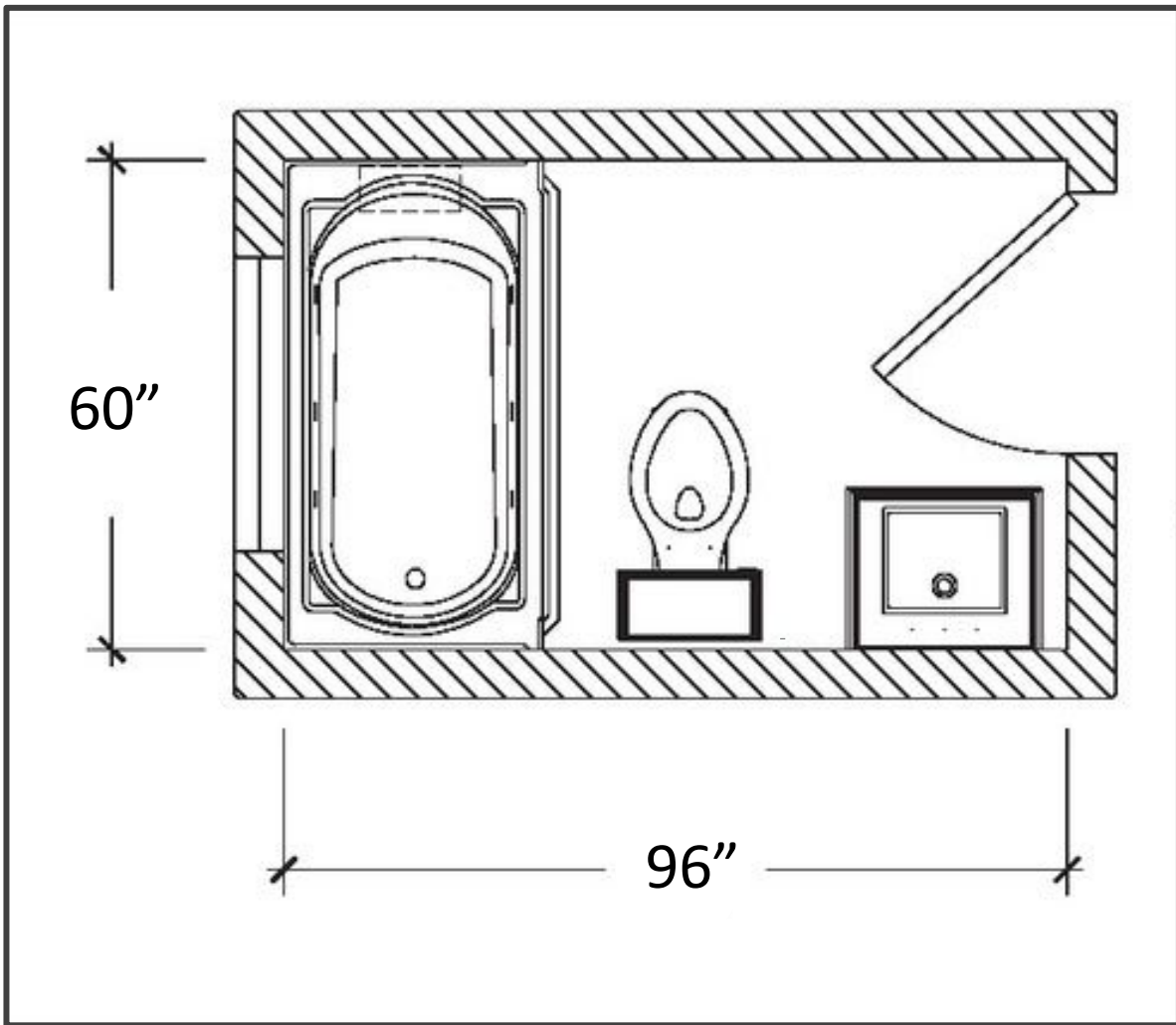


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Project Sketch

SIZE: 8'-0" x 5'-0"

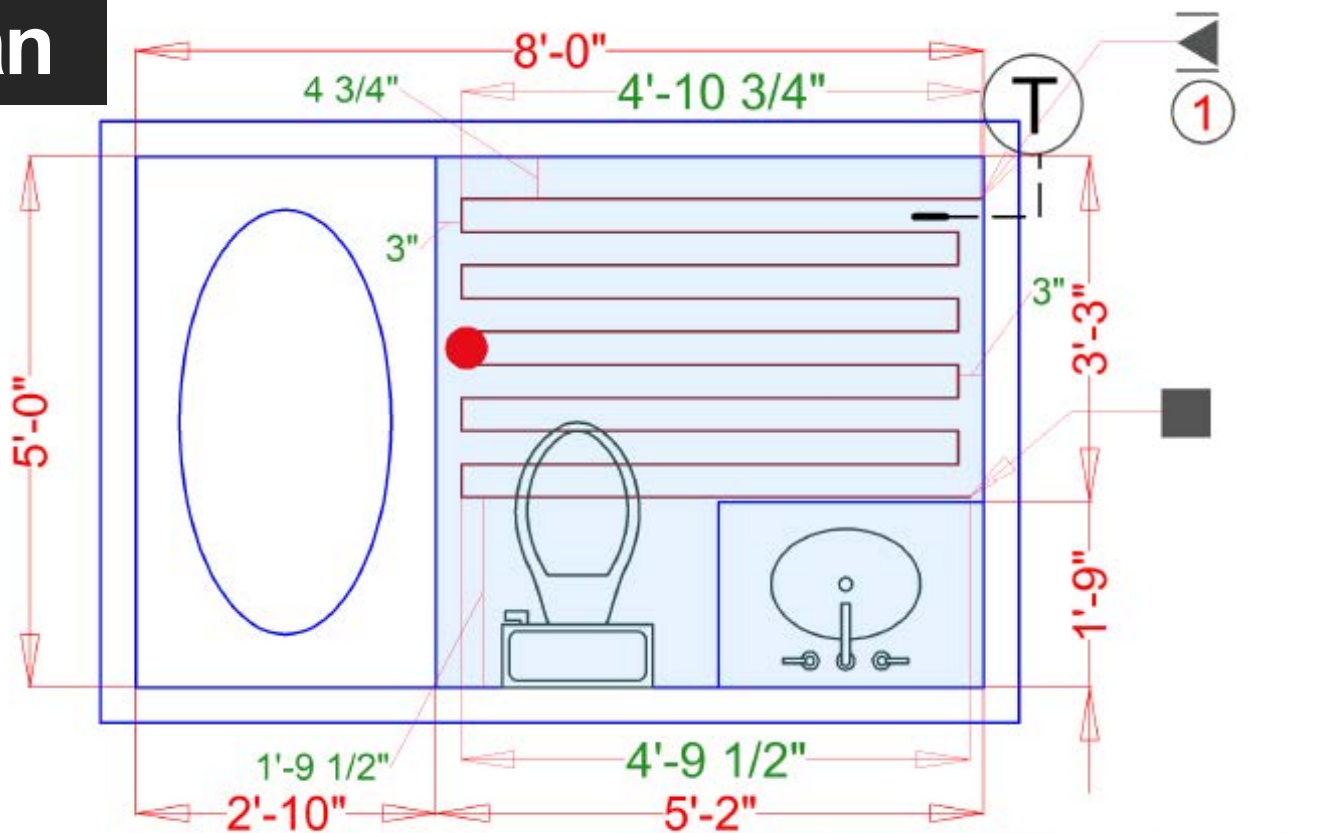
40 SQ. FT.





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SmartPlan



- ① - TCT120-3.7W-050; 1.6A; 77.84Ω; 15' Each run spaced @ 3.75".
 ● - Half-way mark for a cable.



Start End (T) Thermostat Floor sensor

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WarmlyYours Installation
Plan
#IP1513825

Date: 03/06/2020
Room: Plan 1
Flooring: Tile, Marble or Stone

Heating Product: TempZone 3.7W Cable 120V
Wattage: 11.84 W/Sq.ft. @ 3.75" spacing
Breaker(s): 1 x 15 Amp 120V Non-GFI Circuit

Operating Cost: \$0.01/hour @ \$0.10/kWh
Total Amperage: 1.54 Amps
Total Wattage: 184 Watts
Control: UDG4-4999-WY
Floor Load: 0.2 kW*
* used during thermostat setup



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Heating Cables

Items		Quantity	MSRP
	TempZone Cable – 50'	1	\$163.16
	Prodeso Uncoupling Membrane 3.3' x 16.4' (54 sq. ft.)	1	\$ 169.00

Controls

Items		Quantity	MSRP
	1 x nSpire Touch Programmable Thermostat	1	\$229.00

Accessories

Items		Quantity	MSRP
	Circuit Check	1	\$15.00

Total

\$576.16



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Test Your System

- Testing the floor heating system with an ohmmeter at every stage of installation will allow you to be certain that the heating element is functioning properly
- The Circuit Check is an installation monitor device that will alert you if the wire is damaged

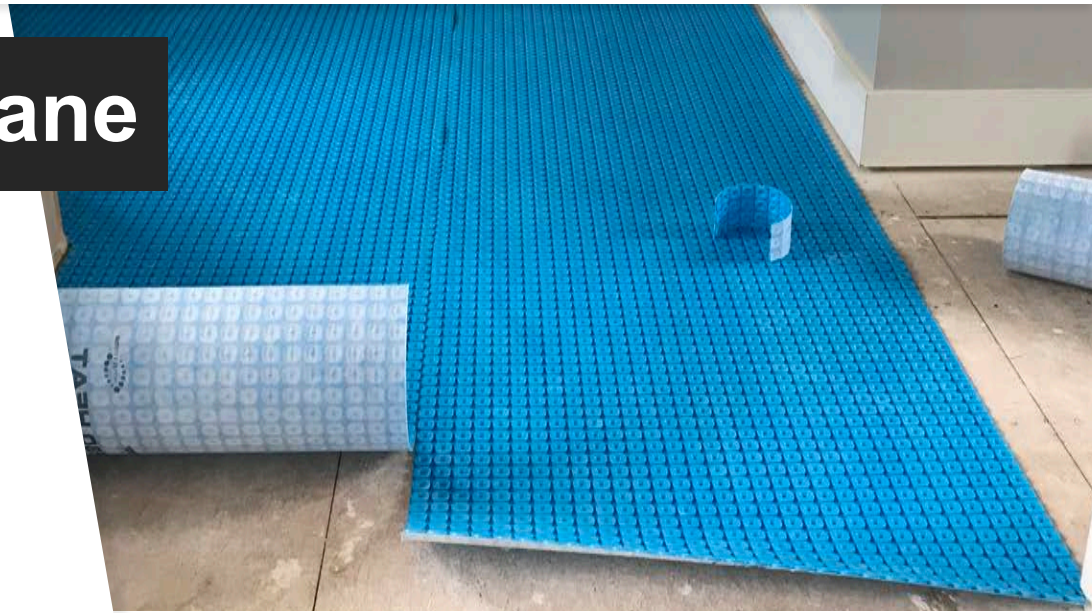




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Uncoupling Membrane

- Grooves in the membrane allow for electric floor heating cables to be laid out in any pattern while protecting them from floor load
- Follow SmartPlan guidelines for shaping/installing Prodeso
- Prodeso membrane is cut and then dry-fitted on the floor
- Make sure the studs of Prodeso membrane align properly
- Minimum tile size is 2" x 2"

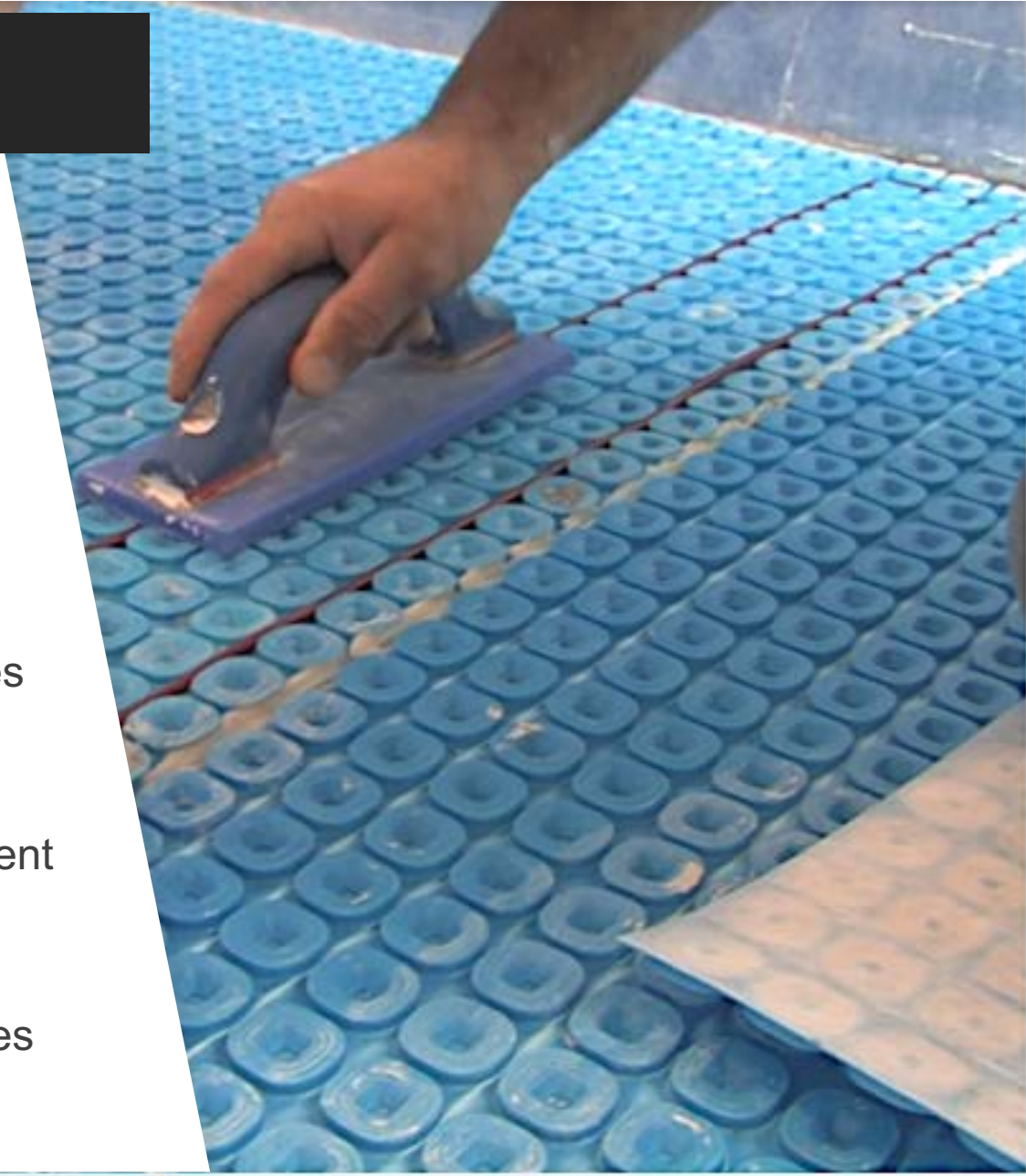




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TempZone Cable

- Electric floor heating cable is installed directly into the Prodeso membrane
- Cable is easily snapped into grooves between studs
- Rubber float can help guide cables into studs
- The membrane allows for consistent spacing of EFH cables
- Never cross/overlap heating cables

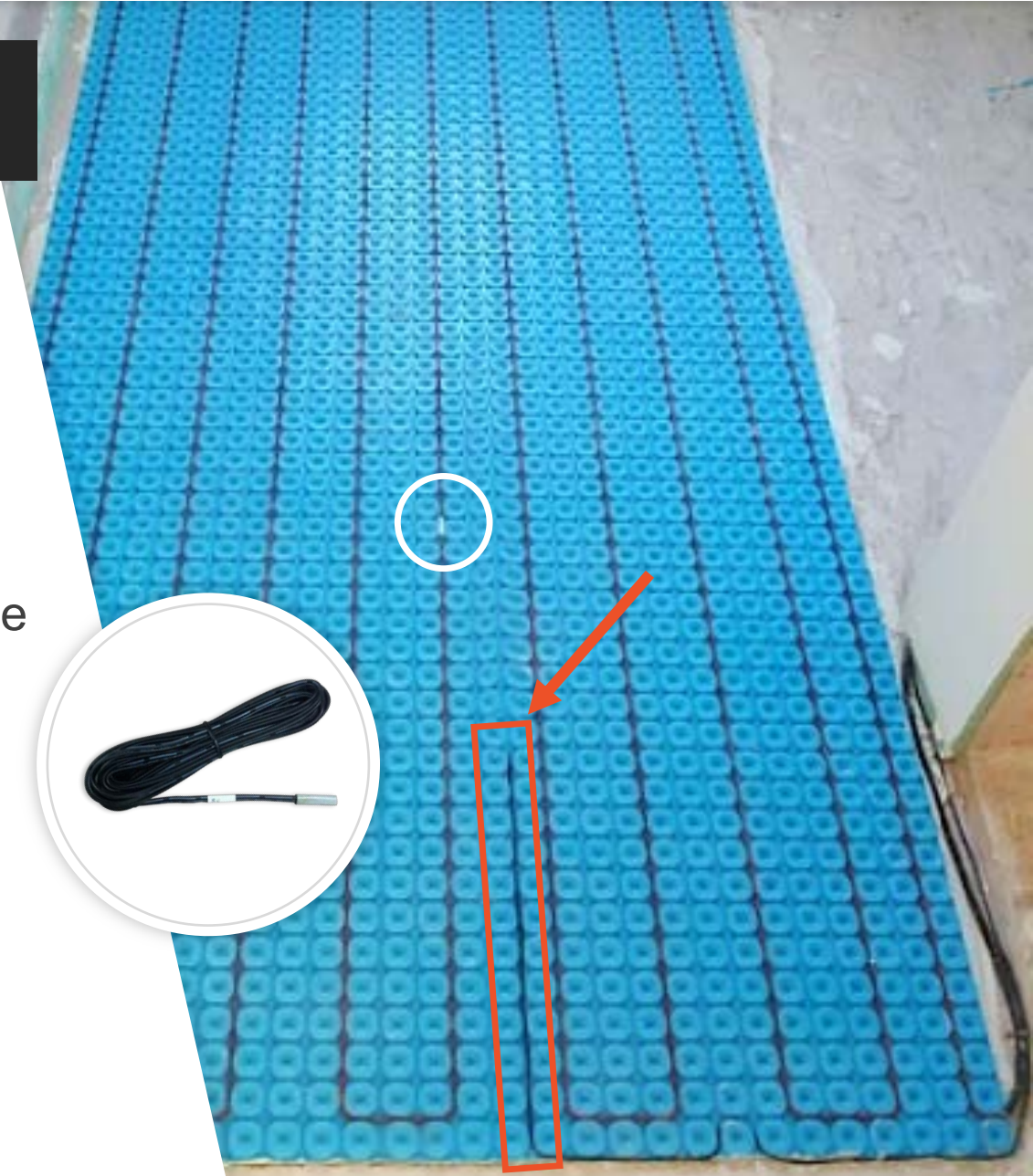




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Floor Sensor

- Position floor sensor between runs of cable
- Do not run sensor wire across heating cable
- Floor sensors are included inside every thermostat box

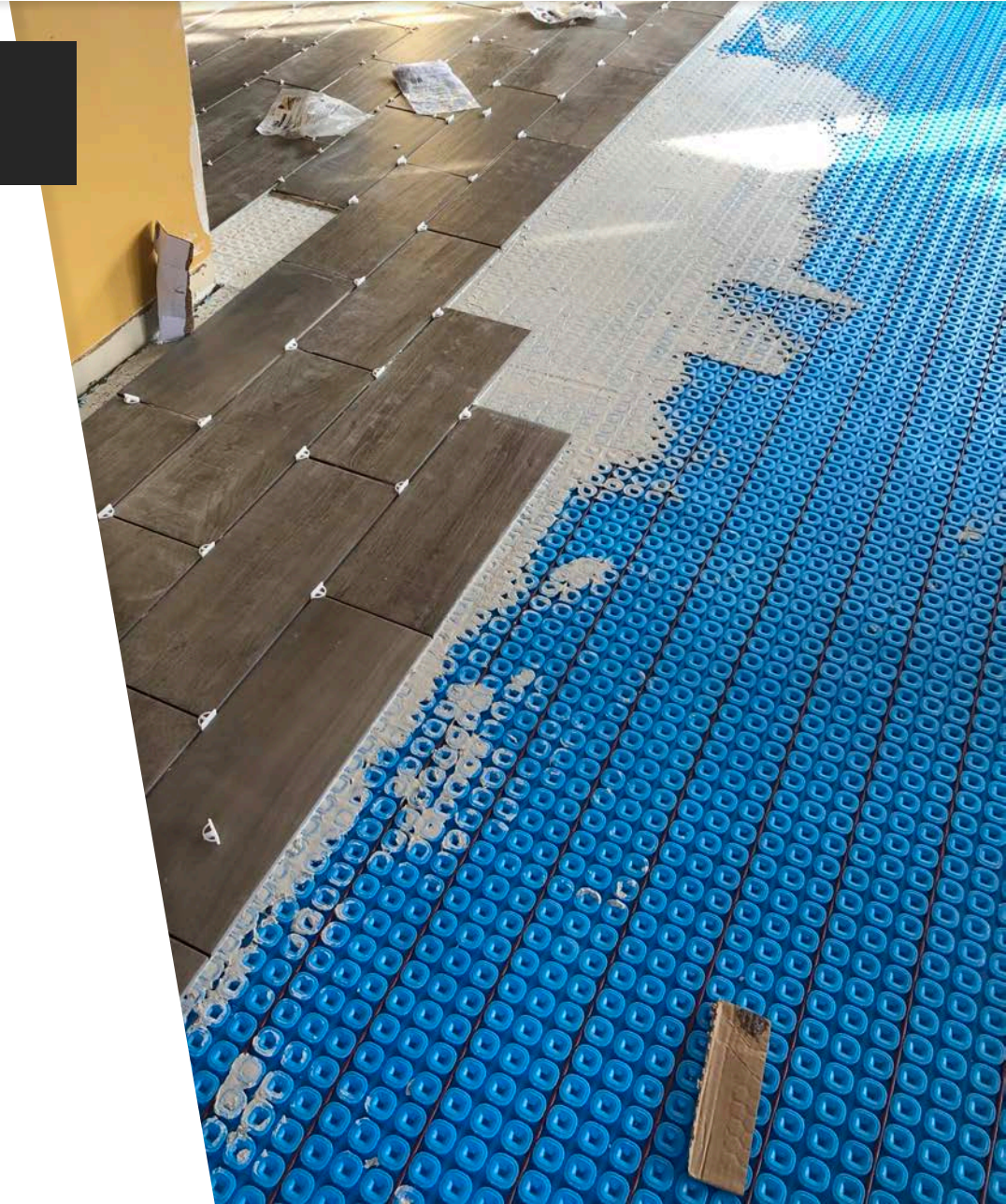




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Install Tile Floor

- Tile is installed directly on top of Prodeso and heating cable
- Be careful when using a trowel as to not nick the heating cable

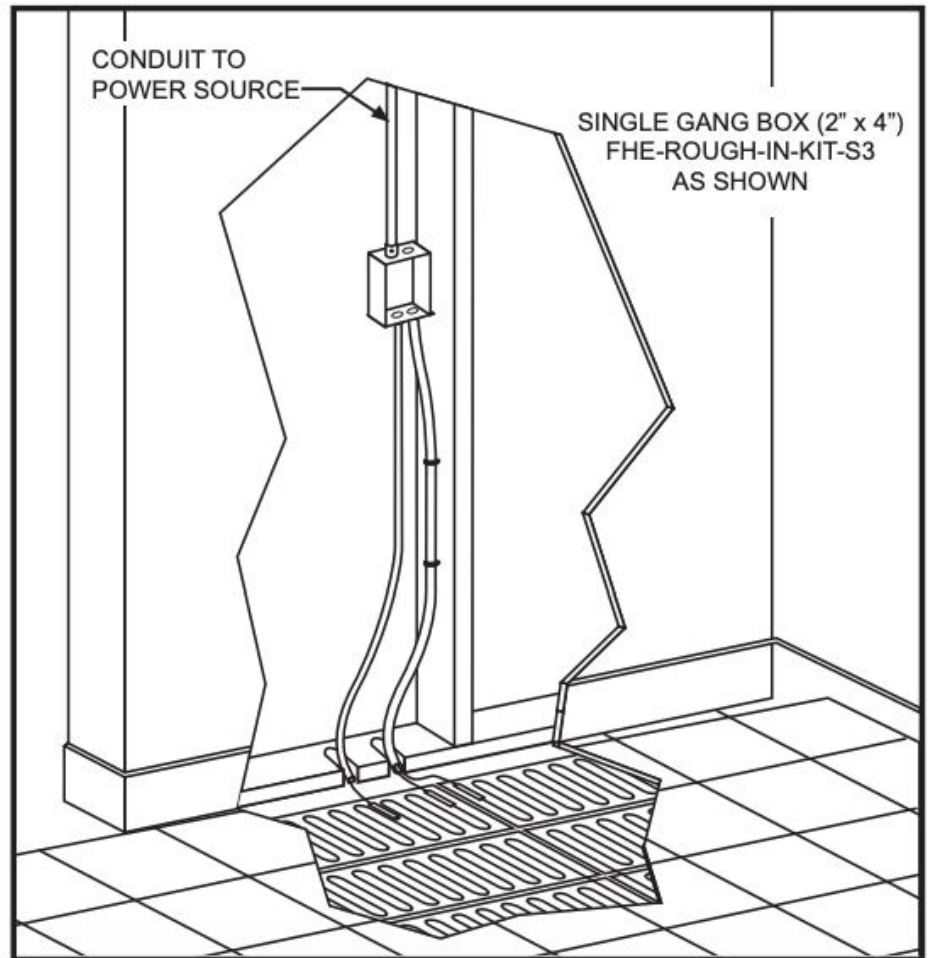




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Install Wiring & Conduit

- Install wiring per local electrical/building codes
- Local code may require that this step is done by a licensed electrician





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Install Thermostat

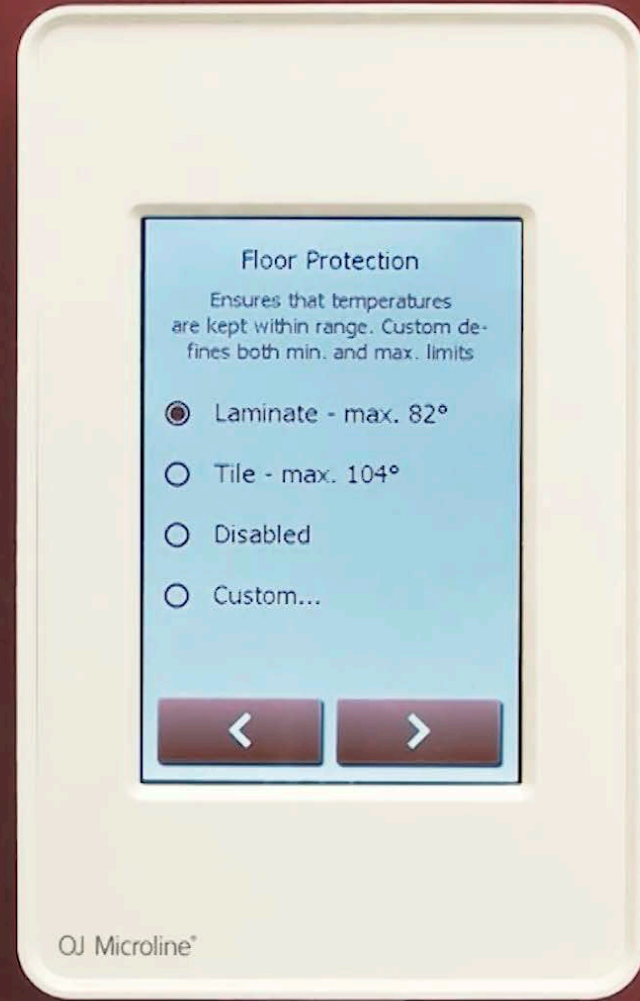
- Install thermostat in accordance with local electrical/building codes
- Local code may require that this is done by a licensed electrician





Set Thermostat

- At the Floor Protection step, indicate type of flooring used
- Tile allows for maximum heating at 104 degrees Fahrenheit
- For this project, set the limit to “Tile”
- Verify that “Sensor Application” is set to “Floor”





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Any Questions?

ANY?
Questions.



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Join Us For Our Next Webinar

**From A-Z: How to
Install LVT with
Floor Heating**

**Thursday, April 9th
1 p.m. CST**





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with our
Radiant Experts**

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Tuesdays - 11am & 4pm
Wednesdays - 4pm
Thursdays - 11am & 4pm
Fridays - 11am





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Contact Us

We're here if you have any questions.

Phone

(800) 875-5285

Email

jbillen@WarmlyYours.com

info@WarmlyYours.com

Web

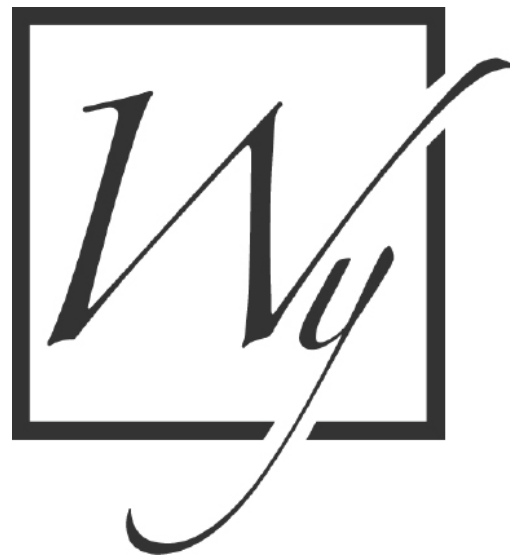
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**Until next time,
Stay Warm and Be Radiant**