



PEUTZ

Laboratory for Acoustics

*Determination of the sound absorption
(reverberation room method) of BuzziSpace
designs, manufacturer BuzziSpace*



4 Measurements

The products are installed for the laboratory test in the same manner as they are typically installed in practice;

- free-standing on the floor of the reverberation room
- free hanging from the ceiling of the reverberation room

For discrete absorbers like this particular case, the results are expressed as the equivalent sound absorption area per object A (m²).

4.1 Method

The tests were conducted in accordance with the provisions of the test method ISO 354 in the reverberation room of "Peutz bv" in Mook (the Netherlands) (see figure 1). The relevant data regarding the reverberation room are given in figure 3 of this report.

By means of reverberation measurements the reverberation time of the room is measured under two conditions:

- when the reverberation room is empty
- when the construction under test is inside the reverberation room

In general, once material is placed into the reverberation room a lower reverberation time will result.

The difference in reverberation times is a measure of the amount of absorption brought into the room.

Measurements and calculations were carried out in 1/3-octave bandwidth from 100 to 5000 Hz, according to the norms. Where applicable the octave values have been calculated from these 1/3-octave values.

From the reverberation measurements in the empty reverberation room the equivalent sound absorption A₁ is calculated (per frequency band) according to formula 1 and expressed in m²

$$A_1 = \frac{55,3 V}{c T_1} - 4 V m_1 \quad (1)$$

in which:

V = the volume of the reverberation room [m³]



$$c = 331 + 0,6t \quad (2)$$

in which:

t = the temperature; this formula is valid for temperatures between 15 and 30 °C [°C]

$$m = \frac{\alpha}{10 \log(e)} \quad (3)$$

in which:

α = "attenuation coefficient" according to ISO 9613-1

In the same manner the equivalent sound absorption A_2 for the room with the test specimen is calculated according to formula 4, also expressed in m^2

$$A_2 = \frac{55,3V}{cT_2} - 4Vm_2 \quad (4)$$

in which:

c and V have the same definition as in formula 1 and

T_2 = the reverberation time of the reverberation room with the test specimen placed inside [sec]

m_2 = "power attenuation coefficient" in the room with the test specimen placed inside, calculated according to formula 3 [m^{-1}]

The equivalent sound absorption A of the test specimen has been calculated according to formula 5 and is expressed in m^2

$$A = A_2 - A_1 \quad (5)$$

When the test specimen consists of one plane with an area between 10 and 12 m^2 the sound absorption coefficient α_s has to be calculated according to formula 6:

$$\alpha = \frac{A}{S} \quad (6)$$

in which:

S = the area of the test specimen [m^2]

4.2 Accuracy

The accuracy of the sound absorption as calculated can be expressed in terms of repeatability (tests within one laboratory) and reproducibility (between various laboratories). When:

- two tests are performed on identical test material
- within a short period of time
- by the same person or team
- using the same instrumentation
- under unchanged environmental conditions

the probability will be 95% that the difference between the two test results will be less than or equal to r .

In order to evaluate the repeatability r for the sound absorption measurements performed in the reverberation room of "Peutz bv" in Mook (the Netherlands) eight series of measurements have been carried out according to ISO 354:1985 annex C. From the results of those measurements the repeatability r has been calculated. It was found that for the frequency range from 100 to 200 Hz and at 5000 Hz the repeatability r is 0,21 as a maximum. For the frequency range 250 to 4000 Hz the repeatability r is 0,09 as a maximum.

4.3 Environmental conditions during the measurements

t4.1 Environmental conditions during the measurements

reverberation room		temperature	barometric pressure	relative humidity
		[°C]	[kPa]	[%]
empty	05-01-2017	15,6	103,1	56
	24-01-2017	15,3	102,7	50,3
With objects	05-01-2017	15,5 – 16,3	103,1 – 103,3	50,7 – 58,3
	24-01-2017	15,2 – 16,0	102,8 – 103,0	50,9 – 52,9

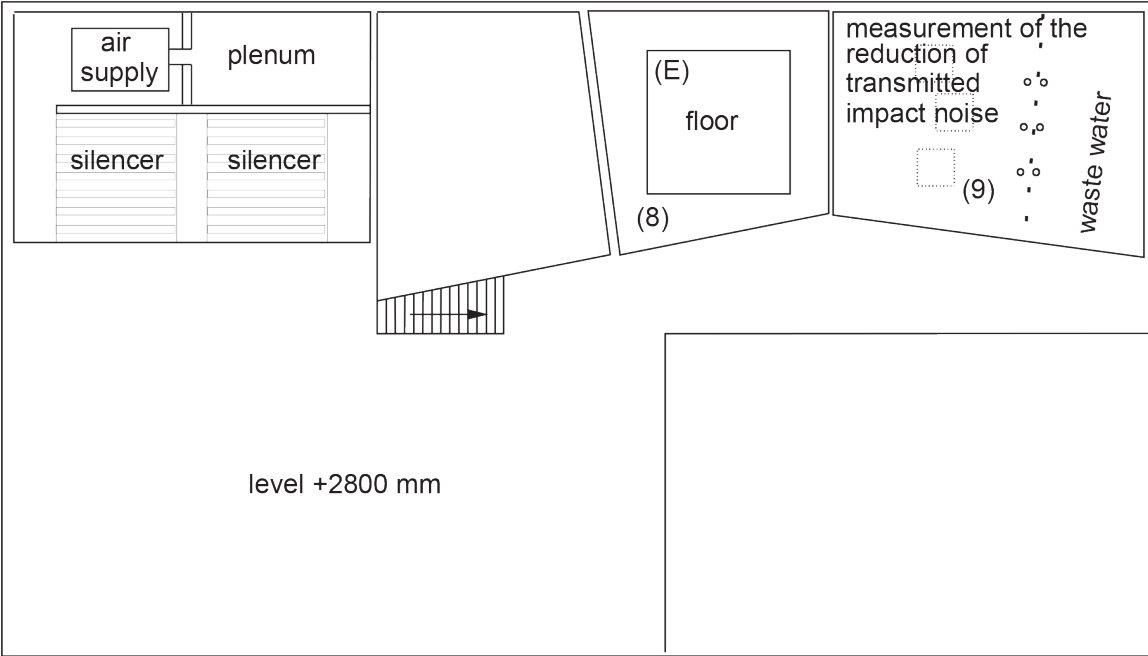
4.4 Results

The results of the measurements are given in table t4.2 up and including table t4.9 and in figure 4 to 20. The measurements were made in 1/3-octave bands. The results presented in octave-bands are the arithmetic average of the results of the three 1/3-octave bands belonging to that octaveband.

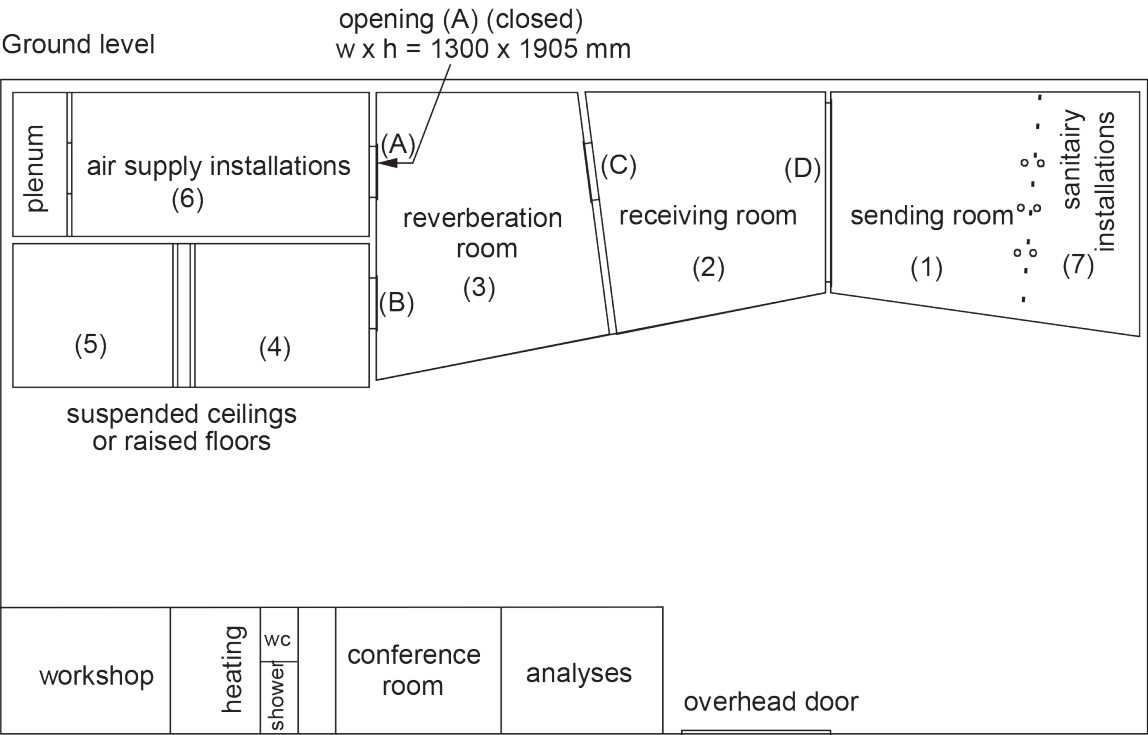
PEUTZ bv
Lindenlaan 41, NL-6584 AC MOLENHOEK (LB), THE NETHERLANDS

OVERVIEW

Story



Ground level



TEST OPENINGS (w x h in mm)

- (B) 1000 x 2200
- (C) 1500 x 1250
- (D) 4300 x 2800
- (E) 4000 x 4000

0 1 2 3 4 5 m
scale

figure 1

PEUTZ bv
Lindenlaan 41, 6584 AC MOLENHOEK (LB)

REVERBERATION ROOM

The reverberation room meets the requirements of ISO 354:2003.

additional data:

volume : 214 m³

total area S_t (walls, floor and ceiling) : 219 m²

diffusion: by the shape of the room and by adding 6 curved and 2 flat reflecting elements with a total area of approx. 13 m² a sufficient diffusion has been gained.

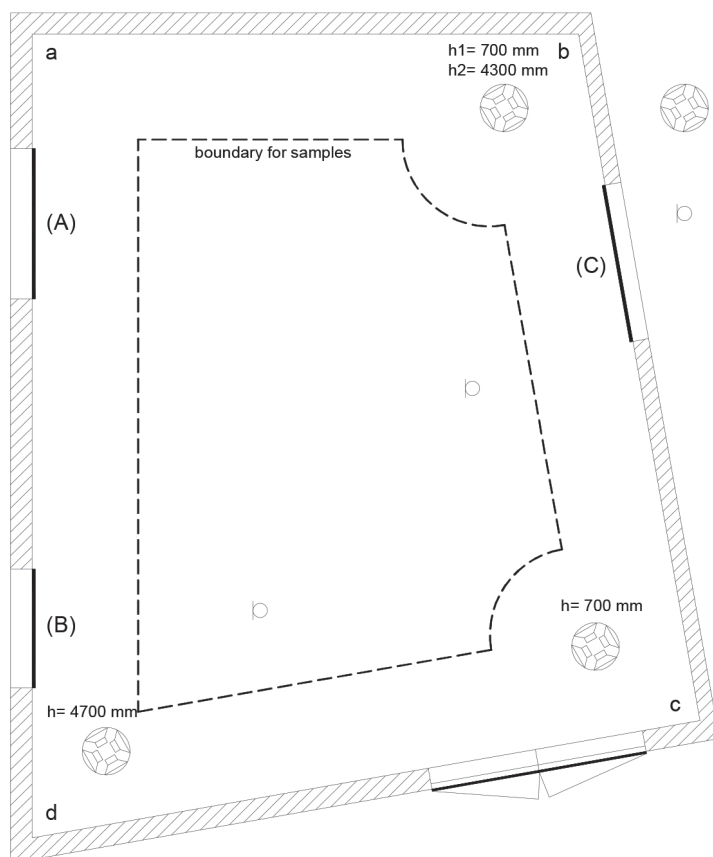
reverberation time of the empty reverberation room during measurements of 24-01-2017

frequency (1/1 oct.)	125	250	500	1000	2000	4000	Hz
reverberationtime	7,84	6,35	6,09	5,45	4,04	2,54	sec.

repeatability r (1/1 oct.) c.f. ISO 354:1985 annex C (see chapter 4.2 of this report).

r bij hoge α	0,13	0,04	0,04	0,02	0,02	0,08	-
r bij lage α	0,09	0,02	0,01	0,02	0,02	0,04	-

plan



loudspeaker (4x)

microphone (3x)

(closed) testopenings
(width x height in mm)
(A): 1300 x 1800
(B): 1000 x 2200
(C): 1500 x 1250

height at:
a: 5573 mm
b: 5102 mm
c: 5000 mm
d: 5580 mm

0 1 2 m

MEASUREMENT OF SOUND ABSORPTION IN A REVERBERATION ROOM

ACCORDING TO ISO 354:2003

principal: Buzzispace



Variant 4: BuzziWrap Desk

4 different dimensions tested at the same time

- 2900 mm x 730 mm (2,11 m²)
- 2800 mm x 630 mm (1,76 m²)
- 2000 mm x 530 mm (1,06 m²)
- 1670 mm x 630 mm (1,05 m²)

screens positioned directly on the laboratory floor

measurement results calculated on a two-sided surface



volume reverberation room: 214 m³

surface area sample: 11,96 m²

measured at: Peutz Laboratory for Acoustics

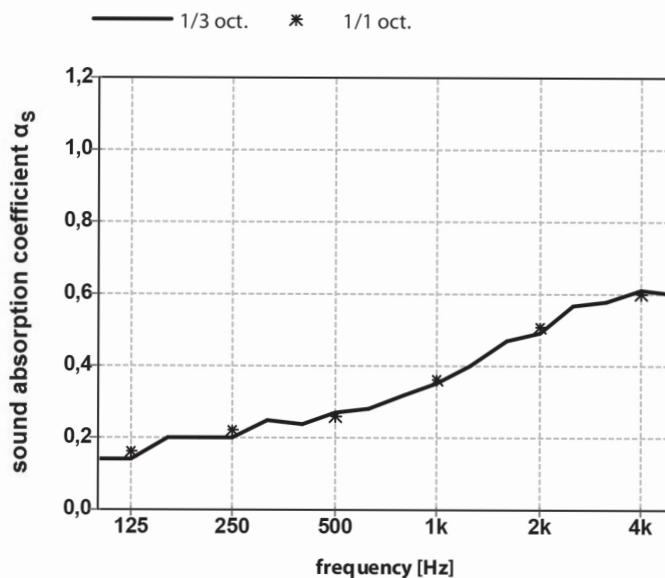
signal: broad-band noise

bandwidth: 1/3 octave

α_w (ISO 11654) = 0,35(H)

NRC (ASTM - C423) = 0,35

SAA (ASTM - C423) = 0,34



	0,14	0,20	0,24	0,32	0,47	0,58
1/3 oct.	0,14	0,20	0,27	0,35	0,49	0,61
	0,20	0,25	0,28	0,40	0,57	0,60
1/1 oct.	0,16	0,22	0,26	0,36	0,51	0,60

publication is permitted for the entire page only

report A 3470-1E-RA

figure 6



Declaration of Conformity

Brandname: BuzziSpace

Type Number: P0181

General Model Identification: BuzziWrap Desk

Harmful substances on product level

GREENGUARD

https://spot.ul.com/main-app/products/detail/5ec2a34255b0e833481a9f36?page_type=Products%20Catalog



Product Certified for low chemical emissions: UL.COM/GG UL 2818

San Francisco - Ordinance 211-17

Flame Retardant Chemicals in Upholstered Furniture

Harmful substances on component level

Felt

VOC & VOC substances

Assessment of the emission of volatile organic compounds

Result: A+

Ref. Test Report 17.06430.01

REACH

Registration, Evaluation, Authorisation and Restriction of Chemicals

Wood

California Air Resources Board
(CARB) Phase II

Result: (CARB) Phase II Pass & low formaldehyde

Cardboard

Restriction on Hazardous Substances

RoHS Directive

Fire Rating on component level

Felt

ASTM E84

Test for surface burning characteristics of building materials

Result: Class A

Ref. Test Report 102611356SAT-002B

UNE EN 13501-1

Fire test To construction products and building elements

Result: B-s1, d0

Ref. Test Report 14665E

CAL TB-117 (2013)

Flammability Standard Requirements for Upholstered Furniture

Wood

UNE EN 13501-1

Fire test To construction products and building elements

Result: D-s2, d0

CERTIFICATE OF COMPLIANCE



BuzziSpace NV

BuzziWrap Desk

173434-410

Certificate Number

15 May 2020 - 14 May 2025

Certificate Period

Certified

Status

UL 2818 - 2022 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings

Building materials are determined compliant in accordance with an Office environment with an air change of 0.68 hr^{-1} and a loading of 11.10 m^2 .

Products tested in accordance with UL 2821 test method to show compliance to emission limits in UL 2818, Section 7.1.



UL investigated representative samples of the identified Product(s) to the identified Standard(s) or other requirements in accordance with the agreements and any applicable program service terms in place between UL and the Certificate Holder (collectively "Agreement"). The Certificate Holder is authorized to use the UL Mark for the identified Product(s) manufactured at the production site(s) covered by the UL Test Report, in accordance with the terms of the Agreement. This Certificate is valid for the identified dates unless there is non-compliance with the Agreement.



GREENGUARD Certification Criteria for Individual Office Furniture Products

Criteria	CAS Number	Maximum Allowable Emission Factor		Units
		Open Plan	Private Office	
TVOC _(A)	-	345	694	µg/m ² *hr
Formaldehyde	50-00-0	42.3	85.1	µg/m ² *hr
Total Aldehydes _(B)	-	2.8	5.7	µmol/m ² *hr
4-Phenylcyclohexene	4994-16-5	4.5	9.0	µg/m ² *hr
Individual VOCs _(C)	-	1/10th TLV	1/10th TLV	-

- (A) Defined to be the total response of measured VOCs falling within the C₆ – C₁₆ range, with responses calibrated to a toluene surrogate.
- (B) The sum of all measured normal aldehydes from formaldehyde through nonanal, plus benzaldehyde, individually calibrated to a compound specific standard. Heptanal through nonanal are measured via TD/GC/MS analysis and the remaining aldehydes are measured using HPLC/UV analysis.
- (C) Allowable levels for chemicals not listed are derived from 1/10th of the Threshold Limit Value (TLV) industrial work place standard (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, and Cincinnati, OH 45211-4438).



UL investigated representative samples of the identified Product(s) to the identified Standard(s) or other requirements in accordance with the agreements and any applicable program service terms in place between UL and the Certificate Holder (collectively "Agreement"). The Certificate Holder is authorized to use the UL Mark for the identified Product(s) manufactured at the production site(s) covered by the UL Test Report, in accordance with the terms of the Agreement. This Certificate is valid for the identified dates unless there is non-compliance with the Agreement.



BuzziWrap Desk

Product Specification Sheet

This document contains technical
information about the BuzziWrap Desk



www.buzzi.space



Acoustic desk panel for existing desks

BuzziWrap Desk is a shield for noise and visual distractions. As it wraps around your desk, it converts a plain worktop into a cocoon while hiding the typical cable clutter on the backside of your table. It's easy to install, and thanks to its various sizes and fix positions, it can be attached to almost any existing desk. In combination with the colorful palette of BuzziFelt, it will brighten up your day in silence.

Design by BuzziSpace Studio

General



BuzziWrap Desk

Cover: BuzziFelt



Core: honeycomb cardboard + poplar wood

Profile: plastic

Fix: powder coated metal black (RAL 9005) or white (RAL 9010)



Dry use



Flat Packed

Desk Mounted



Bicolor

Fix L, L Plus, XL, XXL

Certifications



Acoustics



Absorption



Diffusion



Mid tone



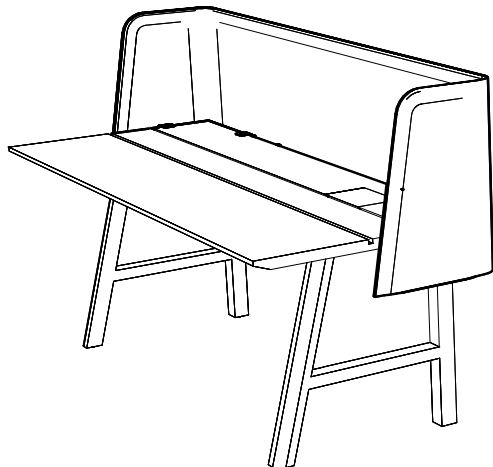
High tone

Content

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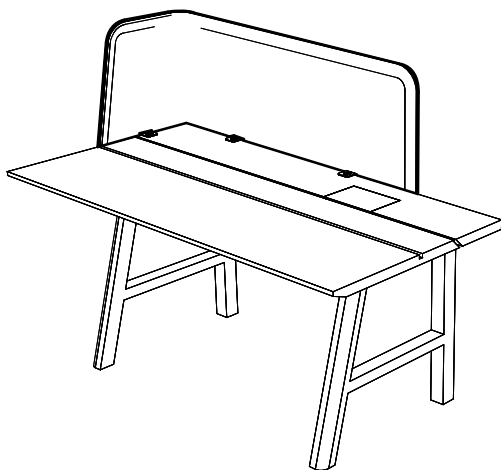
Configurations

BuzziWrap Desk Full



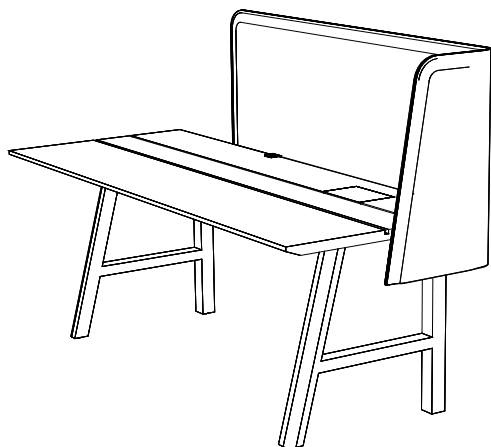
- 🌲 Cover: BuzziFelt
Core: honeycomb cardboard + poplar wood
Profile: plastic
Fix: powder coated metal black (RAL 9005) or white (RAL 9010)
- L: Front: 100 cm ≤ 200 cm
39.37" ≤ 78.74"
- W: Side: 40 cm or 60 cm (measured at worktop level)
15.75" or 23.62"
- ✂ H: 52,5 cm, 62,5 cm or 72,5 cm
20.67", 24.61" or 28.54"
- D: 3,5 cm
1.38"
- ... Bicolor
Fix L, L Plus, XL, XXL

BuzziWrap Desk Left



- 🌲 Cover: BuzziFelt
Core: honeycomb cardboard + poplar wood
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1.38"
- ... Bicolor
Fix L, L Plus, XL, XXL

BuzziWrap Desk Right



Cover: BuzziFelt
Core: honeycomb cardboard + poplar wood
Profile: plastic
Fix: powder coated metal black (RAL 9005) or white (RAL 9010)

L: Front: 100 cm ≤ 200 cm
39.37" ≤ 78.74"

W: Side: 40 cm or 60 cm (measured at worktop level)
15.75" or 23.62"



H: 52,5 cm, 62,5 cm or 72,5 cm
20.67", 24.61" or 28.54"

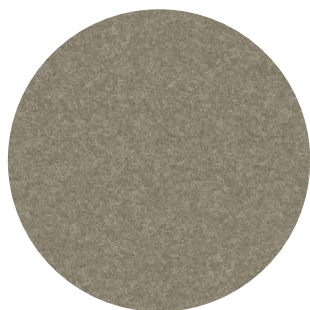
D: 3,5 cm
1.38"



Bicolor
Fix L, L Plus, XL, XXL

Fabrics

Felt



Composition 100% Recycled PE.T. Felt, latex backing

Weight 1.000 g/m2 | 29.49 oz/yd2

Abrasion resistance >7.000 Martindale

Flammability EU: EN 13501.1 + A1/2009 Class B-s1,d0

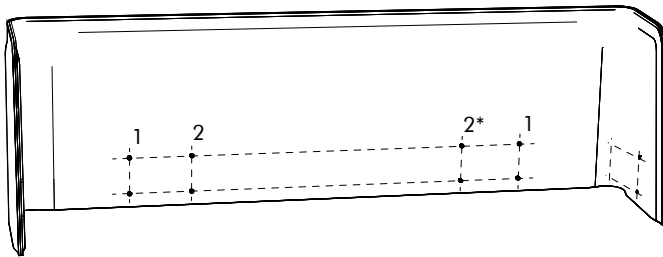
USA: ASTM E84 Class A certified

Fastness to light USA 5



Composition

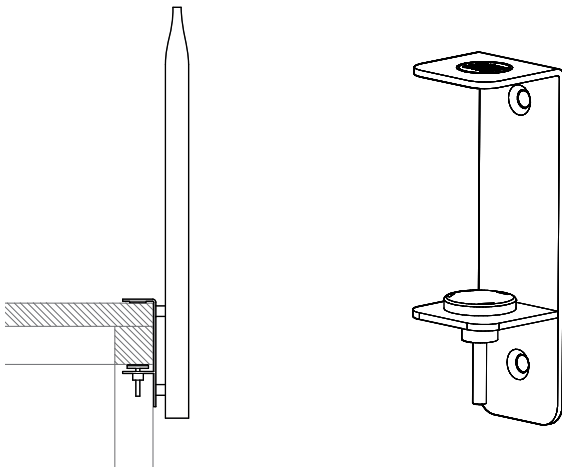
Mounting positions



There are two different fix mounting positions provided on the front side to accommodate your worktop.

* not for size XS

Fix



BuzziFix is available in powder coated metal Black (RAL 9005) or White (RAL 9010)

Desk Full: 4 Fixes

Desk Left | Right: 3 Fixes

L: Worktop: 12 > 27 mm
0.47" > 1.06"

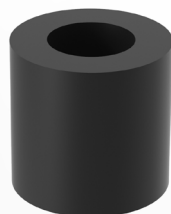
L Plus: Worktop: 18 > 43 mm
0.71" > 1.69"

XL: Worktop: 28 > 57 mm
1.10" > 2.24"

XXL: Worktop: 72 mm > 98 mm
2.83" > 3.86"

(XXL applicable for PicNic desk front side)

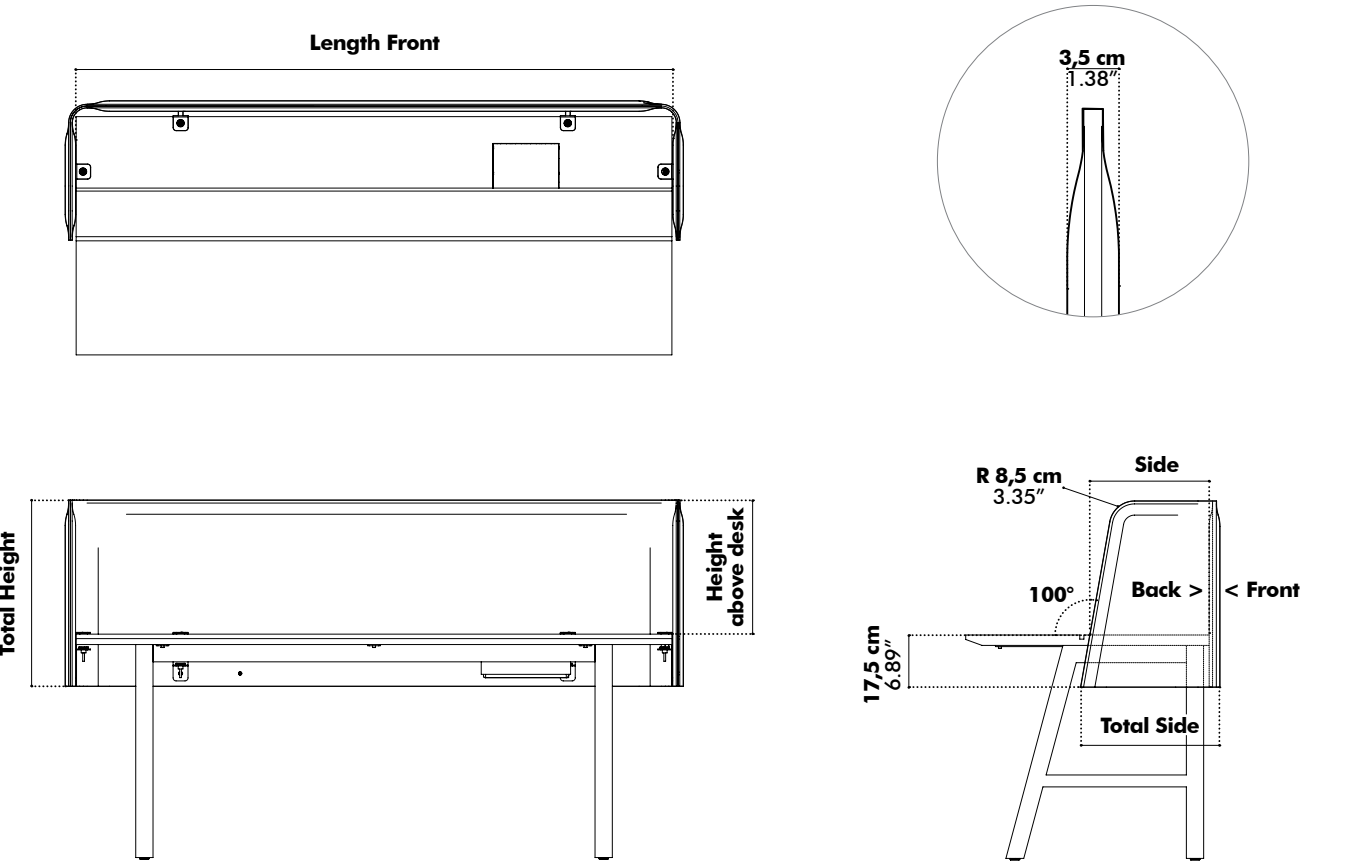
Distance holder



Additional distance holders can be mounted at the front side to provide space for electrical cables etc.
(L 1,5 cm Ø 1,5 | L 0.59" Ø 0.59")

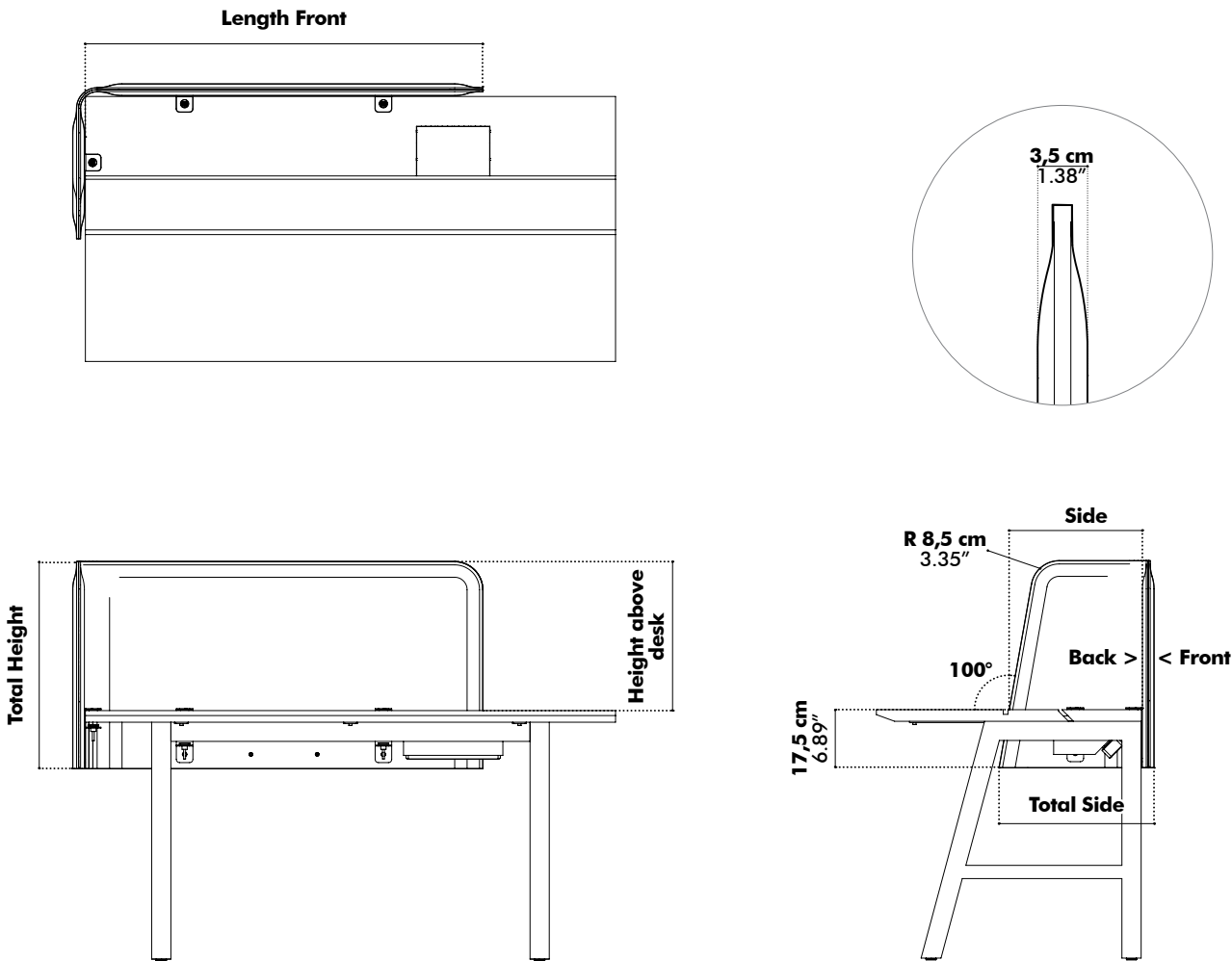
Dimensions

BuzziWrap Desk Full



Height above desk Total height	Side Total Side	Length Front XS ≤ 120 cm	Length Front S ≤ 140 cm	Length Front M ≤ 160 cm	Length Front L ≤ 180 cm	Length Front XL ≤ 200 cm
35 cm 52,5 cm	40 cm 46,5 cm	6,65 kg	7,44 kg	8,21 kg	9,01 kg	9,81
	60 cm 66,5 cm	8,21 kg	9,22 kg	10,38 kg	11,69 kg	-
45 cm 62,5 cm	40 cm 46,5 cm	6,82 kg	7,63 kg	8,43 kg	9,25 kg	10,07 kg
	60 cm 66,5 cm	8,43 kg	9,47 kg	10,66 kg	12,01 kg	-
55 cm 72,5 cm	40 cm 46,5 cm	6,93 kg	7,76 kg	8,57 kg	9,41 kg	10,25 kg
	60 cm 66,5 cm	8,57 kg	9,64 kg	10,84 kg	12,22 kg	-
Height above desk Total height	Side Total Side	Length Front XS ≤ 47.24"	Length Front S ≤ 55.12"	Length Front M ≤ 62.99"	Length Front L ≤ 70.87"	Length Front XL ≤ 78.74"
13.78" 20.67"	15.75" 18.31"	14.66 lbs	16.40 lbs	18.10 lbs	19.86 lbs	21.63 lbs
	23.62" 26.18"	18.10 lbs	20.33 lbs	22.88 lbs	25.77 lbs	-
17.72" 24.61"	15.75" 18.31"	15.04 lbs	16.82 lbs	18.58 lbs	20.39 lbs	22.20 lbs
	23.62" 26.18"	18.58 lbs	20.88 lbs	23.50 lbs	24.48 lbs	-
21.65" 28.54"	15.75" 18.31"	15.28 lbs	17.11 lbs	18.89 lbs	20.75 lbs	22.60 lbs
	23.62" 26.18"	18.89 lbs	21.25 lbs	23.90 lbs	26.94 lbs	-

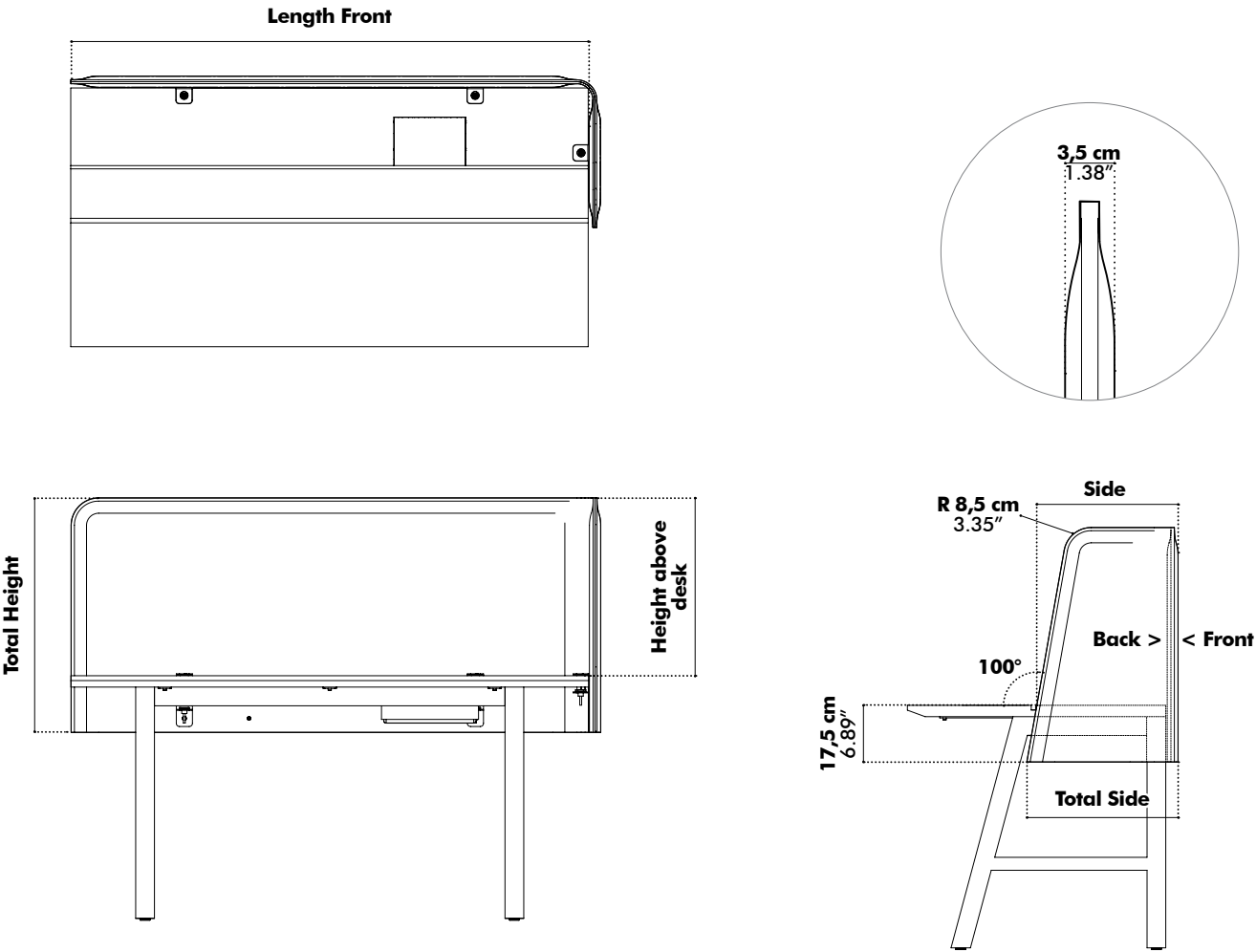
BuzziWrap Desk Left



Height above desk Total height	Side Total Side	Length Front XS ≤ 120 cm	Length Front S ≤ 140 cm	Length Front M ≤ 160 cm	Length Front L ≤ 180 cm	Length Front XL ≤ 200 cm
35 cm 52,5 cm	40 cm 46,5 cm	5,47 kg	5,94 kg	6,45 kg	7,02 kg	7,64 kg
	60 cm 66,5 cm	5,94 kg	6,45 kg	7,02 kg	7,64 kg	8,26 kg
45 cm 62,5 cm	40 cm 46,5 cm	5,70 kg	6,19 kg	6,73 kg	7,33 kg	7,98 kg
	60 cm 66,5 cm	6,19 kg	6,73 kg	7,33 kg	7,98 kg	8,63 kg
55 cm 72,5 cm	40 cm 46,5 cm	5,95 kg	6,46 kg	7,03 kg	7,65 kg	8,34 kg
	60 cm 66,5 cm	6,46 kg	7,03 kg	7,65 kg	8,34 kg	9,03 kg

Height above desk Total height	Side Total Side	Length Front XS ≤ 47.24"	Length Front S ≤ 55.12"	Length Front M ≤ 62.99"	Length Front L ≤ 70.87"	Length Front XL ≤ 78.74"
13.78" 20.67"	15.75" 18.31"	12.06 lbs	13.10 lbs	14.22 lbs	15.48 lbs	16.84 lbs
	23.62" 26.18"	13.10 lbs	14.22 lbs	15.48 lbs	16.84 lbs	18.21 lbs
17.72" 24.61"	15.75" 18.31"	12.57 lbs	13.65 lbs	14.84 lbs	16.16 lbs	17.59 lbs
	23.62" 26.18"	13.65 lbs	14.84 lbs	16.16 lbs	17.59 lbs	19.03 lbs
21.65" 28.54"	15.75" 18.31"	13.12 lbs	14.24 lbs	15.50 lbs	16.87 lbs	18.39 lbs
	23.62" 26.18"	14.24 lbs	15.50 lbs	16.87 lbs	18.39 lbs	19.91 lbs

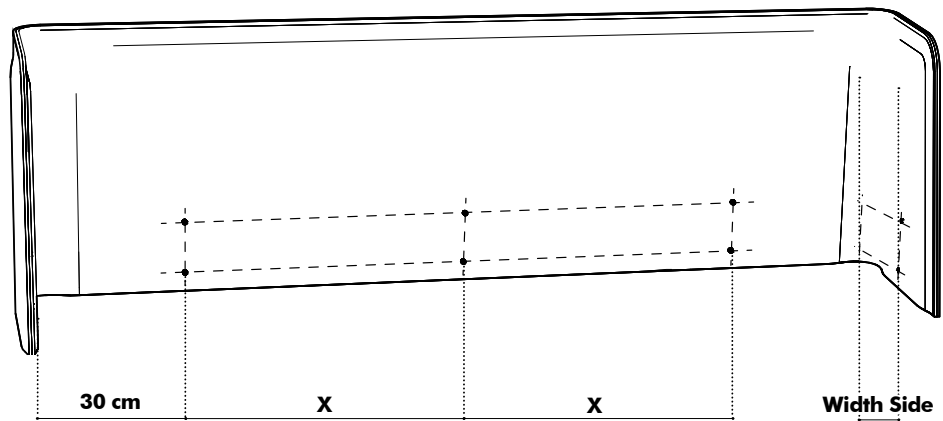
BuzziWrap Desk Right



Height above desk Total height	Side Total Side	Length Front XS ≤ 120 cm	Length Front S ≤ 140 cm	Length Front M ≤ 160 cm	Length Front L ≤ 180 cm	Length Front XL ≤ 200 cm
35 cm 52,5 cm	40 cm 46,5 cm	5,47 kg	5,94 kg	6,45 kg	7,02 kg	7,64 kg
	60 cm 66,5 cm	5,94 kg	6,45 kg	7,02 kg	7,64 kg	8,26 kg
45 cm 62,5 cm	40 cm 46,5 cm	5,70 kg	6,19 kg	6,73 kg	7,33 kg	7,98 kg
	60 cm 66,5 cm	6,19 kg	6,73 kg	7,33 kg	7,98 kg	8,63 kg
55 cm 72,5 cm	40 cm 46,5 cm	5,95 kg	6,46 kg	7,03 kg	7,65 kg	8,34 kg
	60 cm 66,5 cm	6,46 kg	7,03 kg	7,65 kg	8,34 kg	9,03 kg

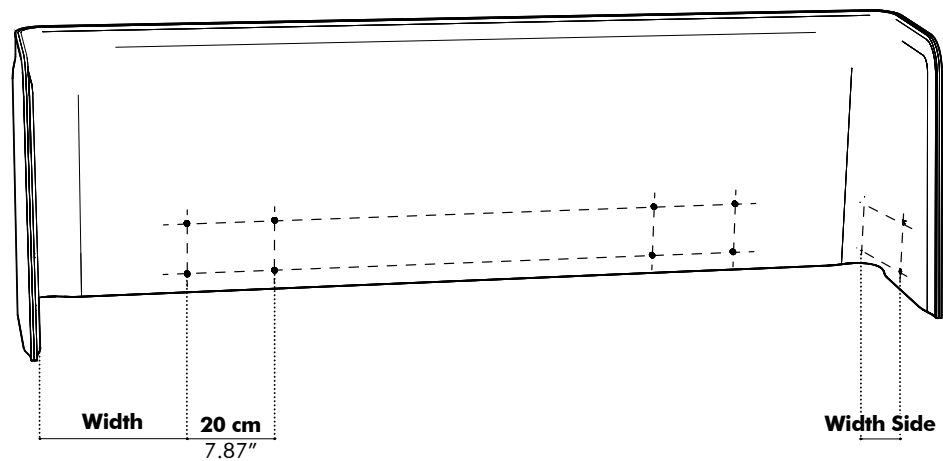
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17.72" 24.61"	15.75" 18.31"	12.57 lbs	13.65 lbs	14.84 lbs	16.16 lbs	17.59 lbs
	23.62" 26.18"	13.65 lbs	14.84 lbs	16.16 lbs	17.59 lbs	19.03 lbs
21.65" 28.54"	15.75" 18.31"	13.12 lbs	14.24 lbs	15.50 lbs	16.87 lbs	18.39 lbs
	23.62" 26.18"	14.24 lbs	15.50 lbs	16.87 lbs	18.39 lbs	19.91 lbs

Mounting positions XS



Side	40 cm 15.75"	60 cm 23.62"
Width Side	20 cm 7.87"	30 cm 11.81"

Mounting positions S | M | L | XL



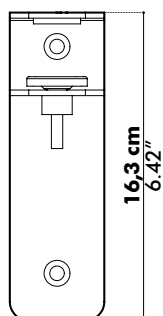
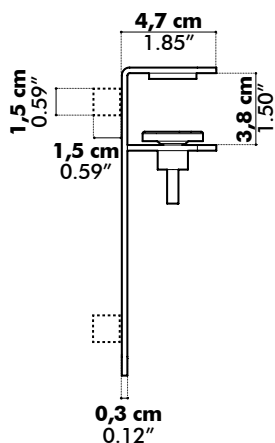
	S	M	L	XL
Width	30 cm 11.81"	35 cm 13.78"	35 cm 13.78"	35 cm 13.78"
Side	40 cm 15.75"	60 cm 23.62"		
Width Side	20 cm 7.87"	30 cm 11.81"		

Fixes

Attention: the worktop thickness might differ on the sides and the front of the desk. Please specify the proper sizes of the fixes for each side of the worktop.

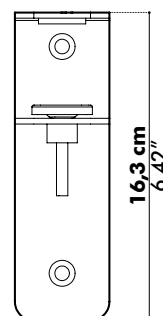
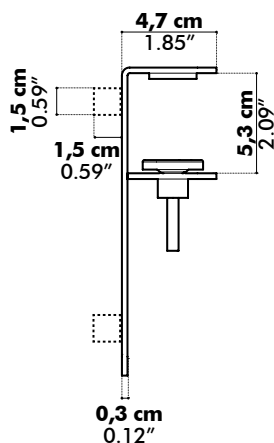
Fix L

Worktop: 12 > 27 mm | 0.47" > 1.06"



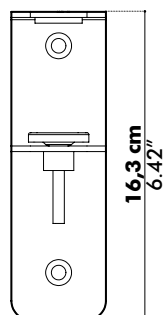
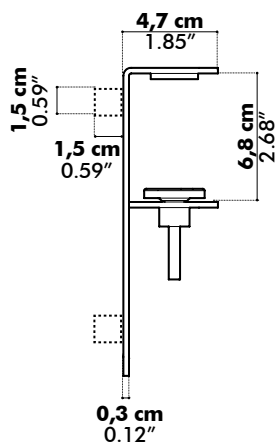
Fix L Plus

Worktop: 18 > 43 mm | 0.71" > 1.69"



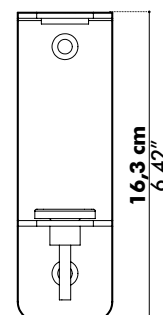
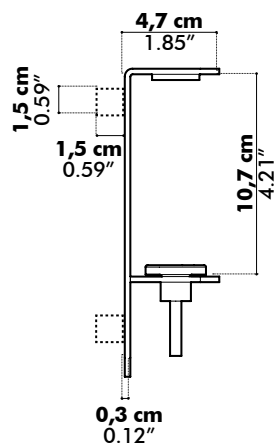
Fix XL

Worktop: 28 > 57 mm | 1.10" > 2.24"



Fix XXL

Worktop: 72 mm > 98 mm | 2.83" > 3.86"



Acoustics

BuzziWrap

Equivalent sound absorption area in m² per object

