
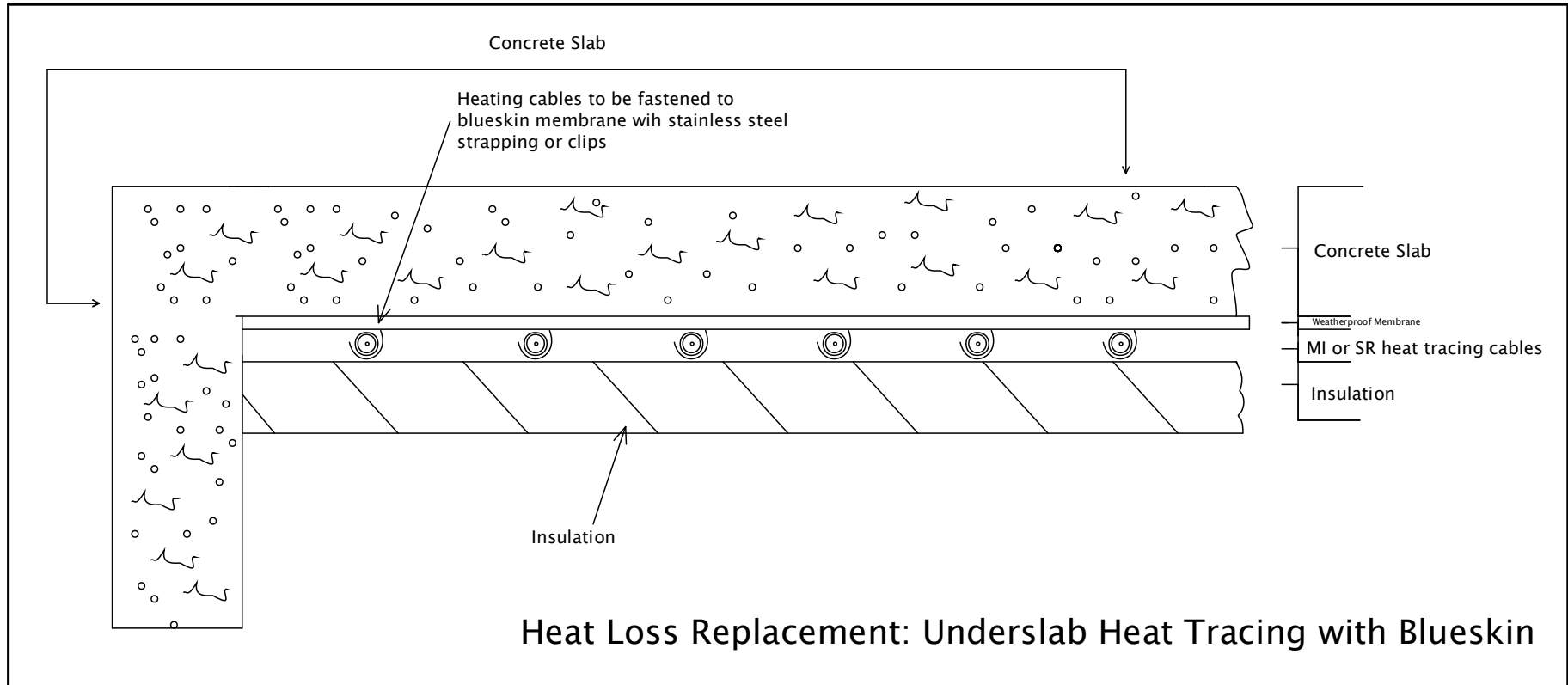


**Heat Loss Replacement – Underslab Heating Notes**


- Each zone/ area to be site measured and confirmed before cable installation
- Control to be at a minimum, a basic mechanical t/stat per zone
- Spacing per zone = Square footage x 12 / cable length in feet = spacing in inches
- Typical Cable spacing for HLR: 12" – 48"
- Wattage per square foot = cable watts / square foot of area to be heated.
- Typical watts per square foot for HLR = 5 – 8
- Cable type to be SR (Self regulating) or MI (Mineral insulated) type.

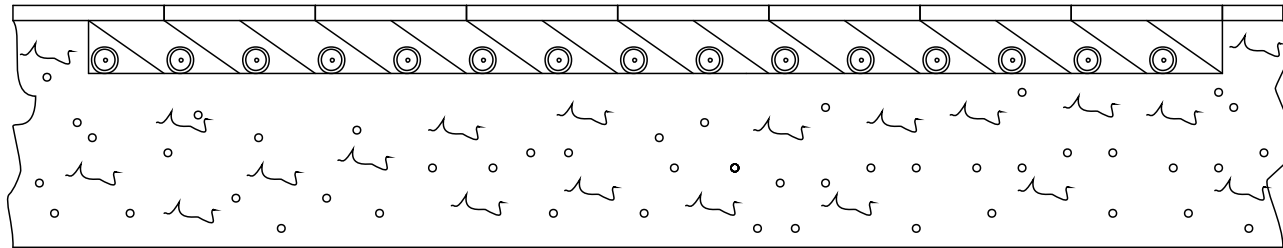
Drawing Number: NA	Scale: N.T.S.	Application: Heat Loss Replacement	Project Status: NA
		Drawn By: RG	Approved: NA
		Title: Heat Loss Replacement Cross Sectional Drawing	Date of Issue: NA
		Rev. 0	Page: 1



**Heat Loss Replacement – Underslab Heating Notes**

- Each zone/ area to be site measured and confirmed before cable installation
- Control to be at a minimum, a basic mechanical t/stat per zone
- Spacing per zone = Square footage x 12 / cable length in feet = spacing in inches
- Typical Cable spacing for HLR: 12" – 16"
- Wattage per square foot = cable watts / square foot of area to be heated.
- Typical watts per square foot for HLR = 5 – 8
- Cable type to be SR (Self regulating) or MI (Mineral insulated) type.

Drawing Number: NA	Scale: N.T.S.	Application: Heat Loss Replacement	Project Status: NA
		Drawn By: RG	Approved: NA
		Title: Heat Loss Replacement Cross Sectional Drawing	Date of Issue: NA
		Rev. 0	Page: 1




1" thick or less tiles/finished surface  
 1" - 2" depression left where heating cables are to be installed, cables to be strapped to base of concrete, and fully embedded in thinset, concrete, or drypack  
 Concrete Base Slab

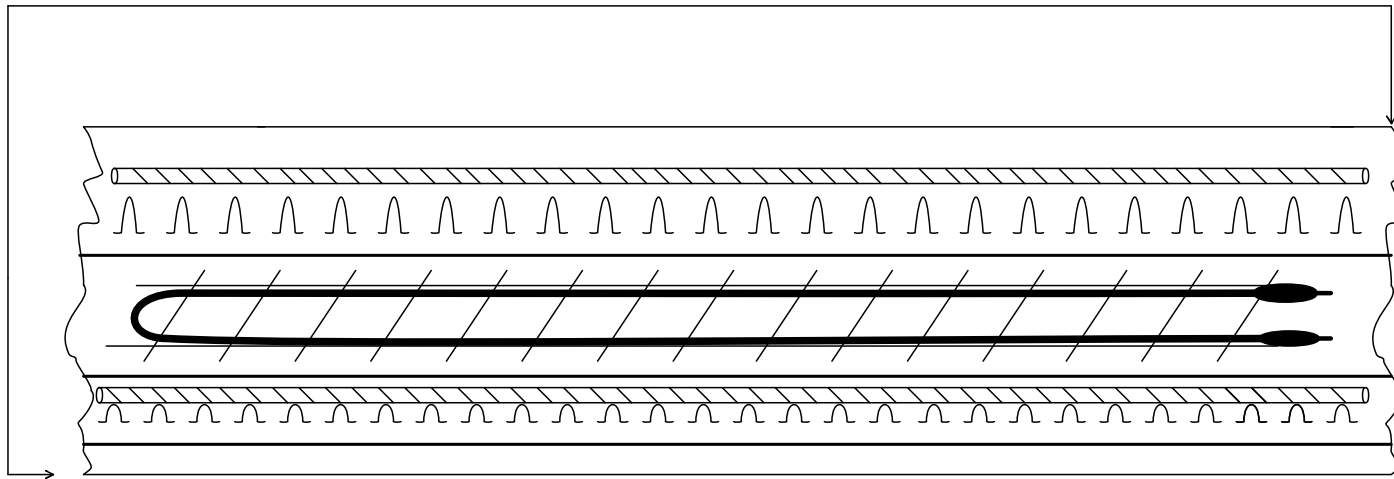
## Heat Loss Replacement: MI Cables in Slab

### Heat Loss Replacement – MI Cables embedded in concrete or mortar

- Each zone/ area to be site measured and confirmed before cable installation
- Location of cables to be marked out to prevent other trades from drilling into them
- Control to be at a minimum, a basic t/stat per zone
- Spacing per zone = Square footage x 12 / cable length in feet = spacing in inches
- Typical Cable spacing for heat loss replacement: 12" - 24"
- Wattage per square foot = cable watts / square foot of area to be heated.
- Typical watts per square foot for heat loss replacement: 3W-6W/Square Foot
- Cable type to be MI (Mineral insulated) type only.

Drawing Number: NA	Scale: N.T.S.	Application: Heat Loss Replacement	Project Status: NA
		Drawn By: RG	Approved: NA
		Title: Heat Loss Replacement Above Slab Cross Sectional Drawing	Date of Issue: NA
		Rev. 0	Page: 1

**\*\*Whole cross section to be fully embedded within concrete slab\*\***



Concrete Floor Slab

5" - 6" Chairs (must not come into contact with MI Cable)  
Top Layer of Steel Support

MI Cable installed on 6" x6" Mesh Grid


2"-3" Chairs  
Bottom Layer of Steel Support

Dry Wood Forms

## Heat Loss Replacement: Cables in Slab

### Heat Loss Replacement – Cables embedded in slab – Underslab Heating Notes

- Each zone/ area to be site measured and confirmed before cable installation
- Location of cables to be marked out to prevent other trades from drilling into them
- Control to be at a minimum, a basic mechanical t/stat per zone
- Spacing per zone = Square footage x 12 / cable length in feet = spacing in inches
- Typical Cable spacing for HLR: 6" - 16"
- Wattage per square foot = cable watts / square foot of area to be heated.
- Typical watts per square foot for HLR = 5 - 12
- Cable type to be MI (Mineral insulated) type only

Drawing Number: NA	Scale: N.T.S.	Application: Heat Loss Replacement	Project Status: NA
		Drawn By: RG	Approved: NA
		Title: Heat Loss Replacement Cross Sectional Drawing	Date of Issue: NA
		Rev. 0	Page: 1