Heat load table tacker system

[redacted] $R_{\lambda,B}$ = **0.15 m²K/W** [redacted]

Planning data				Mean heating water temperature [redacted] = 30°C			Mean heating water temperature [redacted] = 35°C			Mean heating water temperature [redacted] = 40°C			Mean heating water temperature [redacted] = 45°C		
Internal temperature	Laying distance VA	Pipe requirements l_R	Bedarf Tackernadeln T	Max. surface heat [redacted]	Mean floor temp. [redacted]	Max. heating circuit area AHK	Max. surface heat [redacted]	Mean floor temp. [redacted]	Max. heating circuit area AHK	Max. surface heat [redacted]	Mean floor temp. [redacted]	Max. heating circuit area AHK	Max. surface heat [redacted]	Mean floor temp. [redacted]	Max. heating circuit area AHK
	cm	m/m²	St/m²	W/m²	°C	m²	W/m²	°C	m²	W/m²	°C	m²	W/m²	°C	m²
ˋ= 15°C	10	10.0	20	47	19.5	16.3	62	20.8	13.6	78	22.2	11.8	93	23.5	10.5
	15	6.7	14	43	19.2	19.7	57	20.4	16.4	71	21.6	14.2	86	22.8	12.7
	20	5.0	10	39	18.8	22.9	52	20.0	19.1	65	21.1	16.5	78	22.2	14.7
	25	4.0	8	36	18.5	25.9	48	19.6	21.6	60	20.6	18.7	72	21.6	16.7
	30	3.3	7	33	18.3	28.9	44	19.3	24.0	55	20.2	20.9	66	21.2	18.6
ˋ= 18°C	10	10.0	20	37	21.7	18.2	53	23.0	14.7	68	24.4	12.6	84	25.7	11.1
	15	6.7	14	34	21.4	22.0	49	22.7	17.8	63	23.9	15.2	77	25.1	13.4
	20	5.0	10	31	21.1	25.5	44	22.3	20.6	58	23.4	17.6	71	24.6	15.5
	25	4.0	8	29	20.9	28.8	41	22.0	23.3	53	23.0	19.9	64	24.0	17.6
	30	3.3	7	26	20.7	32.0	37	21.7	25.9	48	22.6	22.1	59	23.6	19.5
ˋ= 20°C	10	10.0	20	31	23.1	19.9	47	24.5	15.7	62	25.8	13.2	78	27.2	11.5
	15	6.7	14	29	22.9	24.0	43	24.2	18.9	57	25.4	15.9	71	26.6	13.9
	20	5.0	10	26	22.7	27.7	39	23.8	21.9	52	25.0	18.4	65	26.1	16.1
	25	4.0	8	24	22.4	31.3	36	23.5	24.7	48	24.6	20.8	60	25.6	18.2
	30	3.3	7	22	22.3	34.6	33	23.3	27.4	44	24.3	23.1	55	25.2	20.2
ˋ= 22°C	10	10.0	20	25	24.5	22.0	40	26.0	16.8	56	27.3	13.9	72	28.6	12.0
	15	6.7	14	23	24.4	26.5	37	25.7	20.2	51	26.9	16.7	66	28.1	14.4
	20	5.0	10	21	24.2	30.5	34	25.4	23.3	47	26.5	19.3	60	27.7	16.7
	25	4.0	8	19	24.0	34.3	31	25.1	26.3	43	26.2	21.8	55	27.2	18.9
	30	3.3	7	18	23.9	37.9	29	24.9	29.2	40	25.9	24.2	50	26.8	21.0
ˋ= 24°C	10	10.0	20	19	26.0	24.8	34	27.4	18.1	50	28.8	14.6	65	30.1	12.5
	15	6.7	14	17	25.8	29.7	31	27.1	21.7	46	28.4	17.6	60	29.7	15.1
	20	5.0	10	16	25.7	34.2	29	26.9	25.1	42	28.1	20.4	55	29.2	17.4
	25	4.0	8	14	25.5	38.3	26	26.7	28.2	38	27.8	23.0	50	28.8	19.7
	30	3.3	7	13	25.4	40.0	24	26.5	31.2	35	27.5	25.5	46	28.5	21.8

θ Floor temperature – [redacted] internal temperature > 9 K, or θ_{FB} > 29°C

Test report no. HB00P065, [redacted]

[redacted]

Heat load table knobbed board system 14

Temperature difference 7.5 K; Δp = 250 hPa; thermal resistance of the floor covering $R_{[redacted]B}$ = **0.015 m²K/W** [redacted]

Planning data			Mean heating water temperature $\theta_{H\mu}$ = 30°C			Mean heating water temperature [redacted] = 35°C			Mean heating water temperature $\theta_{H\mu}$ = 40°C			Mean heating water temperature [redacted] = 45°C		
Internal temperature	Laying distance VA	Pipe requirements l_R	Max. surface heat [redacted]	Mean floor temp. θ_{Fm}	Max. heating circuit area A_{HK}	Max. surface heat [redacted]	Mean floor temp. θ_{Fm}	Max. heating circuit area A_{HK}	Max. surface heat [redacted]	Mean floor temp. [redacted]	Max. heating circuit area A_{HK}	Max. surface heat [redacted]	Mean floor temp. [redacted]	Max. heating circuit area A_{HK}
	cm	m/m²	W/m²	°C	m²	W/m²	°C	m²	W/m²	°C	m²	W/m²	°C	m²
ˋ= 15°C	10	10.0	84	22.6	7.6	111	24.9	6.3	139	27.2	5.5	167	29.4	4.9
	15	6.7	72	21.7	9.5	96	23.7	7.9	120	25.6	6.9	144	27.5	6.1
	20	5.0	63	20.9	11.4	84	22.7	9.5	105	24.4	8.2	126	26.1	7.3
	25	4.0	55	20.2	13.3	73	21.8	11.0	92	23.3	9.6	110	24.8	8.5
	30	3.3	48	19.6	15.2	64	21.0	12.7	80	22.3	11.0	96	23.7	9.8
ˋ= 18°C	10	10.0	67	24.2	8.6	95	26.6	6.9	123	28.8	5.9	150	31.0	5.2
	15	6.7	58	23.5	10.7	82	25.5	8.7	106	27.5	7.4	130	29.4	6.5
	20	5.0	50	22.8	12.8	71	24.6	10.3	92	26.4	8.8	113	28.1	7.7
	25	4.0	44	22.3	14.9	62	23.9	12.0	81	25.4	10.2	99	26.9	9.0
	30	3.3	38	21.8	17.0	54	23.2	13.8	70	24.5	11.7	86	25.9	10.3
ˋ= 20°C	10	10.0	56	25.3	9.4	84	27.6	7.4	111	29.9	6.2	139	32.2	5.4
	15	6.7	48	24.6	11.8	72	26.7	9.3	96	28.7	7.8	120	30.6	6.8
	20	5.0	42	24.1	14.1	63	25.9	11.0	84	27.7	9.2	105	29.4	8.1
	25	4.0	37	23.6	16.3	55	25.2	12.8	73	26.8	10.8	92	28.3	9.4
	30	3.3	32	23.2	18.6	48	24.6	14.6	64	26.0	12.3	80	27.3	10.7
ˋ= 22°C	10	10.0	45	26.3	10.6	72	28.7	8.0	100	31.0	6.5	128	33.3	5.6
	15	6.7	38	25.8	13.2	62	27.9	10.0	86	29.9	8.2	111	31.9	7.1
	20	5.0	34	25.3	15.7	55	27.2	11.9	76	29.0	9.8	97	30.7	8.4
	25	4.0	29	25.0	18.1	48	26.6	13.7	66	28.2	11.3	84	29.7	9.8
	30	3.3	26	24.6	20.6	42	26.1	15.7	58	27.4	13.0	74	28.8	11.2
ˋ= 24°C	10	10.0	33	27.3	12.2	61	29.8	8.7	89	32.1	7.0	117	34.4	5.9
	15	6.7	29	26.9	15.2	53	29.0	10.8	77	31.1	8.7	101	33.1	7.4
	20	5.0	25	26.6	17.9	46	28.5	12.9	67	30.3	10.4	88	32.0	8.8
	25	4.0	22	26.3	20.6	40	27.9	14.9	59	29.5	12.0	77	31.1	10.2
	30	3.3	19	26.0	23.3	35	27.5	16.9	51	28.9	13.7	67	30.3	11.7

θ Floor temperature – [redacted] internal temperature > 9 K, or θ_{FB} > 29°C for bathrooms θ_{FB} > 33°C

PRINETO