



LORH LA SENG

Commercial Sole Company Limited

Crystalline Quartz Aggregate for Engineered Stone

White Vein Quartz | Premium Surfaces



Sector reference — quartz countertop installation



LLS vein quartz — white crystalline matrix

99.5 – 99.89% SiO₂

CRYSTALLINE PURITY = VISUAL CLARITY

Fe₂O₃ 30 – 200 ppm

LOW-IRON STREAKS FOR WHITE COLORWAYS

Clean Crushing

HOLDS AGGREGATE SIZE DISTRIBUTION

For Vicostone-class engineered stone fabricators developing white and translucent product ranges

About Lorh La Seng

Lorh La Seng Commercial Sole Co., Ltd. operates hydrothermal vein-quartz deposits in Bolikhamxay Province, Lao PDR, dedicated to supplying **lump quartz feedstock** for crystalline quartz aggregate for resin-bonded engineered-stone surfaces. Our ROM ore is naturally high-purity (SiO_2 99.5–99.89%), with iron content already low enough for most downstream processes — without acid leaching or flotation. With a government-granted export quota of 120,000 MT/year (Mine 1) and a further 500,000 MT/year coming online in 2027 (Mine 2), we offer scale, consistency, and long-term supply security for engineered-stone fabricators across Asia.



White crystalline vein quartz — visual purity matches lab purity



Dense lump — fragments along clean planes during crushing

Engineered Stone Product Suitability

Product Line	SiO_2 Required	Fe_2O_3 Limit	LLS ROM Fit
White surfaces (Carrara look)	$\geq 99.5\%$	≤ 100 ppm	● Premium hand-sorted streaks
Translucent / backlit surfaces	$\geq 99.7\%$	≤ 50 ppm	● Top-tier hand-sorted
Standard veined (grey, beige)	$\geq 99\%$	Tolerant	✓ Bulk ROM
Cream / sand colorways	$\geq 99\%$	≤ 300 ppm	✓ Standard ROM
Black / dark engineered stone	$\geq 98\%$	Tolerant	✓ Wide tolerance

ATIGA 0% Import Duty + 0% VAT: Lao PDR origin qualifies for zero import duty into Vietnam, Thailand, Indonesia, Malaysia, Philippines, and all ASEAN member states under the ASEAN Trade in Goods Agreement. Combined with 0% VAT for export-processing enterprises, **LLS feedstock delivers ~30% lower landed cost** versus domestic-sourced quartz across Southeast Asia.

Note: Engineered stone is sold on color and clarity in the showroom. Iron staining or visible impurity turns countertops grey-green — a defect customers see, not just labs. LLS hand-sorts premium white streaks separately from bulk; samples shipped with sealed reference for color-matching against your existing aggregate supply.

Why LLS for Engineered Stone

1. White, crystalline matrix. Hydrothermal vein quartz crystals are inherently white when iron is absent — visual purity matches lab purity. No "looks white but greys when bonded with resin" surprises. **2. Crushes cleanly to controlled grain.** Dense lump fragments along clean cleavage planes, holding aggregate size distribution through the crushing line. Predictable -50/+100 mesh yield. **3. Low-iron streaks for premium colorways.** Hand-sorted premium lots feed white and translucent product lines without bleaching, acid washing, or surface treatment. **4. Two product tiers.** Premium streaks (Fe_2O_3 30–100 ppm) for white surfaces; bulk ROM (200–500 ppm) for veined / dark / cream colorways — same shipment if needed. **5. Vietnam neighbour.** Truck haul to Cua Lo Port, then short vessel to Vietnam (Vicostone), China (Foshan cluster), Italy, Turkey. **6. Aggregate validation samples.** 100 kg sealed reference + 1 MT pilot batch on request — color-match before commit.



Selective extraction — visible white streaks reserved for premium surfaces

Target Customers & End Uses

Vicostone (Vietnam)

Phenikaa Group flagship engineered-stone brand — global export

Caesarstone (Israel / Global)

Premium white & translucent product lines — global distribution

Cosentino Silestone (Spain)

Premium quartz surface brand — global premium positioning

Cambria (USA)

US-market premium engineered-stone — white surface focus

Foshan Cluster (China)

Chinese engineered-stone fabricators — bulk grey & beige colorways

Italian Quartz Surfaces

Santa Margherita, Quarella — premium European fabricators

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