

Figure 87: Elstein BSI construction panel 1250 x 1875 mm equipped with HTS

Elstein BSI construction panels are infrared radiation areas, which can be equipped with the ceramic IR panel radiators HTS or HSR.

The ceramic infrared panel radiators are fixed to the MBO mounting sheets and surrounded with a housing of frame and capping sections.

All housing parts consist of stainless steel so that radiators with high power can be used, too.

The BSI construction panels are factory assembled so that the user only has to do the wiring, insert the BSI panel in a steel section frame to be made on site and connect the panel with the electricity mains.

Elstein BSI construction panels can be fitted with HTS radiators up to 800 W or rather with HSR radiators up to 1000 W and are suited for building infrared heating areas in any dimensions.

Length in mm

	Inner dim. (Outer dim.) [No. of rad.]	250 (261) [2]	375 (386) [3]	500 (511) [4]	625 (636) [5]	750 (761) [6]	875 (886) [7]	1000 (1011) [8]	1125 (1136) [9]	1250 (1261) [10]	1375 (1386) [11]	1500 (1511) [12]		Radiator wattage
Width in mm	125 (136) [1]	0.50 to 2.00	0.75 to 3.00	1.00 to 4.00	1.25 to 5.00	1.50 to 6.00	1.75 to 7.00	2.00 to 8.00	2.25 to 9.00	2.5 to 10.00	2.75 to 11.00	3.00 to 12.00	kW	250 W to 1000 W
	250 (261) [2]	1.00 to 4.00	1.50 to 6.00	2.00 to 8.00	2.50 to 10.00	3.00 to 12.00	3.50 to 14.00	4.00 to 16.00	4.50 to 18.00	5.00 to 20.00	5.50 to 22.00	6.00 to 24.00	kW	250 W to 1000 W
	375 (386) [3]	1.25 to 6.00	2.25 to 9.00	3.00 to 12.00	3.75 to 15.00	4.50 to 18.00	5.25 to 21.00	6.00 to 24.00	6.75 to 27.00	7.50 to 30.00	8.25 to 33.00	9.00 to 36.00	kW	250 W to 1000 W
	500 (511) [4]	2.00 to 8.00	3.00 to 12.00	4.00 to 16.00	5.00 to 20.00	6.00 to 24.00	7.00 to 28.00	8.00 to 32.00	9.00 to 36.00	10.00 to 40.00	11.00 to 44.00	12.00 to 48.00	kW	250 W to 1000 W
	625 (636) [5]	2.50 to 10.00	3.75 to 15.00	5.00 to 20.00	6.25 to 25.00	7.50 to 30.00	8.75 to 35.00	10.00 to 40.00	11.25 to 45.00	12.50 to 50.00	13.75 to 55.00	15.00 to 60.00	kW	250 W to 1000 W
	750 (761) [6]	3.00 to 12.00	4.50 to 18.00	6.00 to 24.00	7.50 to 30.00	9.00 to 36.00	10.50 to 42.00	12.00 to 48.00	13.50 to 54.00	15.00 to 60.00	16.50 to 66.00	18.00 to 72.00	kW	250 W to 1000 W
	875 (886) [7]	3.50 to 14.00	5.25 to 21.00	7.00 to 28.00	8.75 to 35.00	10.50 to 42.00	12.25 to 49.00	14.00 to 56.00	15.75 to 63.00	17.50 to 70.00	19.25 to 77.00	21.00 to 84.00	kW	250 W to 1000 W
	1000 (1011) [8]	4.00 to 16.00	6.00 to 24.00	8.00 to 32.00	10.00 to 40.00	12.00 to 48.00	14.00 to 56.00	16.00 to 64.00	18.00 to 72.00	20.00 to 80.00	22.00 to 88.00	24.00 to 96.00	kW	250 W to 1000 W

Maximum surface rating 64.0 kW/m<sup>2</sup> Weight approx. 50 kgs/m<sup>2</sup> Other dimensions and surface ratings available on request  
The outer dimensions indicated in the table do not include the mounting fishplates.

Figure 88: Overview of the standard dimensions, outer dimensions ( ), number of radiators [ ] and the connected loads in kW

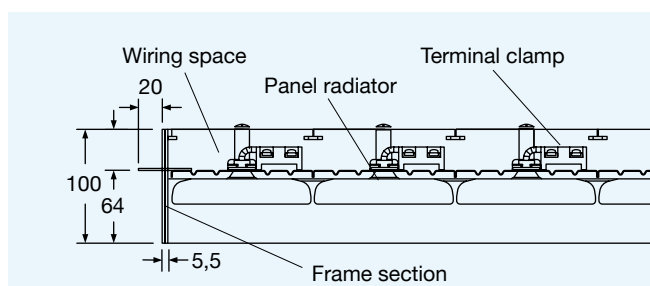


Fig. 89: Structural design of the BSI construction panel  
Dimensions in mm

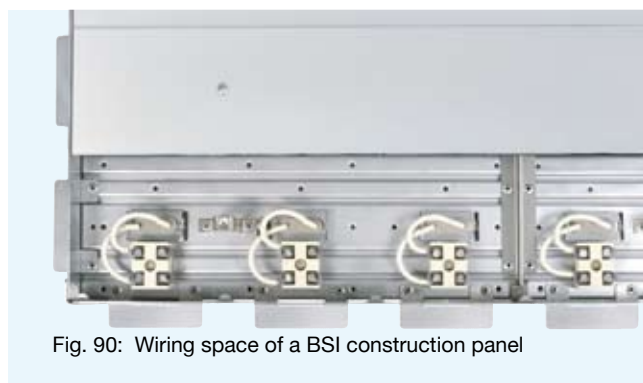


Fig. 90: Wiring space of a BSI construction panel

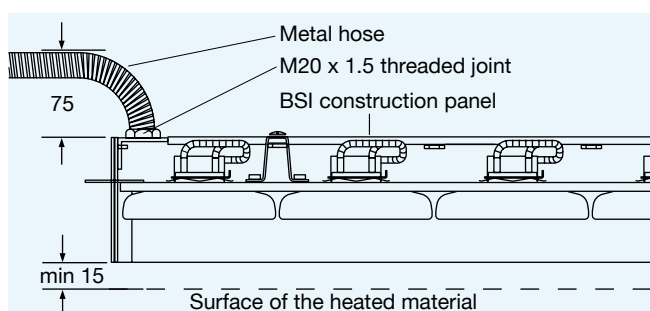


Fig. 91: Arrangement of the connection unit for establishing the mains connection. Dimensions in mm



Fig. 92: BSI construction panel, inserted in a steel section frame

#### Standard scope of delivery (variants available on request)

##### Ceramic infrared radiators HTS and T-HTS or HSR and T-HSR, fitted

Radiators can be chosen from the radiator power ratings 250 W, 400 W, 600 W and 800 W. The HSR radiators can be fitted also up to 1000 W. Mixed radiator wattages can also be fitted. One radiator with integrated thermocouple (T-HTS or T-HSR respectively) is provided for each construction panel.

##### Frame sections with mounting fishplates and capping sections both made from stainless steel, fitted

These components are used to surround the ceramic infrared radiators fixed to the MBO mounting sheets and to hang the BSI construction panel into a steel section frame to be built on site.

##### AK bipolar terminal clamps, fitted and connected with radiator power leads

For the electrical wiring of the individual radiators in conjunction with heat resistant insulated nickel wires and the connection of the thermocouple in conjunction with the heat resistant insulated thermo line.

##### Mounting units, enclosed, individual parts are not fitted

A mounting unit contains an angle section, up to 3 heat resistant flexible metal hoses with a length of 1m and screw fitting accessories. The hoses are used to hold the nickel wire and thermo line and to protect them from mechanical stress. The mounting units can be fixed to anywhere on the BSI frame section.

##### Wiring material (nickel wire, thermo line), enclosed

Nickel wire (2.5 mm<sup>2</sup>, max. 500 °C, max. 11 A) is supplied for the electrical wiring of the ceramic infrared radiators. The thermo line (1 mm<sup>2</sup>, max. 400 °C) is used to connect the thermocouple to the controller. The Elstein product range includes a compensating line (1.5 mm<sup>2</sup>, max. 100 °C) for extending this connection outside the IR radiation area.

Our instructions for mounting, operation and safety must be observed.