

# For Residential and Commercial Applications

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

## SmartTrac™ Radiant Panel Solution

Watts Radiant's SmartTrac™ is a non-structural, modular board designed for subfloor, wall and ceiling radiant heating and cooling applications. It is manufactured from 5/8" (15.88 mm) thick MDF (medium density fiberboard) and is designed for use with 3/8" (9.5 mm), ASTM F876 PEX or ASTM F2623 PERT.

### Standard Panel

DESCRIPTION	PROPERTY
Per panel weight	8.95 lbs (4.06 kg)
Dimensions	24" x 24" x 5/8" (610 mm x 610 mm x 15.88 mm)
Tube spacing	8" (203.2 mm) O.C.

### Utility Panel (Optional)

DESCRIPTION	PROPERTY
Per panel weight	8.65 lbs (3.92 kg)
Dimensions	24" x 24" x 5/8" (610 mm x 610 mm x 15.88 mm)
Tube spacing	4" (101.6 mm) O.C.

### MDF Technical Data

DESCRIPTION	PROPERTY
Density	46 lb/ft <sup>3</sup> (7.4 kg/mm <sup>3</sup> )
Internal Bond	130 lb/in <sup>2</sup> (896 kPa)
Screw Holding, Face	225 lbs (102 kg)
Screw Holding, Edge	200 lbs (91 kg)
Flame Spread Rating	Class 3 (C)
Moisture Content	4 - 6%
Thickness Swell	5%
Linear Expansion	0.3%
Approvals	Awarded CARB ULEF Exemption. Products meet CARB ATCM 93120 Phase 2 emission requirements. Meets physical properties of ANSI A208.2-2009 Grade 130

Average physical properties for 3/4" (19 mm) panel, based on a 5 panel average, when tested in accordance with ASTM D1037. Emissions tested in accordance with ASTM E-1333.

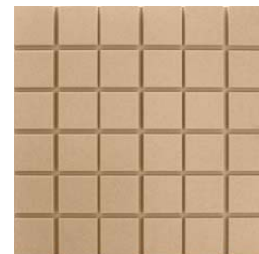
### U.S. Patent # 6,533,185 and Patents Pending

#### ⚠ WARNING

This Engineering Sheet is not intended to provide full installation instructions and safety information. In order to avoid property damage or injury, please refer to the complete installation manual and product safety information provided with the product.



Standard Panel



Utility Panel (Optional)

#### ⚠ WARNING

SmartTrac™ must be installed in accordance with all Watts Radiant installation procedures, including information provided in Watts Radiant's SmartTrac™ Installation Manual.

- Ensure that accurate room-by-room heat loss analysis is completed prior to installation.
- For installation over wood subfloor, ensure subfloor is dry and flat according to guidelines in installation manual.
- For installation over concrete slab, moisture considerations must be carefully addressed. It is strongly recommended that all slabs below grade and slabs on grade be sealed against moisture penetration.
- Finished flooring options above SmartTrac™ include hardwood, engineered wood, laminate, tile or stone with thinset, vinyl or carpet. Details for installation are included in the manual.

#### Product Options

Description	Model#	Order#
Standard Panel	ST838-ONE	81016822
Utility Panel (Optional)	ST838-UTILITY	81016823

**WattsRadiant™** Watts Radiant product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Radiant Technical Service. Watts Radiant reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts Radiant products previously or subsequently sold.

A Watts Water Technologies Company

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