Uponor product specification

Uponor product range: Uponor Siccus FX 30mm

Uponor product code(s): 1086316

Product specification:

Insulating material	Expanded polystyrene (EPS)
Foil thickness	0.1mm
Compressive strength 10% max deflection	kPa200 to EN826
Thermal conductance at 10°C	0.033W/mK
Fire class to EN13501-1	Class E
Approvals	CE marked to EN13163
Dimensions LxWxD (mm)	1200 x 800 x 30
Compatible pipe size	16mm

Application:

The Floating Floor Panel can be laid on existing floor surfaces. It is an ideal system for retrofitting UFH, or as an alternative to screeded floors. The pre-grooved insulation floor panel is made of polystyrene, it utilises a thick and designed for use with heat emission plates to distribute the heat over a wide area. When used on a ground floor installation, additional insulation may be required to ensure compliance with Building Regulations and to minimize downward losses (<= 10W/m2).

The new Siccus FX system is an alternative to traditional floating floors with a bonded foil heat emitting top surface as opposed to separate heat emission plates allowing for quicker and easier installs. The Siccus FX system can also be used for timber suspended and raised access floors. This system incorporates a much higher compressive strength of 200Kpa.

Installation:

Ensure all surfaces are cleaned to ensure no deviation in the board. Floors should be levelled before laying of the Siccus panels. Panels can be simply cut to size by using a sharp blade. Once the pipe is installed it recommended to either lay the finish floor as soon as possible or a temporary boarding to ensure no damage to the system.

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Floor finishes:

Wood flooring
This system allows for the immediate laying of wood/laminate floor (7mm +). We recommend either a 2mm min cellfoam or heavy gauge paper is laid in-between the UFH panel and the finished floor, this helps to minimise expansion noises.

Tiling, Thin laminates or carpets:
We would recommend a 12mm T&G chipboard or interlocking ply intermediate layer is laid before the tiling or laying of carpets. As an alternative a 10mm + Cement based board can be used to increase the output on the floor. We also recommend either a 2mm min cellfoam or heavy gauge paper is laid in-between the UFH panel and the finished floor, this helps to minimise expansion noises. It is recommend not to have a carpet with a value exceed (including underlay of 2.5 Tog)

System output:

Table 3

		Pipe pitch, Vz [mm]																							
		200 - 15mm and 16mm O/D (HEP400)								200 - 20mm O/D (HEP 400/411)								300 - 20mm O/D (HEP 400)							
		Pipe requirement, L [m/m²]																							
		5								5								3.4							
Mean water temperature	Design room temperature	Floor covering resistance, $R_{\lambda,B}$ [m² K/W]																							
		0.01		0.05		0.1		0.15		0.01		0.05		0.1		0.15		0.01		0.05		0.1		0.15	
		1. Heat emission, q								2. Average floor surface temperature, AFST															
MWT °C	Rt °C	1 W/m²	2 °C	1 W/m²	2 °C	1 W/m²	2 °C	1 W/m²	2 °C	1 W/m²	2 °C	1 W/m²	2 °C	1 W/m²	2 °C	1 W/m²	2 °C	1 W/m²	2 °C	1 W/m²	2 °C	1 W/m²	2 °C	1 W/m²	2 °C
35	16	48.4	20.7	43.9	20.3	39.3	19.9	35.6	19.5	49.4	20.7	44.7	20.3	39.9	19.9	36.1	19.6	47.7	20.6	43.3	20.2	38.8	19.8	35.2	19.5
	18	43.2	22.2	39.2	21.8	35.1	21.5	31.8	21.2	44.1	22.3	39.9	21.9	35.7	21.5	32.3	21.2	42.6	22.1	38.7	21.8	34.7	21.4	31.4	21.1
	20	**38.1**	**23.7**	**34.5**	**23.4**	**30.9**	**23.1**	**28.0**	**22.8**	**38.9**	**23.8**	**35.2**	**23.5**	**31.4**	**23.1**	**28.4**	**22.9**	**37.5**	**23.7**	**34.1**	**23.4**	**30.5**	**23.1**	**27.7**	**22.8**
	22	32.9	25.3	29.8	25.0	26.7	24.7	24.2	24.5	33.6	25.3	30.4	25.0	27.1	24.7	24.5	24.5	32.4	25.2	29.4	25.0	26.4	24.7	23.9	24.4
	24	27.7	26.8	25.1	26.6	22.5	26.3	20.4	26.1	28.3	26.9	25.6	26.6	22.8	26.3	20.7	26.1	27.3	26.8	24.8	26.5	22.2	26.3	20.1	26.1
40	16	61.3	21.8	55.5	21.3	49.7	20.8	45.0	20.4	62.5	21.9	56.6	21.4	50.6	20.8	45.7	20.4	60.4	21.7	54.8	21.2	49.1	20.7	44.5	20.3
	18	56.1	23.3	50.9	22.9	45.6	22.4	41.2	22.0	57.3	23.4	51.8	22.9	46.3	22.5	41.9	22.1	55.3	23.3	50.2	22.8	45.0	22.4	40.8	22.0
	20	**51.0**	**24.9**	**46.2**	**24.5**	**41.4**	**24.0**	**37.5**	**23.7**	**52.0**	**25.0**	**47.1**	**24.5**	**42.1**	**24.1**	**38.0**	**23.7**	**50.2**	**24.8**	**45.6**	**24.4**	**40.9**	**24.0**	**37.1**	**23.7**
	22	45.8	26.4	41.5	26.0	37.2	25.7	33.7	25.3	46.8	26.5	42.3	26.1	37.8	25.7	34.2	25.4	45.2	26.4	41.0	26.0	36.8	25.6	33.3	25.3
	24	40.7	28.0	36.9	27.6	33.0	27.3	29.9	27.0	41.5	28.0	37.5	27.7	33.5	27.3	30.3	27.0	40.1	27.9	36.4	27.6	32.6	27.2	29.6	27.0
45	16	74.1	22.9	67.2	22.3	60.2	21.7	54.5	21.2	75.6	23.0	68.4	22.4	61.2	21.8	55.3	21.3	73.0	22.8	66.3	22.2	59.4	21.6	53.9	21.1
	18	69.0	24.4	62.5	23.9	56.0	23.3	50.7	22.9	70.4	24.5	63.7	24.0	56.9	23.4	51.4	22.9	68.0	24.3	61.7	23.8	55.3	23.3	50.2	22.8
	20	**63.8**	**26.0**	**57.9**	**25.5**	**51.8**	**24.9**	**46.9**	**24.5**	**65.2**	**26.1**	**59.0**	**25.6**	**52.7**	**25.0**	**47.6**	**24.6**	**62.9**	**25.9**	**57.1**	**25.4**	**51.2**	**24.9**	**46.4**	**24.5**
	22	58.7	27.5	53.2	27.1	47.7	26.6	43.1	26.2	59.9	27.6	54.2	27.2	48.4	26.7	43.8	26.2	57.8	27.5	52.5	27.0	47.1	26.5	42.7	26.2
	24	53.5	29.1	48.6	28.7	43.5	28.2	39.4	27.9	54.7	29.2	49.5	28.7	44.2	28.3	39.9	27.9	52.8	29.0	47.9	28.6	43.0	28.2	38.9	27.8
50	16	87.0	23.9	78.8	23.2	70.6	22.6	63.9	22.0	88.7	24.1	80.3	23.4	71.7	22.7	64.9	22.1	85.7	23.8	77.8	23.2	69.7	22.5	63.2	21.9
	18	81.8	25.5	74.2	24.9	66.4	24.2	60.1	23.7	83.5	25.6	75.6	25.0	67.5	24.3	61.0	23.7	80.6	25.4	73.2	24.8	65.6	24.1	59.5	23.6
	20	**76.7**	**27.1**	**69.5**	**26.5**	**62.3**	**25.9**	**56.4**	**25.3**	**78.3**	**27.2**	**70.8**	**26.6**	**63.3**	**25.9**	**57.2**	**25.4**	**75.6**	**27.0**	**68.6**	**26.4**	**61.5**	**25.8**	**55.8**	**25.3**
	22	71.5	28.6	64.9	28.1	58.1	27.5	52.6	27.0	73.0	28.8	66.1	28.2	59.0	27.6	53.4	27.1	70.5	28.5	64.0	28.0	57.4	27.4	52.0	27.0
	24	66.4	30.2	60.2	29.7	53.9	29.1	48.8	28.7	67.8	30.3	61.3	29.8	54.8	29.2	49.5	28.7	65.4	30.1	59.4	29.6	53.3	29.1	48.3	28.6
55	16	99.8	25.0	90.5	24.2	81.0	23.4	73.3	22.8	101.8	25.1	92.1	24.4	82.3	23.5	74.4	22.9	98.3	24.9	89.3	24.1	80.0	23.3	72.6	22.7
	18	94.6	26.6	85.8	25.8	76.8	25.1	69.6	24.5	96.6	26.7	87.4	26.0	78.1	25.2	70.6	24.6	93.3	26.4	84.7	25.7	75.9	25.0	68.8	24.4
	20	**89.5**	**28.1**	**81.2**	**27.4**	**72.7**	**26.7**	**65.8**	**26.2**	**91.4**	**28.3**	**82.7**	**27.6**	**73.9**	**26.8**	**66.8**	**26.2**	**88.2**	**28.0**	**80.1**	**27.4**	**71.8**	**26.7**	**65.1**	**26.1**
	22	84.4	29.7	76.5	29.1	68.5	28.4	62.0	27.8	86.1	29.9	77.9	29.2	69.6	28.5	62.9	27.9	83.2	29.6	75.5	29.0	67.7	28.3	61.4	27.8
	24	79.2	31.3	71.9	30.7	64.3	30.0	58.2	29.5	80.9	31.4	73.2	30.8	65.4	30.1	59.1	29.6	78.1	31.2	70.9	30.6	63.6	30.0	57.6	29.5

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