iPANEL®

Melamine
FOSB ENF Collection

SPECIFICATIONS

Size	1830 x 2440mm (6 x 8ft)
Thickness	16mm
Edgebanding	1 x 23mm / 1 x 46mm

About

IPANEL MELAMINE FOSB ENF

Melamine FOSB (Fine Surface Oriented Strand Board) is a highly durable, engineered wood panel that combines the heavy-duty structural strength of traditional OSB with a perfectly smooth, decorative finish. Unlike standard OSB, which is known for its rough and flaky texture, FOSB is manufactured using ultra-fine wood fibers on its outer layers. This perfectly flat surface is then thermo-fused with melamine resin-impregnated paper, resulting in a pre-finished board that is highly resistant to scratches, moisture, and daily wear. Because of this unique multi-layered construction, it has become a premium, cost-effective choice for modern furniture manufacturing, kitchen cabinetry, and interior wall paneling.

What makes Melamine FOSB a structural revolution compared to traditional MDF (Medium-Density Fiberboard) or particleboard is its exceptional load-bearing capacity, unmatched screw-holding strength, and eco-friendly profile. The core strands are cross-oriented for maximum rigidity, and the board typically utilizes formaldehyde-free MDI adhesives, which ensures excellent indoor air quality while preventing the wood from swelling or warping in humid environments.

Superior Structural Strength	Maximum Screw-Holding Power	Advanced Moisture Resistance
Flawless Decorative Finish	Eco-Friendly & Safe	Exceptional Dimensional Stability

Melamine FOSB Structure

Decorative Laminate

Fine Surface Material

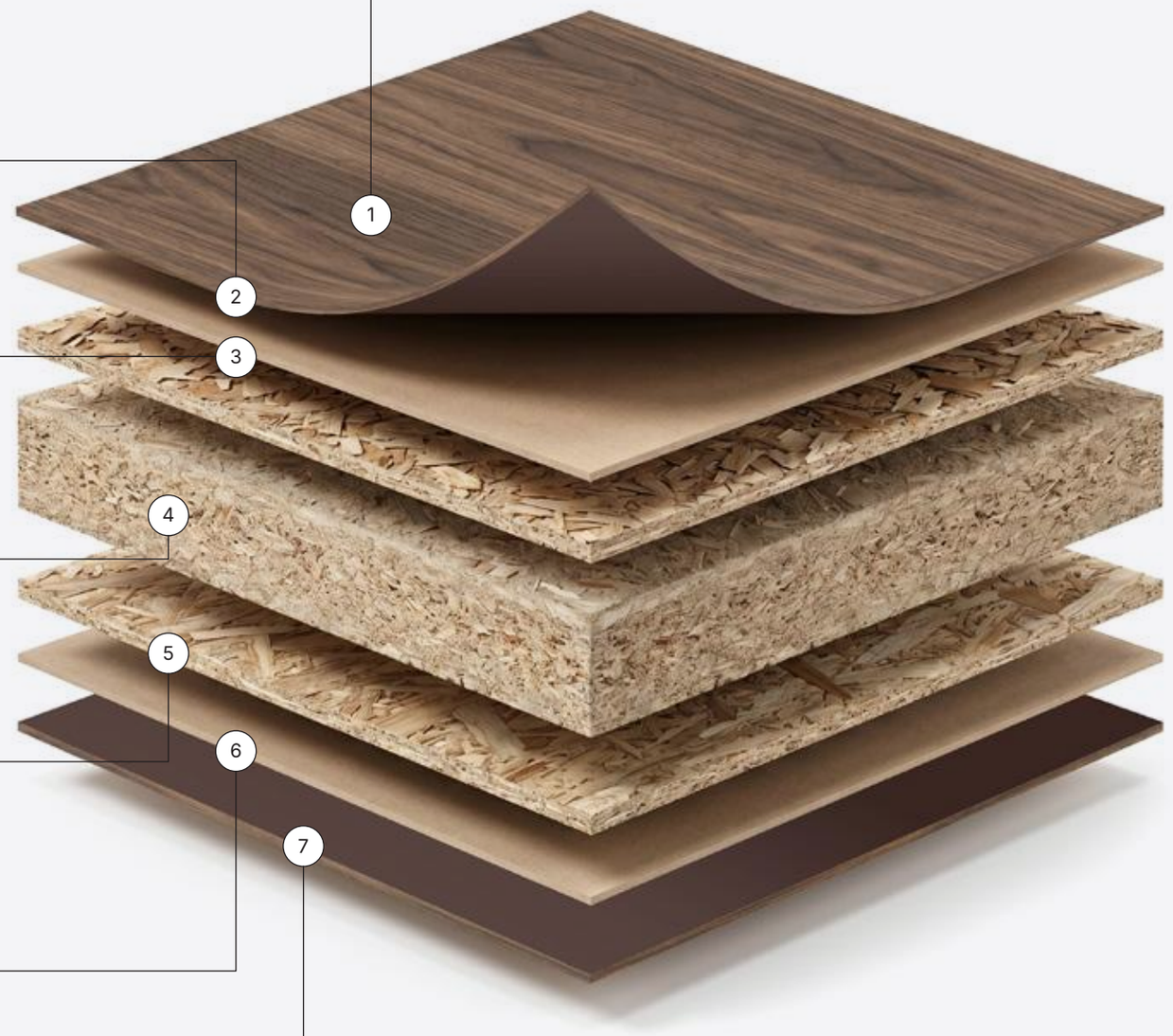
Cross-Oriented Flake Layer

Substrate Core Layer

Cross-Oriented Flake Layer

Fine Surface Material

Decorative Laminate



ENF (Emission Free MDI Resin)		Durable and Wear Resistant
5 Layers Modutech	Smooth Surface	High Moisture Resistance

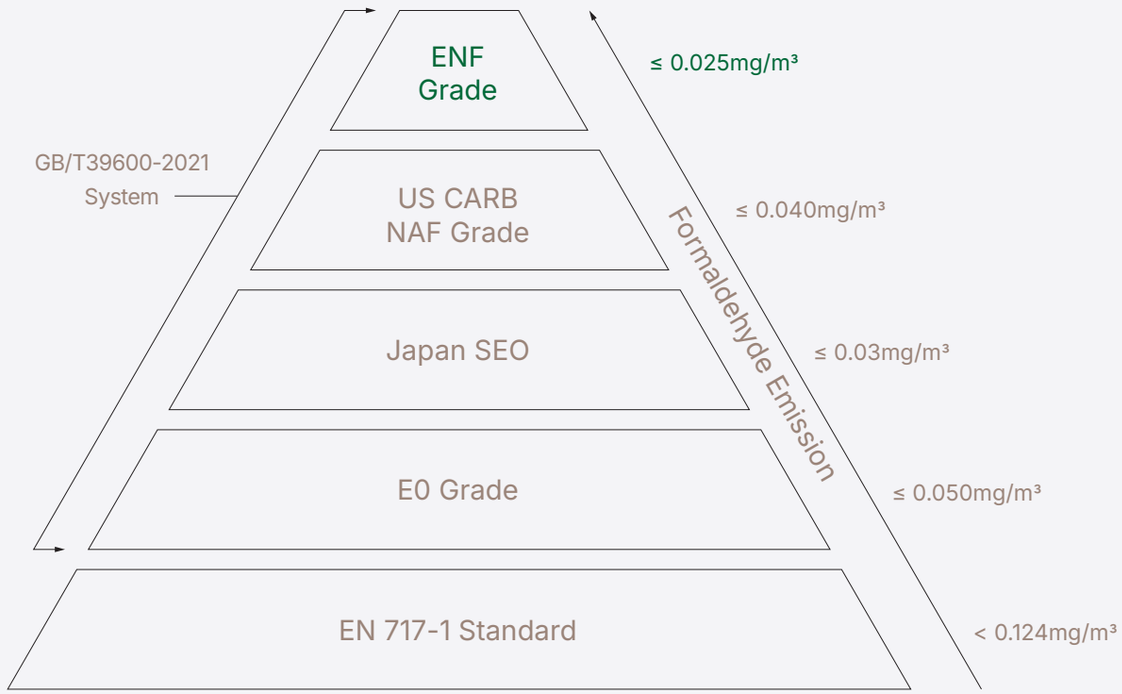


What is ENF Standard?

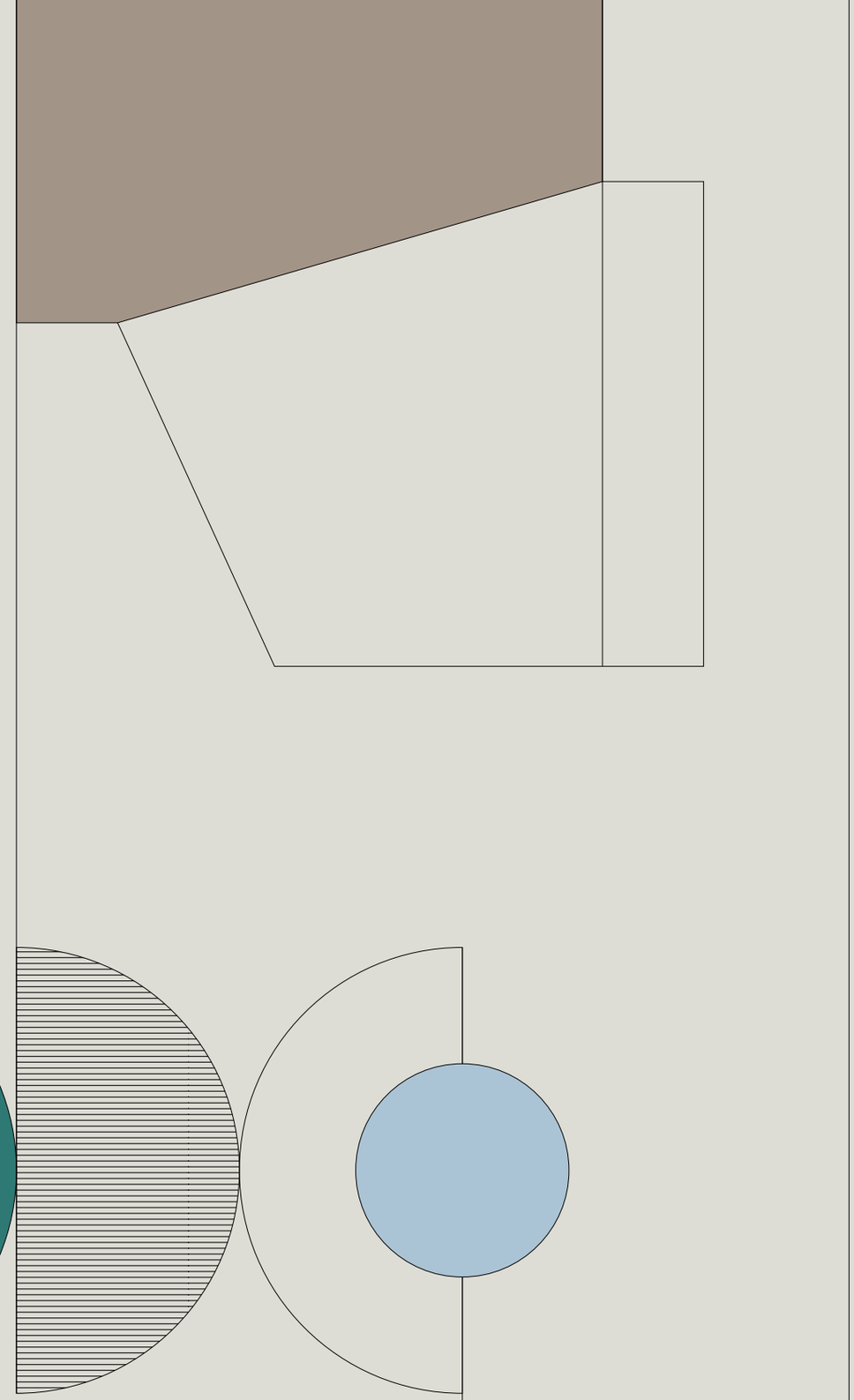
ENF is the highest formaldehyde emission class under China's GB/T 39600-2021 standard. It has an emission limit of ≤0.025 mg/m³, which is much lower than E1 and CARB P2 standards.

ENF panels are made using no formaldehyde-added adhesives, such as MDI or other zero-formaldehyde binders. This helps reduce formaldehyde release from the finished board, making it a safer and healthier choice for indoor use. ENF is becoming a preferred option for high-end and health-sensitive projects such as hotels, schools, hospitals, bedrooms, children's rooms, and elderly care spaces. Reputable manufacturers can provide third-party test reports from organizations such as SGS, TÜV, or BV for verification.

For budget-focused projects, E0, E1, or CARB P2 panels may already provide good environmental performance. However, for enclosed spaces or projects that prioritize indoor air quality, ENF is highly recommended.



Built for creative expression. This solid collection offers a versatile palette of tones perfect for endless mixing and matching.



COLLECTION

SOLID

iPANEL®

5E01 Black



iPANEL®

5E02 Graphite



5E03 Ivory



iPANEL®

5E04 Grey



iPANEL®

5E05 Red



iPANEL®

5E06 Winkle 2



iPANEL®

5E07 SB Green



iPANEL®

5E08 Smoky Green



iPANEL®

5E09 Smoky Blue





5E10 Claro Grey



iPANEL®

5E11 Sofie Grey





5E12 Ceniza Grey

iPANEL®

5E13 Gris





5E14 Monjo

iPANEL®

5E15 Solido Grey



iPANEL®

5E16 Carrela





5E17 Pelo Grey

iPANEL®

5E18 Azul

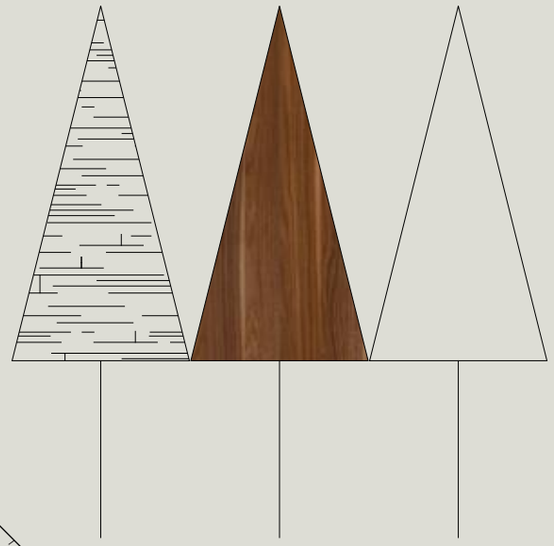


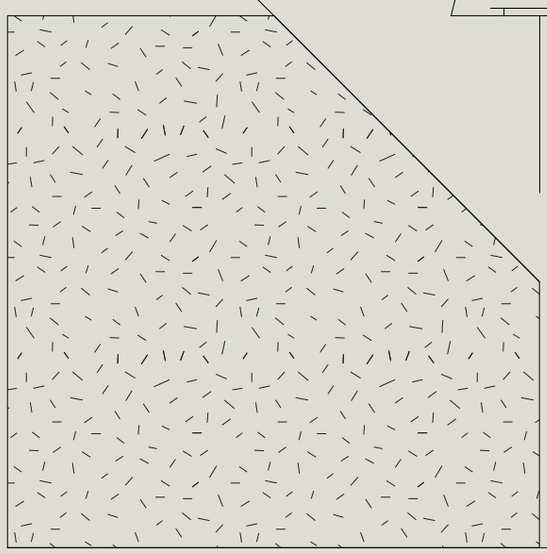
iPANEL®

5E19 Celio Green



Raw nature meets modern design. Our wood grain collection embraces the beauty of imperfection, highlighting the rich, timeworn textures of the earth.









COLLECTION

WOODS



9E01 Eiche Royal Naturdiele





9E02 Rijeka Eiche



9E03 Virginia Walnut





9E04 Absolut Walnut



9E05 Canyon Portland Chestnut



9E06 America Canyon Chestnut



9E07 Pacific





9E08 Poris Pacific





9E09 Belluno Apfelbaum



9E10 San Marino Eiche



9E11 Santiago



9E12 Loftwood





9E13 Graven Loftwood





9E14 Kitami Ruester



9E15 Kitami Resara



9E16 Natural Chestnut





9E17 Sonora Chestnut





9E18 Moldau Akazie

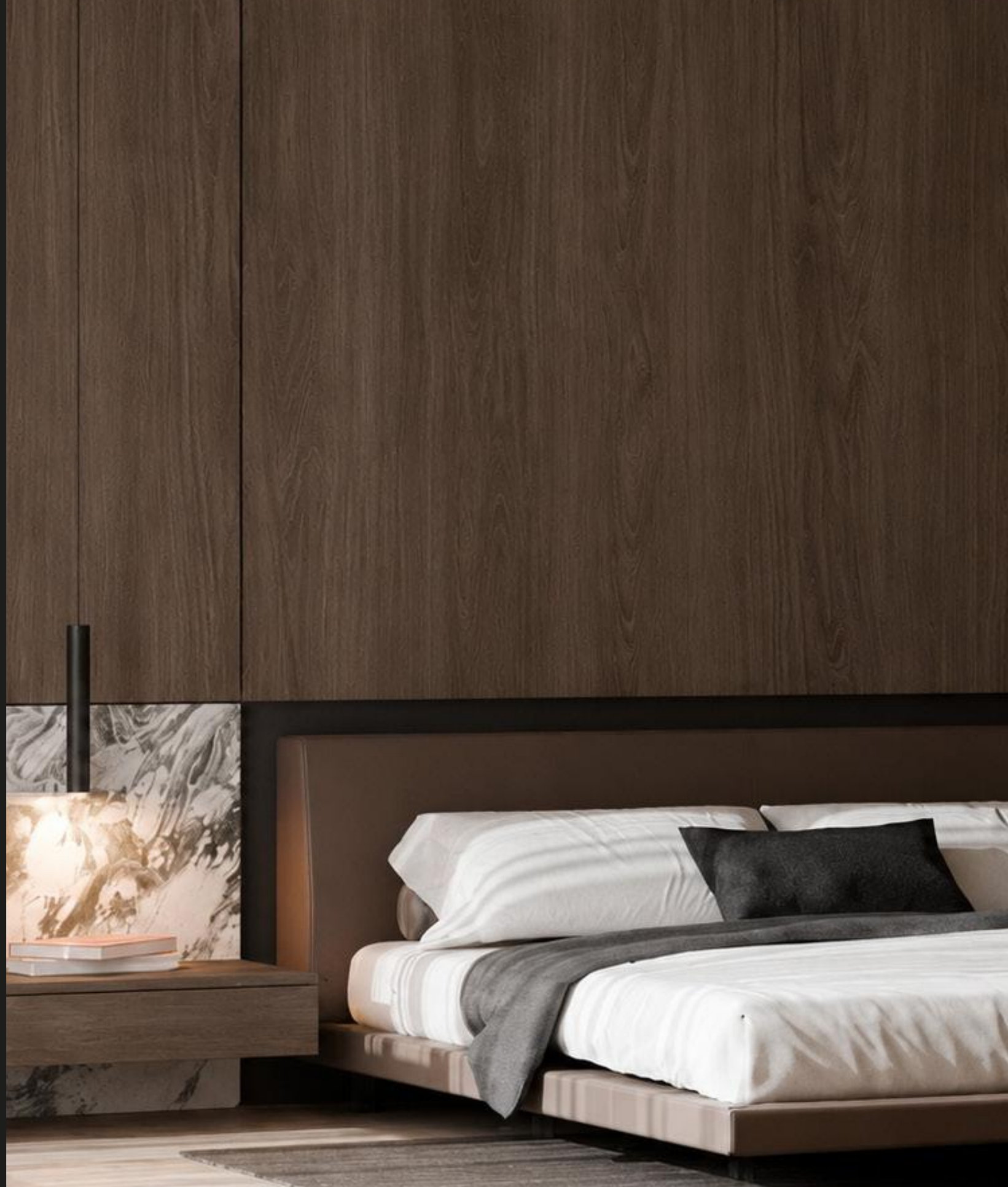




9E19 Dark Akazie

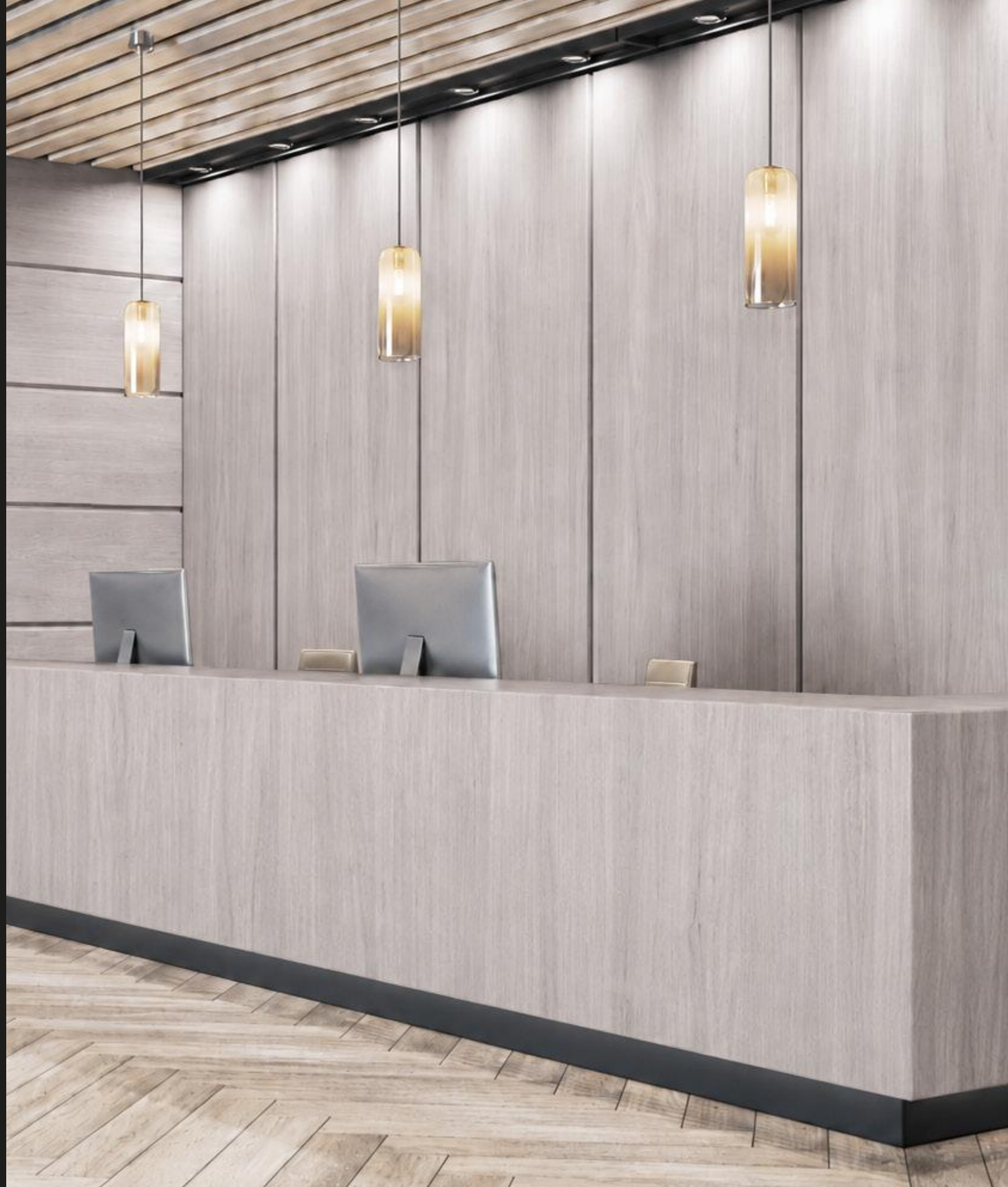


9E20 Leander Mobile





9E21 Conwy Elm





9E22 Eurasia



9E23 Argento



9E24 Stanley Hickory



9E25 Grevy





9E26 Grevy Light





9E27 Balestrino Bengio



9E28 Balestrino Mario



9E29 Annapura Noce



9E30 Harris





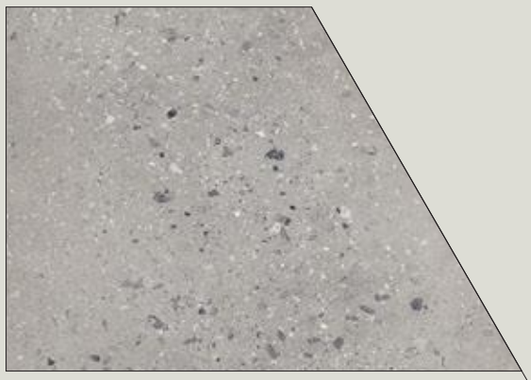
9E31 Ramena





9E32 Ambassador







Timeless stone, modern design.

From the smoothness of marble to the rugged allure of granite, this collection brings architectural strength and sophisticated elegance to any space.

COLLECTION

STONE



8E01 Mercurio



8E02 Custare Caspio



8E03 Ossidi Caspio



8E04 White Stone



8E05 Black Stone



8E06 Alyson Light

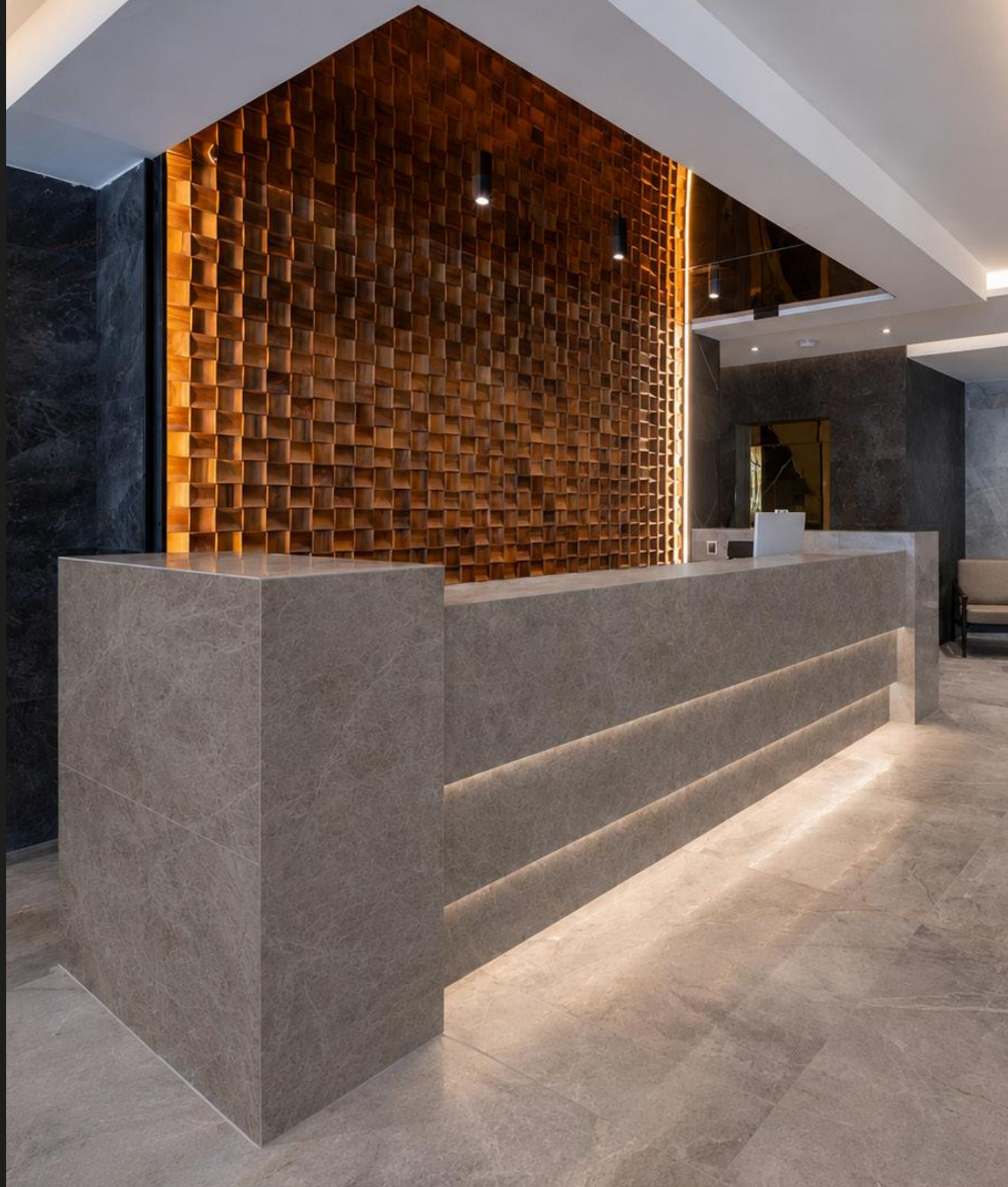




8E07 Delaware



8E08 Alyson Dark

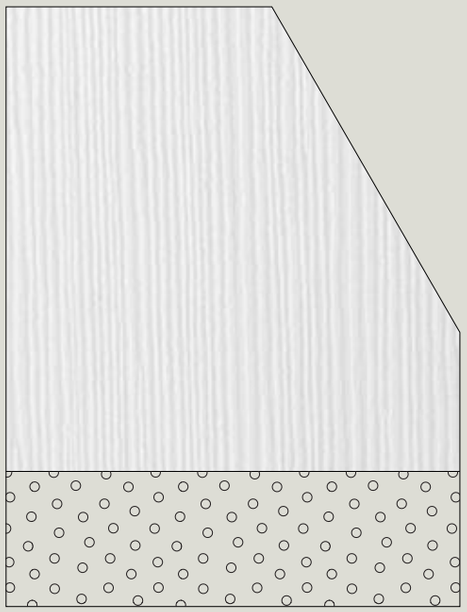


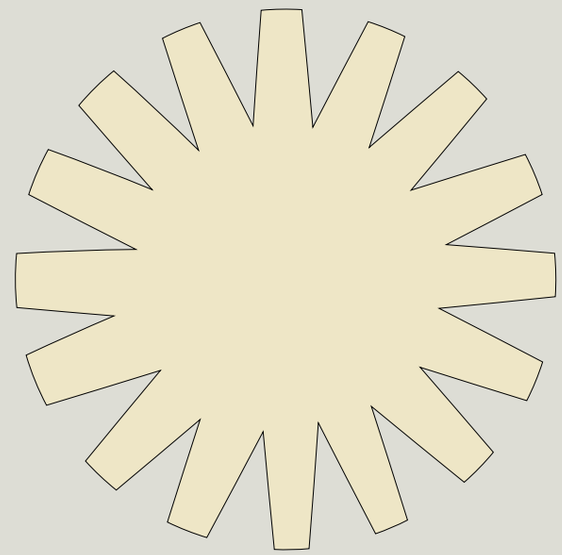


8E09 Kena

Serene, understated and elegant. The ultimate choice for minimalist interiors, this collection creates a calm, balanced atmosphere with timeless appeal.







COLLECTION

DECOR



6E01 Ardenno



6E02 Grainy Black

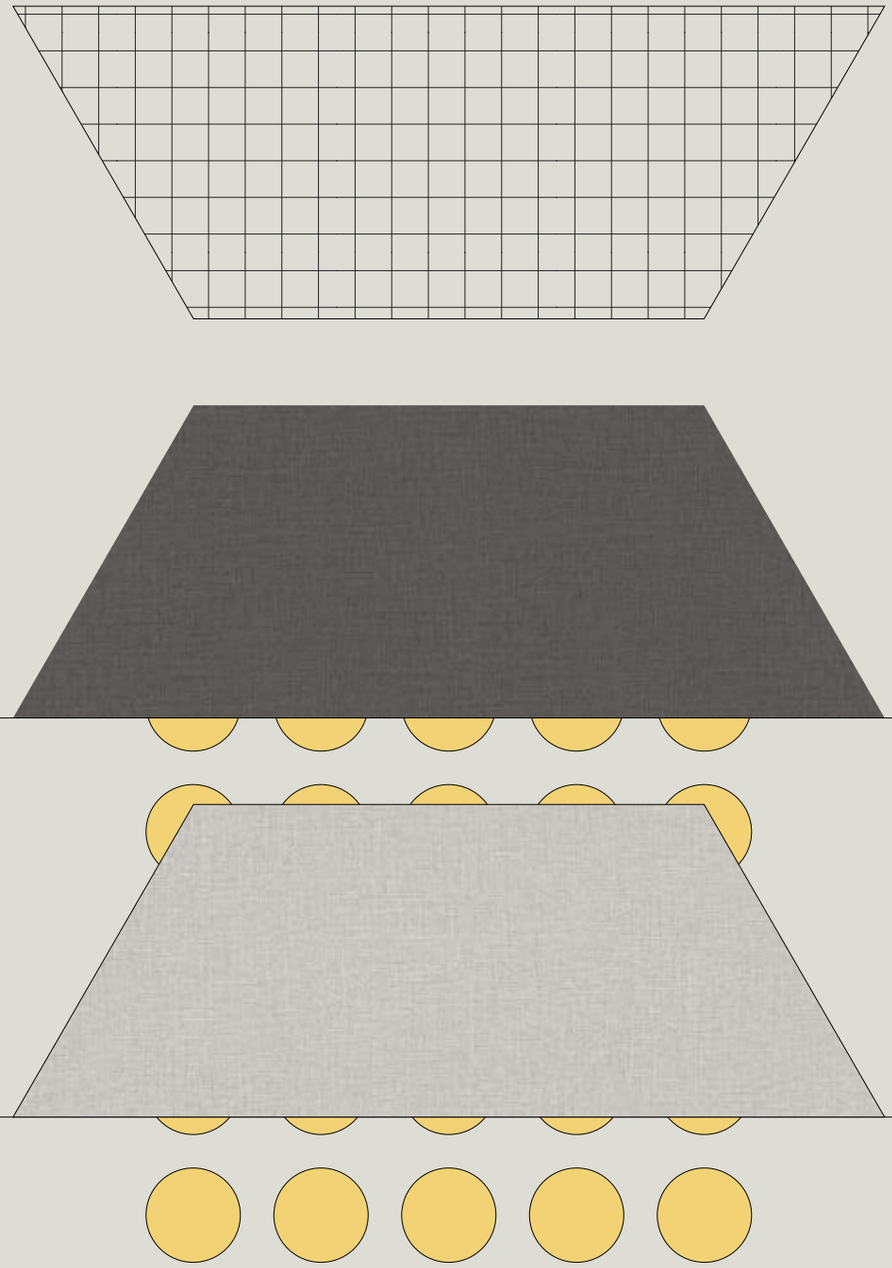




6E03 Fino White

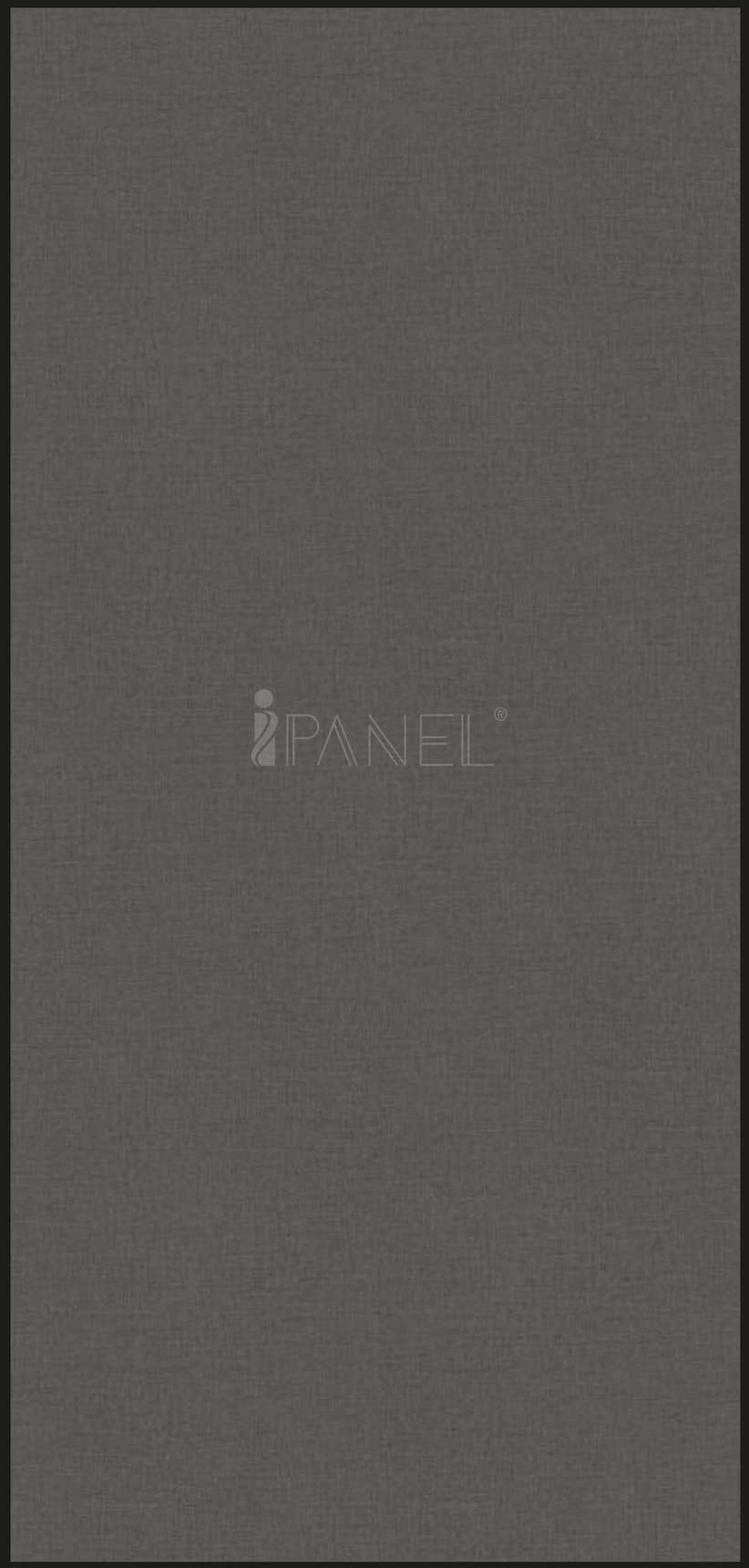


Design with dimension. From luxurious velvets to crisp linens, this collection brings a rich, tactile warmth and sensory depth to your surfaces.

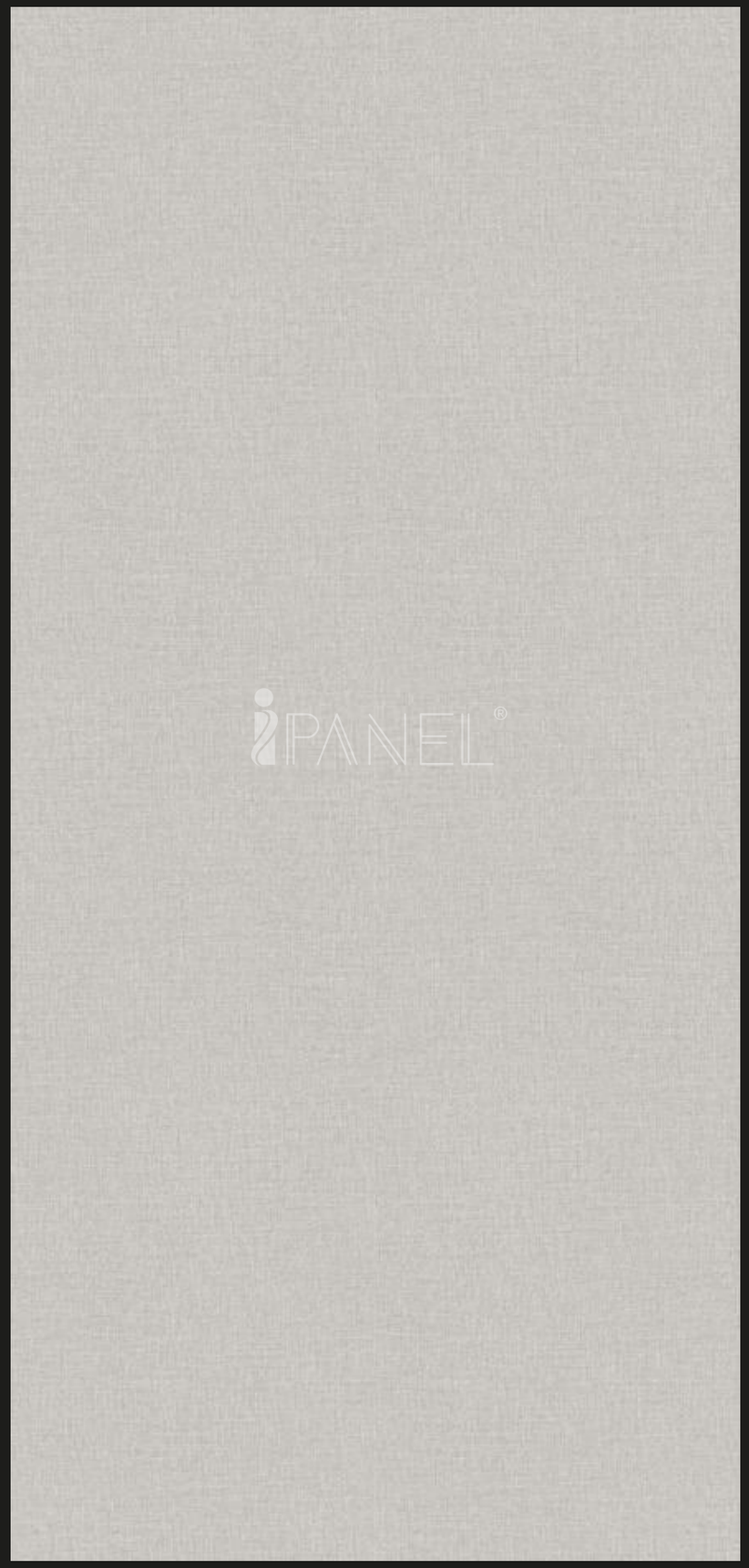


COLLECTION

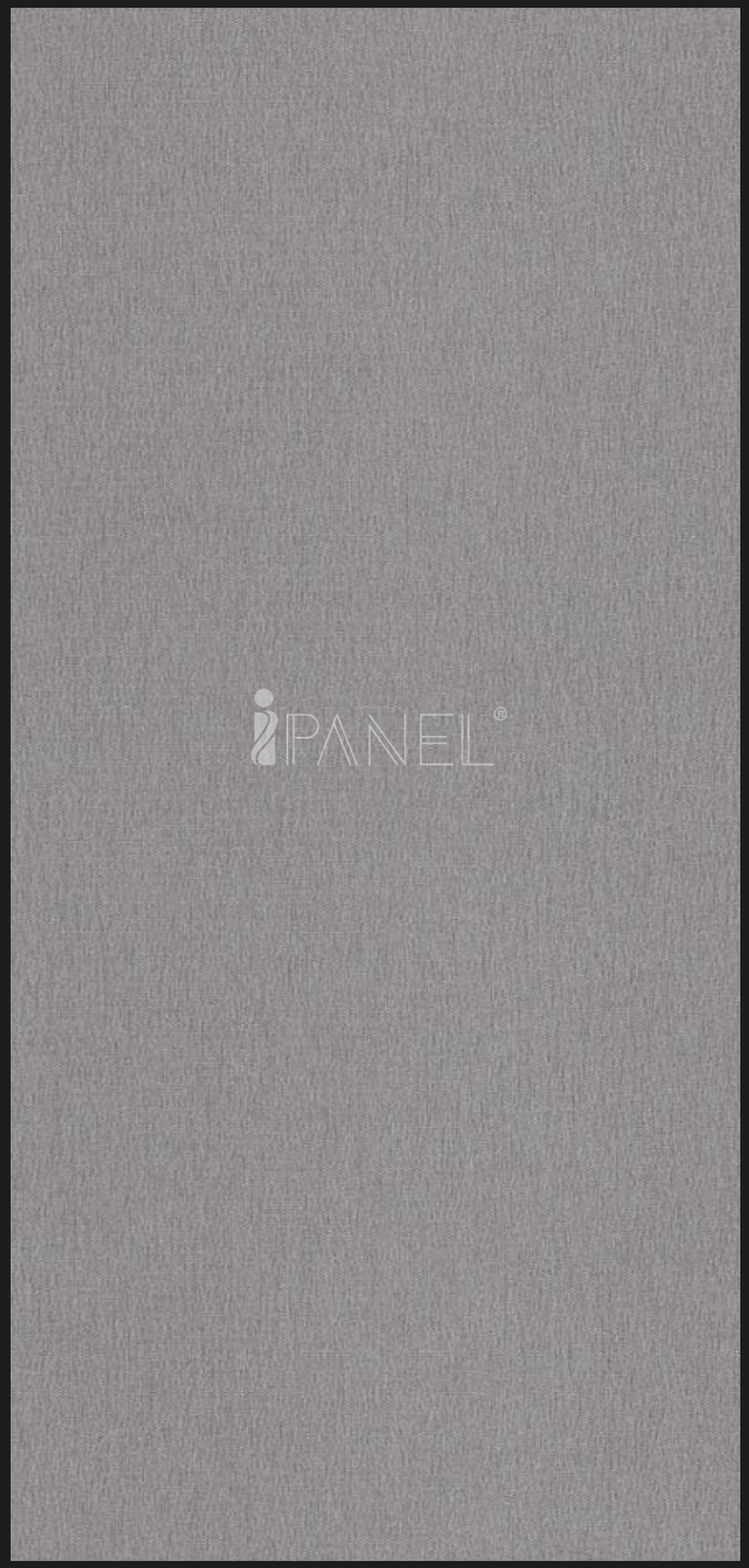
FABRIC



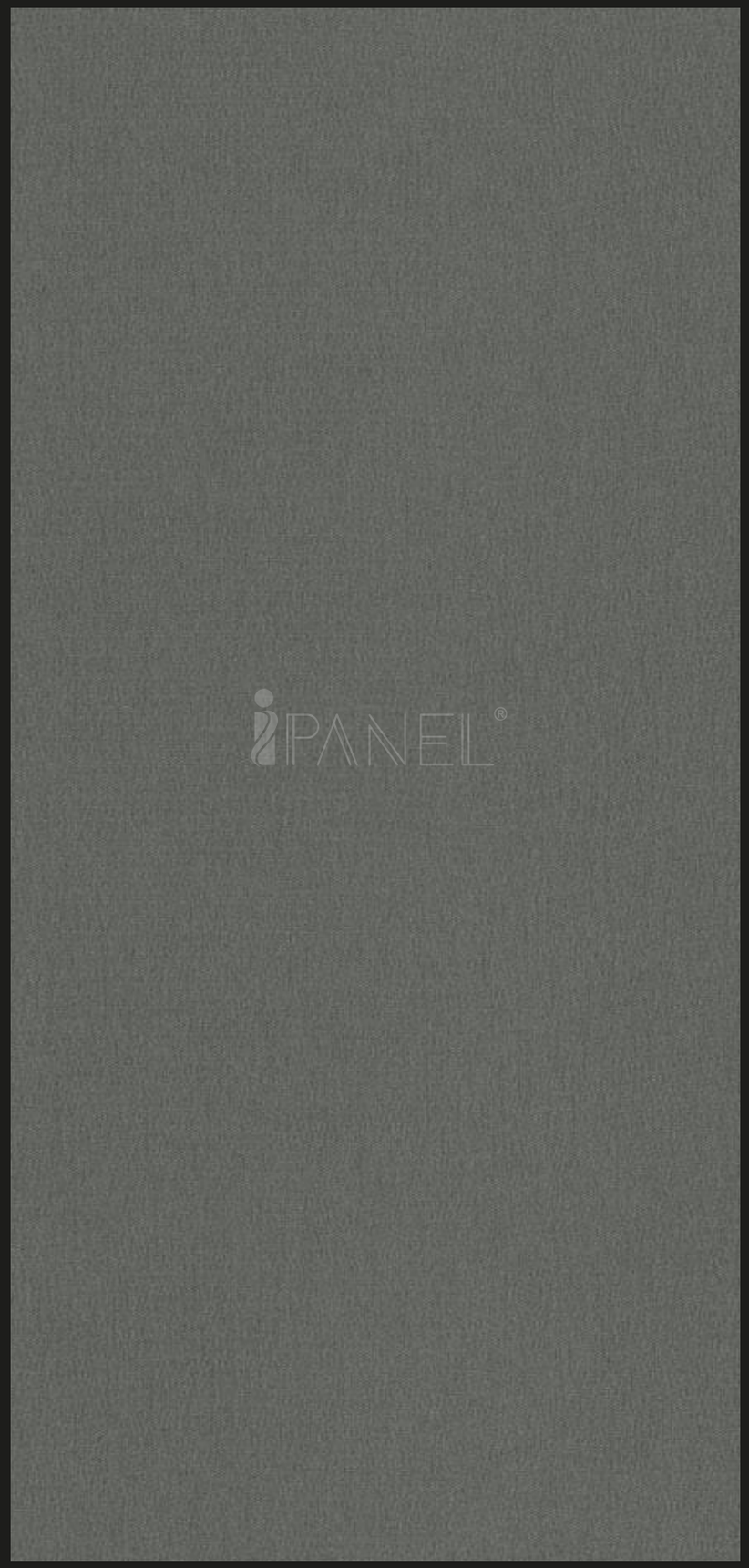
7E01 Cocoa Twist



7E02 Cosmo Twist



7E03 Levish Fabric



7E04 Serena Fabric

Matched Melamine FOSB Edgeband

Available sizes : 1 mm x 23 mm x 200 meter
1 mm x 46 mm x 100 meter







iPANEL®