

Advanced Comfort Systems, Inc.

123 Carlton Ave
No. Smithfield R.I 02896
(401) 356-0230



Design Worksheet

Name: _____
Address: _____
State: _____
Zip Code: _____

Date: _____

Phone: () - _____
E-mail: _____

House Location: _____

This Design Work Sheet will be used to design the Radiant Heating System for your house. Please take the time to research and plan on the items below, as these are important factors in your Radiant Heating System. If they change, your system will need to be re-designed to get the most efficient system.

Below is an example of what we are looking for. If you do not understand please do not hesitate to call and ask questions.

EXAMPLE:

Boiler: Oil Direct Vent Chimney Outside Air Inlet
 Gas Direct Vent Chimney Outside Air Inlet

Domestic Hot Water: 1 Whirlpool Tub _____
 1 Shower Head 2.5 GPM
 1 Shower Head 1.8 GPM
 1 Dish Washer
 _____ Other:

Do you use a lot of Hot Water? yes _____

ROOM

Area: 475 sq ft

Method: Underlayment UnderJoist

Quick Trak

Sub Floor: Tongue & Groove Fir

Thickness: 3/4" * Note: If you are going to add 1/2" Plywood on top add it here

Floor Covering: Tile/Marble:

Thickness:

Hardwood: OAK

Thickness: 3/4"

Softwood:

Thickness:

Other:

Thickness:

Floor Joist Spacing: 16 inch's On Center

Floor Joist Size: 2 x 12 2 X 8, 2 X 10, 2 X 12

Insulation under Floor Rv = 19

Insulation in Wall Rv = 19

Insulation in Ceiling Rv = 35

Outside Walls * Any wall that will have cold outside air against it

Wall #1 Length 18'

Window	Size	Rv
<u>1</u>	<u>2'-8" x 5'</u>	<u>3</u>
<u>2</u>	<u>32" x 60"</u>	<u>2.77</u>
_____	_____	_____
_____	_____	_____

Door	Size	Rv
<u>1</u>	<u>3' x 7'</u>	<u>3.5</u>
_____	_____	_____
_____	_____	_____

Wall #2 Length 20'

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Wall #3 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Zone #: **1** * Note: Put the same number in this spot for all the rooms you want to control from (1) thermostat.

Your Home

Boiler: Oil Direct Vent Chimney Outside Air Inlet
 Gas Direct Vent Chimney Outside Air Inlet

Notes:

Domestic Hot Water: _____ Whirlpool Tub
 _____ Shower Head _____ GPM
 _____ Shower Head _____ GPM
 _____ Dish Washer
 _____ Other:

Do you use a lot of Hot Water? _____

Notes:

Wall #3 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Zone #:

Notes:

DINNING ROOM

Area: _____ sq ft

Method:	Underlayment	Under Joist	Quick Trak
Sub Floor:			Thickness:
Floor Covering:	Tile/Marble:		Thickness:
	Hardwood:		Thickness:
	Softwood:		Thickness:
	Other:		Thickness:

Floor Joist Spacing: _____ inch's On Center

Floor Joist Size: _____ (2 X 8, 2 X 10, 2 X 12)

Insulation under Floor Rv = _____

Insulation in Wall Rv = _____

Insulation in Ceiling Rv = _____

Outside Walls * Any wall that will have cold outside air against it

Wall #1 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Wall #2 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Wall #3 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Zone #:

Notes:

FAMILY ROOM

Area: _____sq ft

Method:	Underlayment	Under Joist	Quick Trak
Sub Floor:			Thickness:
Floor Covering:	Tile/Marble:		Thickness:
	Hardwood:		Thickness:
	Softwood:		Thickness:
	Carpet:		Kind:
	Pad:		Thickness:
	Other:		Thickness:

Floor Joist Spacing: _____ inch's On Center
 Floor Joist Size: _____ (2 X 8, 2 X 10, 2 X 12)
 Insulation under Floor Rv = _____
 Insulation in Wall Rv = _____

Insulation in Ceiling Rv = _____
Outside Walls * Any wall that will have cold outside air against it

Wall #1 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Wall #2 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Wall #3 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Zone #:

Notes:

Wall #3 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Zone #:

Notes:

BATH ROOM # 1

Area: _____ sq ft

Method: Underlayment Under Joist Quick Trak

Sub Floor: Thickness:

Floor Covering: Tile/Marble: Thickness:

Other: Thickness:

Floor Joist Spacing: _____ inch's On Center

Floor Joist Size: _____ (2 X 8, 2 X 10, 2 X 12)

Insulation under Floor Rv = _____

Insulation in Wall Rv = _____

Insulation in Ceiling Rv = _____

Outside Walls * Any wall that will have cold outside air against it

Wall #1 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Wall #2 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Wall #3 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Zone #:

Notes:

BATH ROOM # 2

Area: _____ sq ft

Method: Underlayment Under Joist Quick Trak

Sub Floor: Thickness:

Floor Covering: Tile/Marble: Thickness:

Hardwood: Thickness:

Other: Thickness:

Floor Joist Spacing: _____ inch's On Center

Floor Joist Size: _____ (2 X 8, 2 X 10, 2 X 12)

Insulation under Floor Rv = _____

Insulation in Wall Rv = _____

Insulation in Ceiling Rv = _____

Outside Walls * Any wall that will have cold outside air against it

Wall #1 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Wall #2 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Wall #3 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Zone #:

Notes:

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Zone #:

Notes:

MASTER BED ROOM

Area: _____ sq ft

Method:	Underlayment	Under Joist	Quick Trak
Sub Floor:			Thickness:
Floor Covering:	Tile/Marble:		Thickness:
	Hardwood:		Thickness:
	Softwood:		Thickness:
	Carpet:		Kind:
	Pad:		Thickness:

Floor Joist Spacing: _____ inch's On Center

Floor Joist Size: _____ (2 X 8, 2 X 10, 2 X 12)

Insulation under Floor Rv = _____

Insulation in Wall Rv = _____

Insulation in Ceiling Rv = _____

Outside Walls * Any wall that will have cold outside air against it

Wall #1 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Wall #2 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Wall #3 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Zone #:

Notes:

BED ROOM # 1

Area: _____ sq ft

Method:	Underlayment	Under Joist	Quick Trak
Sub Floor:			Thickness:
Floor Covering:	Tile/Marble:		Thickness:
	Hardwood:		Thickness:
	Softwood:		Thickness:
	Carpet:		Kind:
	Pad:		Thickness:

Floor Joist Spacing: _____ inch's On Center
 Floor Joist Size: _____ (2 X 8, 2 X 10, 2 X 12)
 Insulation under Floor Rv = _____
 Insulation in Wall Rv = _____
 Insulation in Ceiling Rv = _____

Outside Walls * Any wall that will have cold outside air against it

Wall #1 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Wall #2 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Wall #3 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Zone #:

Notes:

Wall #3 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Zone #:

Notes:

BED ROOM # 3

Area: _____sq ft

Method:	Underlayment	Under Joist	Quick Trak
Sub Floor:			Thickness:
Floor Covering:	Tile/Marble:		Thickness:
	Hardwood:		Thickness:
	Softwood:		Thickness:
	Carpet:		Kind:
	Pad:		Thickness:

Floor Joist Spacing: _____ inch's On Center

Floor Joist Size: _____ (2 X 8, 2 X 10, 2 X 12)

Insulation under Floor Rv = _____

Insulation in Wall Rv = _____

Insulation in Ceiling Rv = _____

Outside Walls * Any wall that will have cold outside air against it

Wall #1 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Wall #2 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Wall #3 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Zone #:

Notes:

GARAGE

Area: _____ sq ft

Method: Underlayment

Floor Covering: Concrete: _____ Thickness: _____

Insulation under Floor Rv = _____

Insulation in Wall Rv = _____

Insulation in Ceiling Rv = _____

Outside Walls * Any wall that will have cold outside air against it

Wall #1 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____

Door	Size	Rv

Wall #2 Length _____

Window	Size	Rv
Door	Size	Rv

Wall #3 Length _____

Window	Size	Rv
Door	Size	Rv

Zone #:

Notes:

ROOM:

Area: _____sq ft

Method:	Underlayment	Under Joist	Quick Trak
Sub Floor:			Thickness:
Floor Covering:	Tile/Marble:		Thickness:
	Hardwood:		Thickness:
	Softwood:		Thickness:
	Carpet:		Kind:
	Pad:		Thickness:

Concrete:
Other:

Thickness:
Thickness:

Floor Joist Spacing: _____ inch's On Center
Floor Joist Size: _____ (2 X 8, 2 X 10, 2 X 12)
Insulation under Floor Rv = _____
Insulation in Wall Rv = _____
Insulation in Ceiling Rv = _____

Outside Walls * Any wall that will have cold outside air against it

Wall #1 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Wall #2 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Wall #3 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
Door	Size	Rv
_____	_____	_____
_____	_____	_____

Zone #: _____

Notes:

ROOM:

Area: _____ sq ft

Method: Underlayment Under Joist Quick Trak

Sub Floor: Thickness:

Floor Covering: Tile/Marble: Thickness:

Hardwood: Thickness:

Softwood: Thickness:

Carpet: Kind:

Pad: Thickness:

Concrete: Thickness:

Other: Thickness:

Floor Joist Spacing: _____ inch's On Center

Floor Joist Size: _____ (2 X 8, 2 X 10, 2 X 12)

Insulation under Floor Rv = _____

Insulation in Wall Rv = _____

Insulation in Ceiling Rv = _____

Outside Walls * Any wall that will have cold outside air against it

Wall #1 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Wall #2 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____

 Wall #3 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Zone #:

Notes:

ROOM:

Area: _____ sq ft

Method:	Underlayment	Under Joist	Quick Trak
Sub Floor:			Thickness:
Floor Covering:	Tile/Marble:		Thickness:
	Hardwood:		Thickness:
	Softwood:		Thickness:
	Carpet:		Kind:
	Pad:		Thickness:
	Concrete:		Thickness:
	Other:		Thickness:

Floor Joist Spacing: _____ inch's On Center

Floor Joist Size: _____ (2 X 8, 2 X 10, 2 X 12)

Insulation under Floor Rv = _____

Insulation in Wall Rv = _____

Insulation in Ceiling Rv = _____

Outside Walls * Any wall that will have cold outside air against it

Wall #1 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Floor Joist Spacing: _____ inch's On Center
 Floor Joist Size: _____ (2 X 8, 2 X 10, 2 X 12)
 Insulation under Floor Rv = _____
 Insulation in Wall Rv = _____
 Insulation in Ceiling Rv = _____
 Outside Walls * Any wall that will have cold outside air against it

Wall #1 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Wall #2 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Wall #3 Length _____

Window	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
Door	Size	Rv
_____	_____	_____
_____	_____	_____
_____	_____	_____

Zone #:

Notes:

Special Notes