Philips luminous textile with **kvadrat soft cells**

Specifications sheet luminous textile panel

PHILIPS

Contents

1. Specifications luminous textile panel

General characteristics
- Finish — Kvadrat textiles, *see § 1.1*
- Usage environment — Indoor only

Mechanical characteristics
- Width — From 0.72 to 1.20 m, *see § 1.3*
- Height — From 0.72 to 6.48 m, *see § 1.3*
- Thickness — 127 mm, including mounting elements
- Mounting — Wall (portrait or landscape), ceiling mount, surface or recessed, *see § 2*)
- Weight per panel — *See § 1.4*

Electrical characteristics
- Input voltage — 100 - 240 V
- Input frequency — 50 - 60 Hz
- Input power max* — 55 W per m^2 (5.1 W per ft^2)

Optical characteristics
- Luminous flux max — 500 lumen for 1 m^2 (46 lumen per ft^2)
- Luminance max — 170 cd/m^2 (16 cd/ft^2)

- Light output and Ambient contrast ratio values depend on textile finish type, *see § 1.1*

Controls
- Content playback system — Integrated on-board playback system, see Content Manager software
- Scalability — Unlimited panels
- Control webpage — play, stop, next, prevous, album and playlist selection, scheduling, manuals, apps and administration section
- Remote Control (optional) — play, stop, next, previous
- Scheduling — Per minute, recurring events, multiple events
- System integration (triggering) — Default start, stop, previous, next etc. using HTTP GET, TCP commands, Philips Dynalite Dynet protocol, or Philips Color Kinetics (remote) ethernet keypad **
- System integration (external players) — 3rd party control system compatible via Art-Net and KiNET (Philips Color Kinetics) protocol **

Content software characteristics
- Content management — Content Manager software
- Platform — Microsoft Windows XP with Service Pack (SP2) or Windows 7 with Service Pack 1, Microsoft .NET 4.0 or later
- Input video format — Windows Media Video (.wmv)
- Frame rate max — 50 fps
- Number of colors — 16.8 M

Acoustic properties
- Weighted absorption — α_w = 0.45 (LM)
- EN ISO 11654 rating — Class D, *see § 3*

Operating conditions:
- Operating temperature — 5 - 35 °C (41 - 95 °F)
- Relative humidity — max. 95 % non-condensing

Fire safety
- EN 13501-2 Euroclass — B-s2,d0, *see § 1.2*
- UL723/ASTM E84/NFPA 255 — Class A

Approvals
- CE, UL, CCC, GOST-R marking

* The actual power consumption depends on the content played

** For more information please see the system integration manual on *http://www.largeluminoussurfaces.com/content/downloads-luminous-textile*

1.1. Textiles

The luminous textile panels are covered with Kvadrat textiles.

Kvadrat holds a leading position in the European market of design-textiles supplying renowned architects, designers and furniture manufacturers throughout the world for use in upholstery and curtains.

To get more information about the textile please visit: *http://www.largeluminoussurfaces.com/textile* click on Fabric to select the textile type.

Type	Color	Luminance[1] [cd/m^2]	Ambient contrast class[2]
Ginger	101	150	B
	121	60	B
	141	60	B
	201	110	B
	221	80	B
	401	120	B
	601	100	B
Onyx 2	104	170	B
	214	170	B
	334	80	A
Onyx 4	147	90	B
Onyx 5	103	160	B
	163	70	B
Sweet Hope	117	100	B
	137	50	B
	157	40	B
	197	30	A
	397	20	A
Toto	102	120	B
	122	30	C
	132	20	C
	202	110	B
	702	60	C
	752	15	C
	802	20	C
	852	10	C
Kinnasand Paint	099	30	A

[1] Luminance: This is a measure for how intense a surface radiates in a particular direction and angle.

[2] Ambient contrast class: This class measures how well content played on the luminous textile panel remains visible in the presence of ambient lighting, class A has the highest contrast.

1.2. Fire safety

The luminous textile panels are tested and classified (Euroclass system) with respect to their fire separation performance and smoke tightness. Classification: B-s2,d0

A1		
A2-s1,d0	A2-s1,d1	A2-s1,d2
A2-s2,d0	A2-s2,d1	A2-s2,d2
A2-s3,d0	A2-s3,d1	A2-s3,d2
B-s1,d0	B-s1,d1	B-s1,d2
B-s2,d0	B-s2,d1	B-s2,d2
B-s3,d0	B-s3,d1	B-s3,d2
C-s1,d0	C-s1,d1	C-s1,d2
C-s2,d0	C-s2,d1	C-s2,d2
C-s3,d0	C-s3,d1	C-s3,d2
D-s1,d0	D-s1,d1	D-s1,d2
D-s2,d0	D-s2,d1	D-s2,d2
D-s3,d0	D-s3,d1	D-s3,d2
E		
E-d2		
F	according to EN 13501-2	

Indicative performance descriptions and fire scenarios for Euroclasses:

Class	Performance description
A1	No contribution to fire
A2	No contribution to fire
B	**Very limited contribution to fire**
C	Limited contribution to fire
D	Acceptable contribution to fire
E	Acceptable contribution to fire
F	No performance requirements

Smoke Class	
s1	Little or no smoke generation
s2	**Medium smoke generation**
s3	Heavy smoke generation
Flaming droplets Class	
d0	**No droplets within 600 seconds**
d1	Droplet form within 600 seconds but do not burn for more than 10 seconds
d2	Not as d0 or d1

1.3. Available sizes

Width [m]	Length [m]								
0.72	0.72	0.78	0.84	0.9	0.96	1.02	1.08	1.14	1.2
0.78	1.26	1.32	1.38	1.44	1.5	1.56	1.62	1.68	1.74
0.84	1.8	1.86	1.92	1.98	2.04	2.1	2.16	2.22	2.28
0.9	2.34	2.4	2.46	2.52	2.58	2.64	2.7	2.76	2.82
0.96	2.88	2.94	3	3.06	3.12	3.18	3.24	3.3	3.36
1.02	3.42	3.48	3.54	3.6	3.66	3.72	3.78	3.84	3.9
1.08	3.96	4.02	4.08	4.14	4.2	4.26	4.32	4.38	4.44
1.14	4.5	4.56	4.62	4.68	4.74	4.8	4.86	4.92	4.98
1.2	5.04	5.1	5.16	5.22	5.28	5.34	5.4	5.46	5.52
	5.58	5.64	5.7	5.76	5.82	5.88	5.94	6	6.06
	6.12	6.18	6.24	6.3	6.36	6.42	6.48		

Width [inches]	Length [inches]								
28" 11/32	28" 11/32	30" 23/32	33" 2/32	35" 14/32	37" 25/32	40" 5/32	42" 17/32	44" 28/32	47" 8/32
30" 23/32	49" 19/32	51" 31/32	54" 11/32	56" 22/32	59" 2/32	61" 13/32	63" 25/32	66" 5/32	68" 16/32
33" 2/32	70" 28/32	73" 7/32	75" 19/32	77" 30/32	80" 10/32	82" 22/32	85" 1/32	87" 13/32	89" 24/32
35" 14/32	92" 4/32	94" 16/32	96" 27/32	99" 7/32	101" 18/32	103" 30/32	106" 10/32	108" 21/32	111" 1/32
37" 25/32	113" 12/32	115" 24/32	118" 4/32	120" 15/32	122" 27/32	125" 6/32	127" 18/32	129" 29/32	132" 9/32
40" 5/32	134" 21/32	137" 0/32	139" 12/32	141" 23/32	144" 3/32	146" 15/32	148" 26/32	151" 6/32	153" 17/32
42" 17/32	155" 29/32	158" 9/32	160" 20/32	162" 32/32	165" 11/32	167" 23/32	170" 3/32	172" 14/32	174" 26/32
44" 28/32	177" 5/32	179" 17/32	181" 28/32	184" 8/32	186" 20/32	188" 31/32	191" 11/32	193" 22/32	196" 2/32
47" 8/32	198" 14/32	200" 25/32	203" 5/32	205" 16/32	207" 28/32	210" 8/32	212" 19/32	214" 31/32	217" 10/32
	219" 22/32	222" 2/32	224" 13/32	226" 25/32	229" 4/32	231" 16/32	233" 27/32	236" 7/32	238" 19/32
	240" 30/32	243" 10/32	245" 21/32	248" 1/32	250" 13/32	252" 24/32	255" 4/32		

1.4. Weight

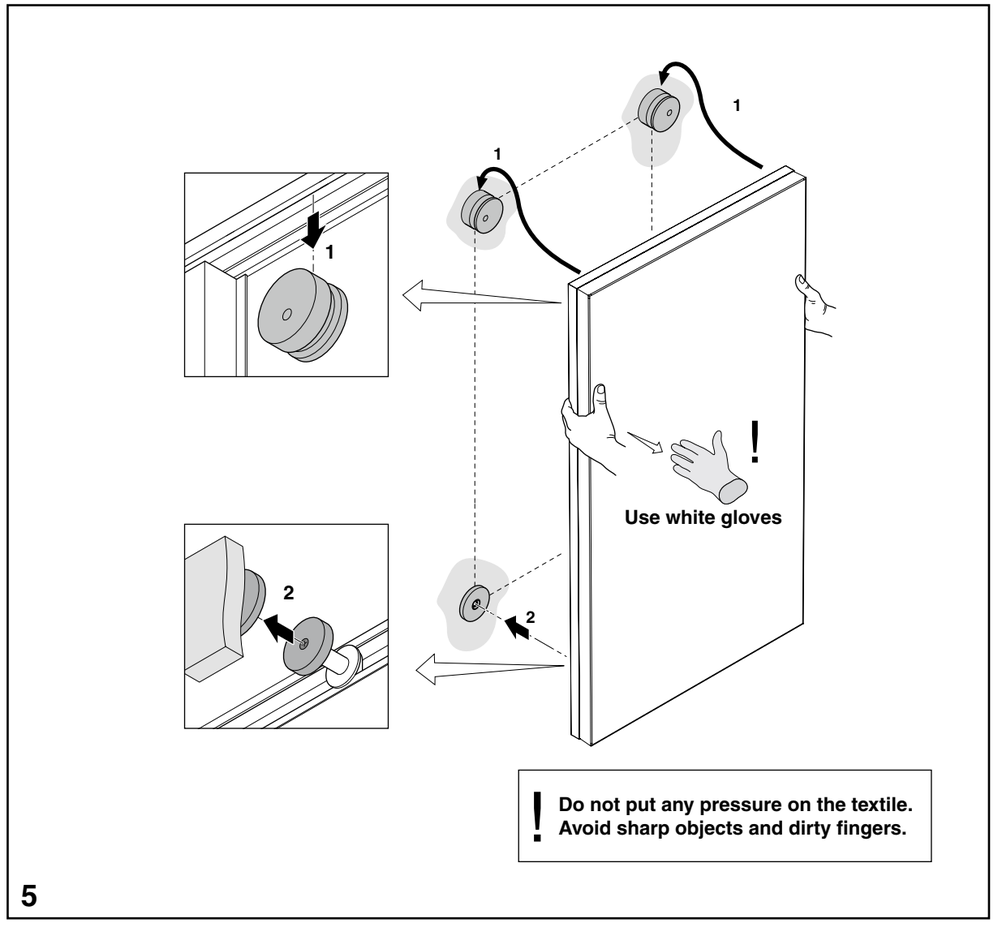
Weight of the luminous textile panel in kg (including mounting parts, excluding packaging).

Size [m]		Size [inches]		Weight	
Width	Length	Width	Length	kg	lbs
0.72	0.72	28" 11/32	28" 11/32	10	22
	1.62		63" 25/32	17	37
	2.7		85" 1/32	25	55
	3.96		155" 29/32	34	75
	4.5		177" 5/32	43	95
	5.52		217" 10/32	51	112
	6.48		255" 4/32	58	128
1.2	0.72	47" 8/32	28" 11/32	13	29
	1.62		63" 25/32	20	44
	2.7		85" 1/32	30	66
	3.96		155" 29/32	40	88
	4.5		177" 5/32	50	110
	5.52		217" 10/32	60	132
	6.48		255" 4/32	68	150

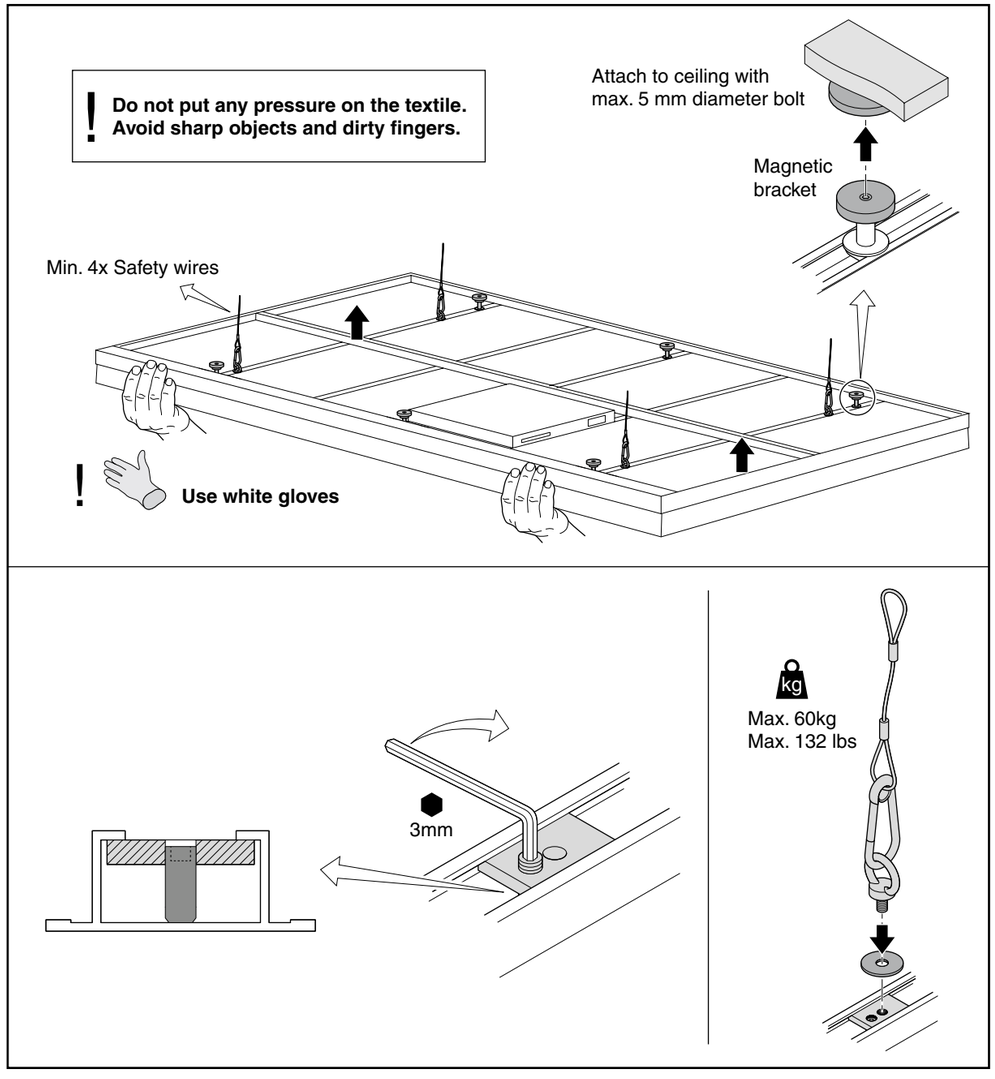
2. Mounting options

The quantity and position of mounting elements depends on the LTP height and orientation. For details, refer to the mech anical drawings also provided on our website *www.LLcontent.com*

2.1. Wall mounting (portrait or landscape)



2.2. Ceiling mounting

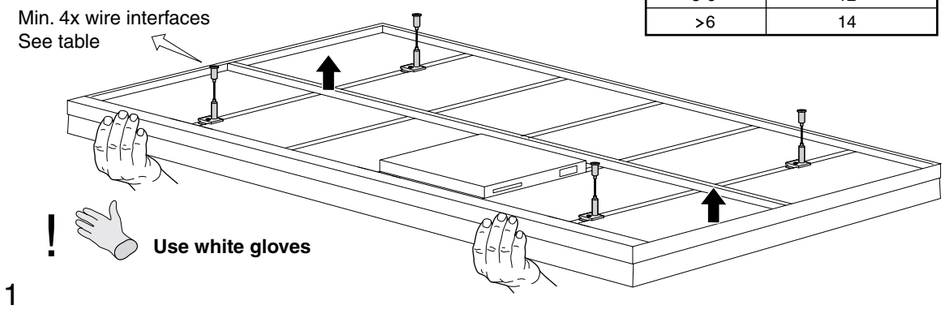


2.3. Pending ceiling mounting

Table

Pending ceiling mounting	
Length (m)	Min. wire interfaces
0-2	4
2-3	6
3-4	8
4-5	10
5-6	12
>6	14

! Do not put any pressure on the textile. Avoid sharp objects and dirty fingers.

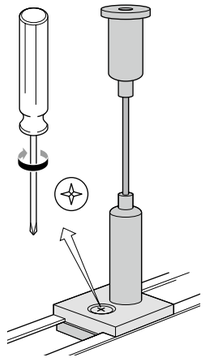


1

POSILOCK interface Karl Stahl

Suspended ceilings:
The ceiling mounting kit is compatible with the Carl Stahl POSILOCK suspended ceiling system.

For more information about the POSILOCK system: *www.carlstahl.com*

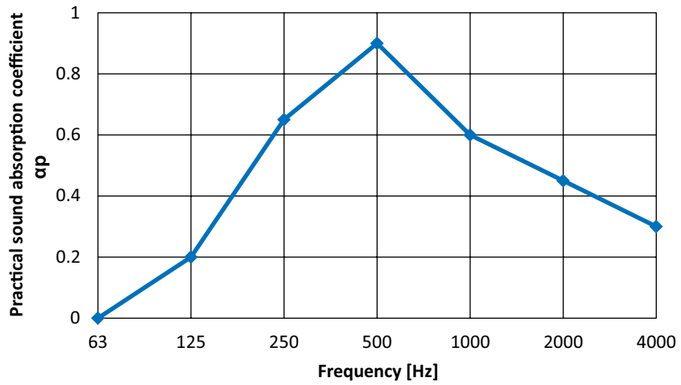


2

3. Acoustic absorption sheet

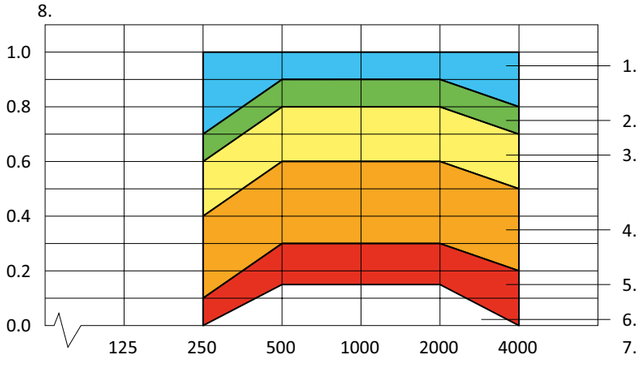
Measurement results of the practical sound absorption coefficient αp according to EN ISO 11654.

Luminous textile panel covered with textile type Toto



Frequency [Hz]	αp octave
125	0.20
250	0.65
500	0.90
1000	0.60
2000	0.45
4000	0.30

Classification of sound absorbers into sound absorption Classes A-E. (EN ISO 11654)



1. Absorption class A
2. Absorption class B
3. Absorption class C
4. Absorption class D
5. Absorption class E
6. Unclassified
7. Frequency Hz
8. αp Practical absorption coefficient

Luminous textile panels rated according to EN ISO 11654, sound absorption Class D.

Weighted sound absorption coefficient αw = 0.45 (LM)

4. Contact

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