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Configuration Guide

SEPTEMBER 2023



Introducing **Stackabl**, a tech solution that converts textile and manufacturing waste into bespoke, acoustic lighting.

America stands at a critical juncture. With a staggering 17 million tons of textile waste produced annually, the nation ranks as the second largest textile waste producer worldwide. Alarmingly, only 1% of these textiles are recycled, making textiles the 5th most common landfill occupant despite their high potential for reuse and recycling. The tide is turning, however, as legislation both in the U.S. and the EU tightens its grip on producers of textile products. A prime example is California's Extended Producer Responsibility Act, which mandates brands to shoulder a collective \$500 million to divert textile from waste streams.

In these challenging times, the question arises: How can we innovate to not just manage, but strategi-

cally sequester waste, integrating it seamlessly into fresh product designs? The answer is Stackabl.

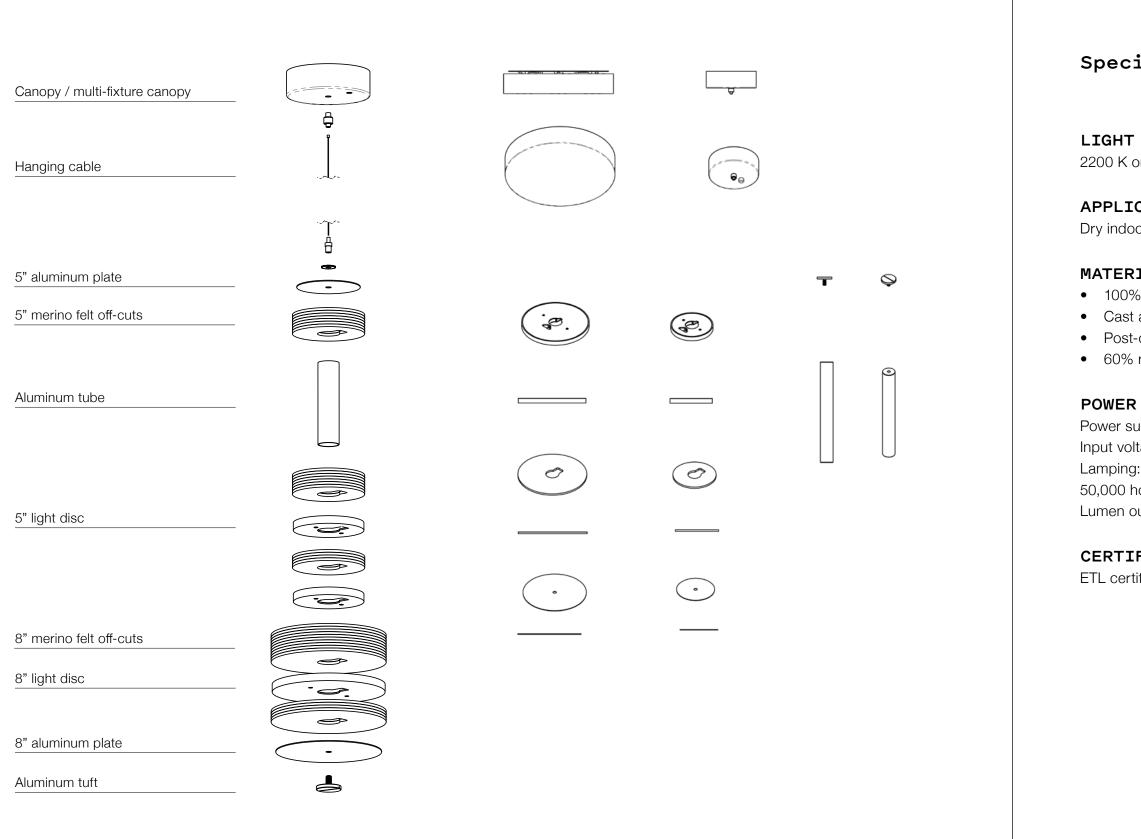
At Stackabl, we harness the power of cutting-edge, patent-pending design, processing, and production technologies. Our strategy is two-fold:

- We design, with precision, products centered around bulk textile waste streams, ensuring minimal post-processing.
- Through strategic partnerships with top-tier U.S. manufacturers, we secure premium industrial waste to create personalized acoustic lighting crafted efficiently from assembled waste materials.

Join us in redefining the waste narrative. Stackabl doesn't just recycle – we turn waste into wonders.



Components



Specifications

LIGHT DISC TEMP

2200 K or 3000 K

APPLICATION

Dry indoor use only

MATERIALS

- 100% upcycled felted merino wool
- Cast acrylic
- Post-consumer aluminum
- 60% recycled PET acoustic board

Power supply: TRIAC/ELV dimming, 0-10v, DALI Input voltage: 110-227 Vac Lamping: 12W, 24VDC LED (PER UNIT), CRI 90, 50,000 hours Lumen output at source per light disc: 585

CERTIFICATION

ETL certified

Textiles Specifications

100% Upcycled Felted Merino Wool

PRODUCT NAME

5mm Wool Design Felt

ENVIRONMENTAL

100% biodegradable/compostable, contains no formaldehyde, 100% VOC free, no chemical irritants, and free of harmful substances Contributes to LEED© Living Building Challenge Criteria Compliant Oeko-Tex Standard 100 Certified Product Class II Meets VOC test limits for the CDPH v1.2 method

ACOUSTICS ASTM C 423: NRC - 0.20, SAA - 0.20

COLORFASTNESS

Colorfastness to Light Class 4–5 (40 hours) Colorfastness to Crocking Class 3–4 (wet), Class 4–5 (dry)

FLAMMABILITY

AS/NZS 3837-1998: Group 3 ASTM E 84: Class A (unadhered + flame treated), Class B (unadhered + untreated) CAN/ULC S102-10: FS Rating 25, SD Classification 80 (flame treated) EN 13501-1 (Euroclass): D-s2-d0 (flame treated) FAR 25.853(a): Pass (60 second vertical burn), Pass (12 second vertical burn) ISO 5660.1-2002: Group 3 NFPA 701: Pass (flame treated)

DURABILITY & STRENGTH

ASTM D 5034 (Grab Test): 350 lb (avg of warp), 344 lb (avg of weft)

60% Recycled PET Acoustic Board

PRODUCT NAME PET Needle Punched Stiff Sheets

HAZARD IDENTIFICATION Hazard Designation: N/A

COMPOSITION/INFORMATION ON INGREDIENTS

Description:

- PET 99.00% CAS NO.: 25135-73-3
- TiO2 0.1% CAS NO.:
- C4H10O3 0.3% CAS NO.:
- Ash Content 0.05% CAS NO.:
- Fe 0.55% CAS NO.:

FIREFIGHTING MEASURES

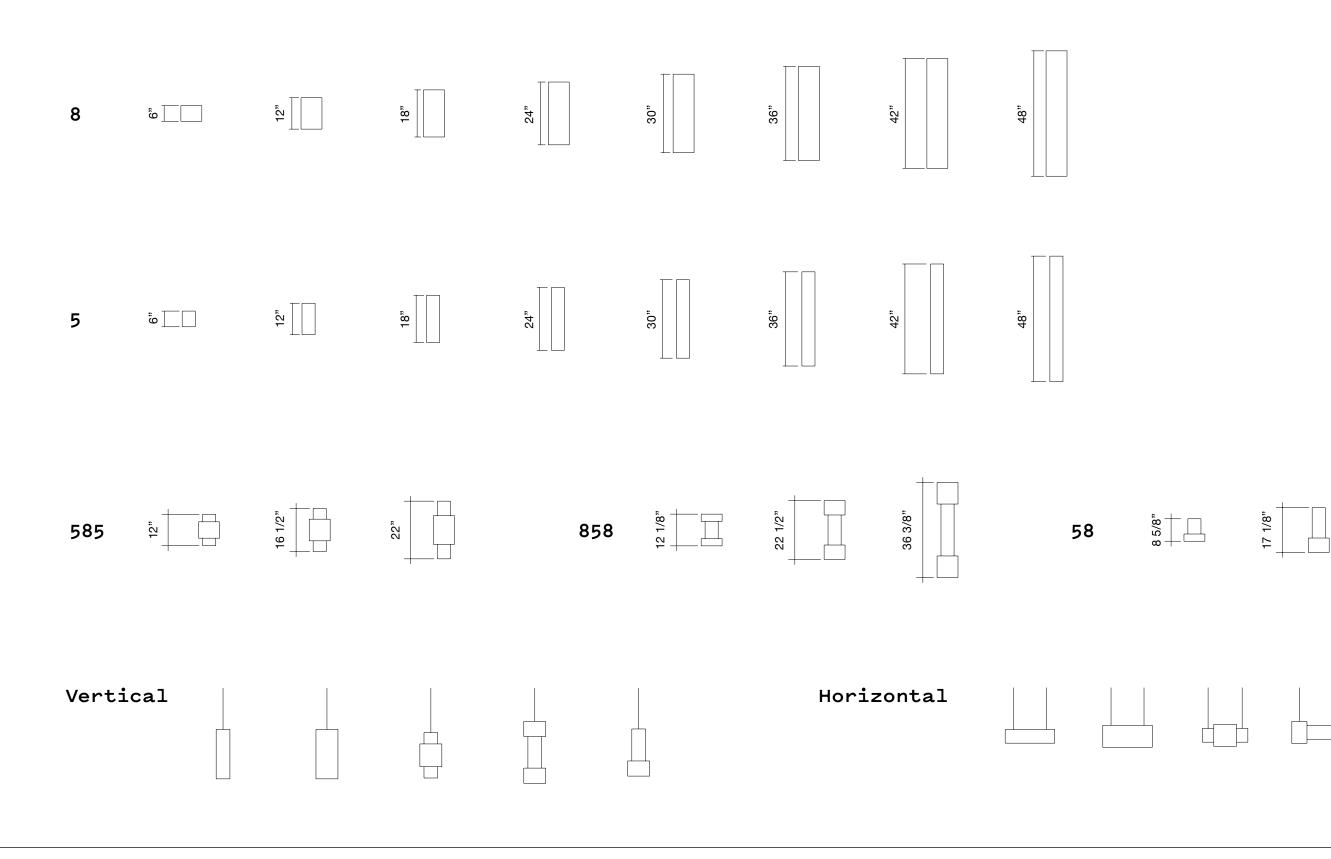
Flash Point: > 370 DegC (Estimated) Flammable Limits: N/A Autoignition Temperature: > 440 DegC (Estimated)

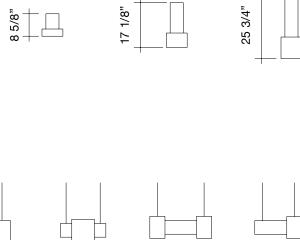
STABILITY AND REACTIVITY

Stability: Stable Incompatibility: None known Hazardous Polymerization: Will not occur. Conditions to Avoid: Temperatures above 160°C



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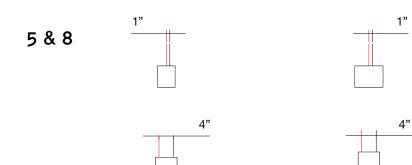


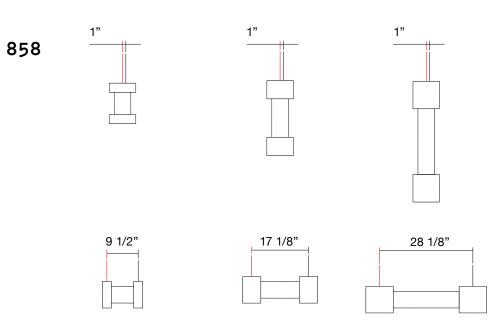


Hanging Cables

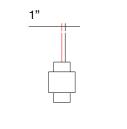
1/6 from the end of overall length for 5 and 8 fixtures

1/2 from end sections for 585, 858, 58

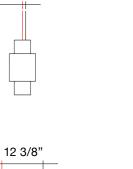




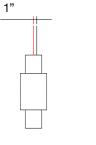
585

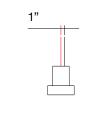


9 1/4"



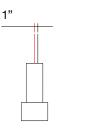
1"



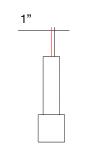


5 7/8"

58



11 3/4"



17 1/2"

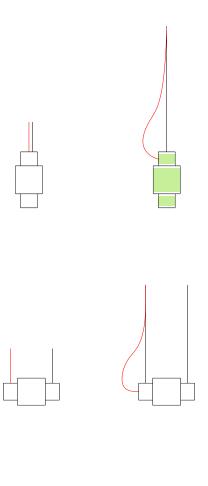
Power Cables

Top exit for vertical fixtures 1" off center

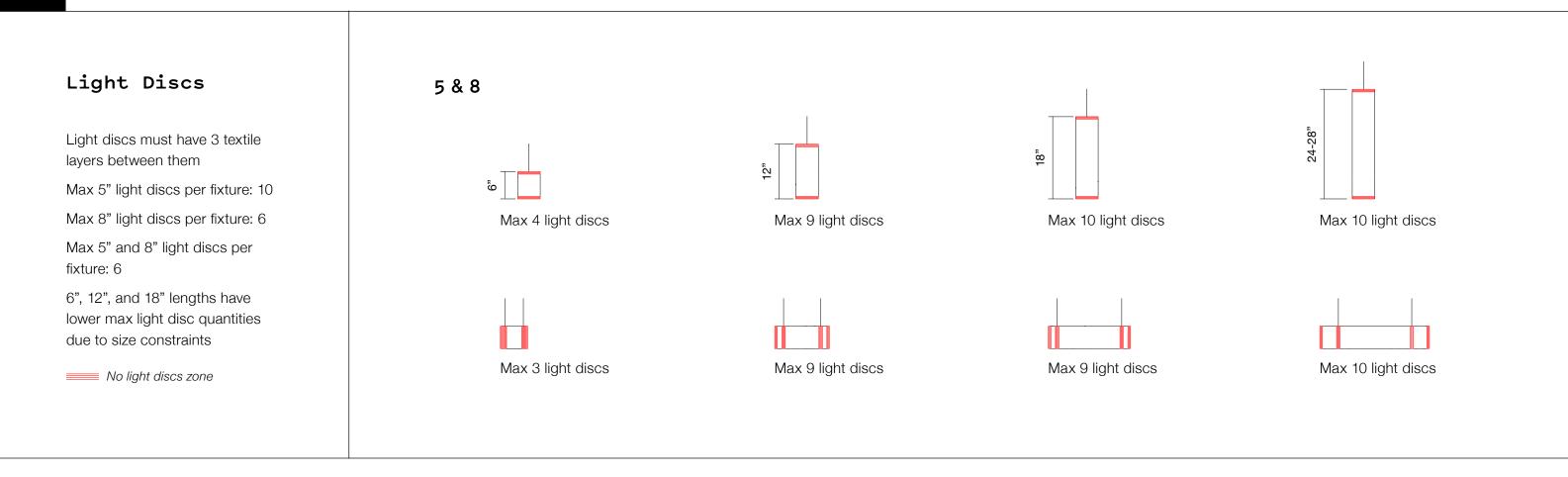
Side exit for vertical fixtures must be 3 layers away from light disc (no go zone *shown in section 6)

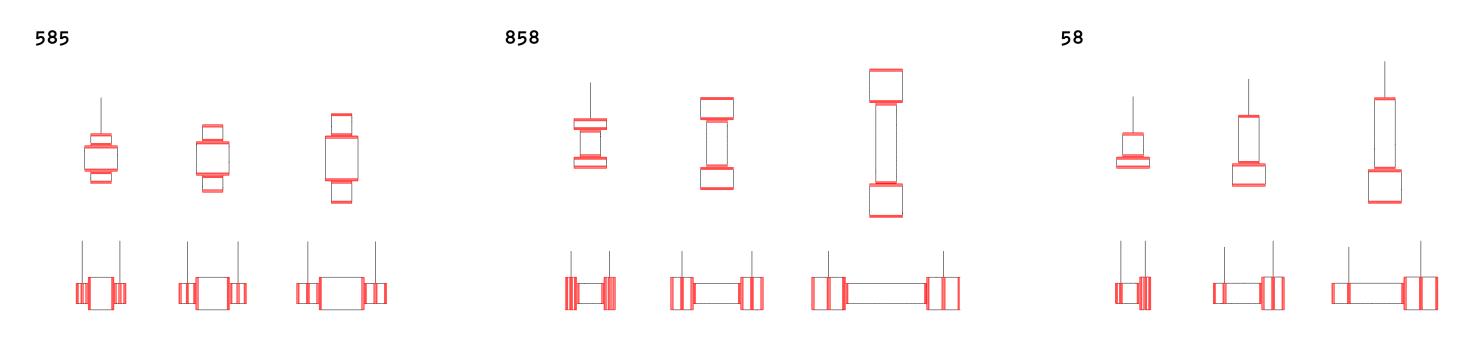
Top exit for horizontal fixtures, in line with left hanging cable

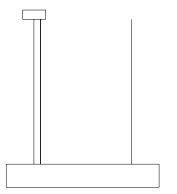
Side exit for horizontal fixtures, through end plate

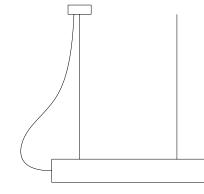


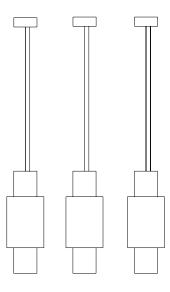
Light Disc Options

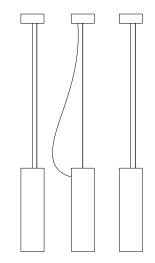






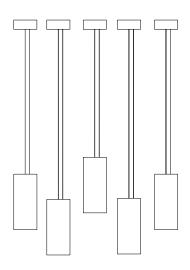




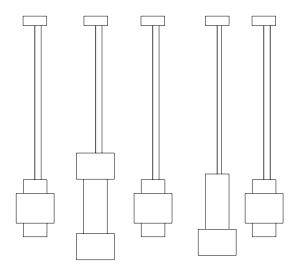


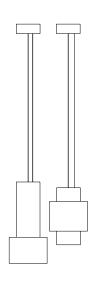
UNIT LIST \$2,200 UNIT LIST \$2,200 CLUSTER LIST \$7,500 CLUSTER LIST \$5,700

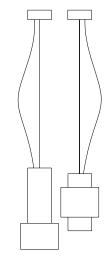
All clusters priced with one light disc per fixture up to the maximum number of discs outlined in section 6. All prices in USD. Add \$75 for a 5" light disc. Add \$100 for a 8" light disc

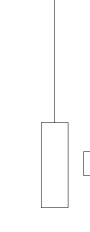


CLUSTER LIST \$8,500





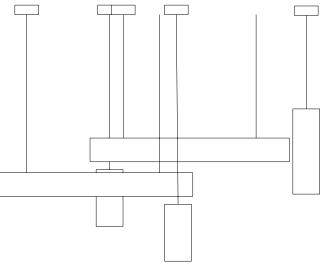


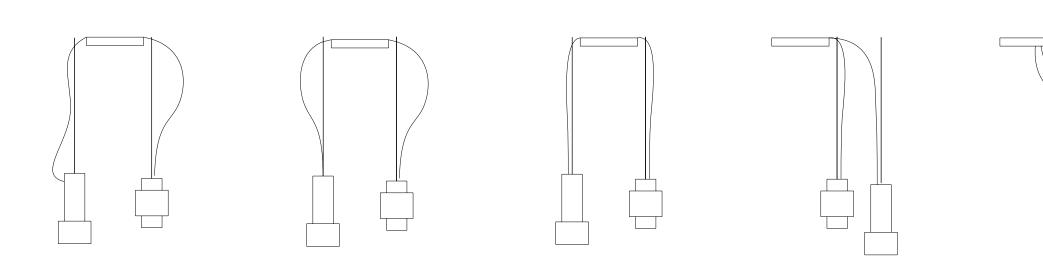


CLUSTER LIST \$11,000 UNIT LIST \$4,200 CLUSTER LIST \$4,200

CLUSTER LIST \$12,400

All clusters priced with one light disc per fixture up to the maximum number of discs outlined in section 6. All prices in USD. Add \$75 for a 5" light disc. Add \$100 for a 8" light disc



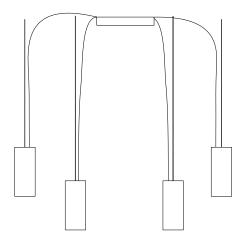


CLUSTER LIST \$5,300 CLUSTER LIST \$5,300 CLUSTER LIST \$5,300 CLUSTER LIST \$5,300 CLUSTER LIST \$5,300

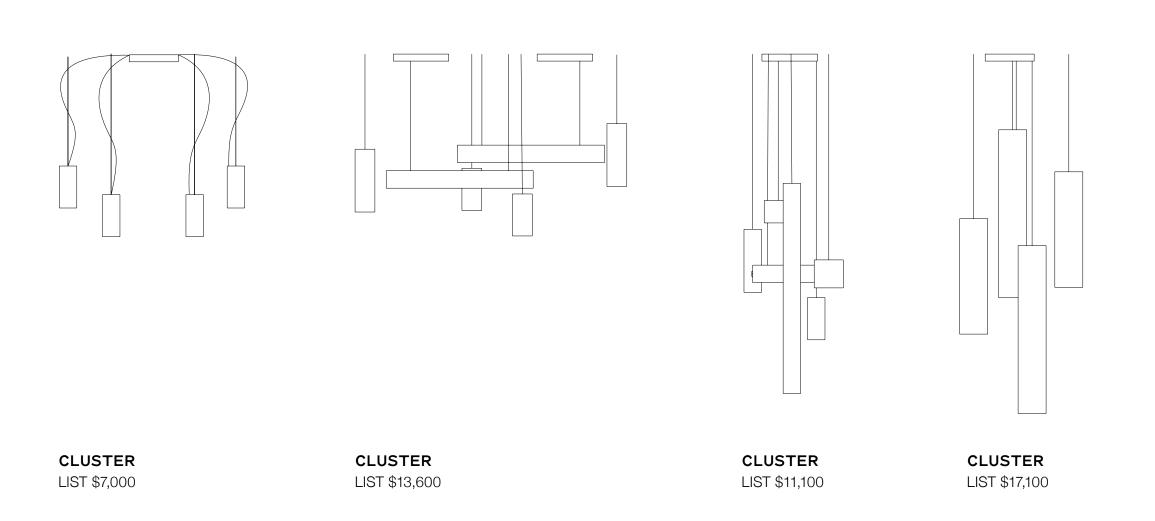
All clusters priced with one light disc per fixture up to the maximum number of discs outlined in section 6.

Multi-fixture canopies can support up to 24 light discs each.

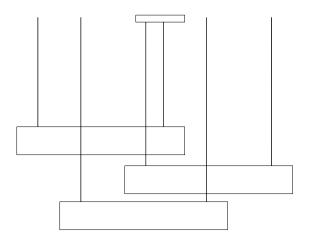
All prices in USD. Add \$75 for a 5" light disc. Add \$100 for a 8" light disc



CLUSTER LIST \$7,000



All clusters priced with one light disc per fixture up to the maximum number of discs outlined in section 6. Multi-fixture canopies can support up to 24 light discs each. All prices in USD. Add \$75 for a 5" light disc. Add \$100 for a 8" light disc



LIST \$13,200

Visualizations



CLUSTER LIST \$16,600 **UNIT** LIST \$3,600

All prices in USD. Add \$75 for a 5" light disc. Add \$100 for a 8" light disc up to the maximum number of discs outlined in section 6.



Visualizations



CLUSTER LIST \$7,100

All prices in USD. Add \$75 for a 5" light disc. Add \$100 for a 8" light disc up to the maximum number of discs outlined in section 6. Multi-fixture canopies can support up to 24 light discs each.





CLUSTER LIST \$13,500 Finishes

Natural Felted Merino Wool - Premium Remnant (Base) Colors (5mm)



60% Recycled Polyethylene Terephthalate (Pet) Colors (9mm)





Gold

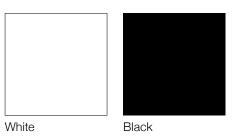


Black

Metal Components Material Options



Canopy Color Options



Please note that colors may vary between production runs



White





Orange



Chestnut





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Photo by Patrick Biller