VITRANO

TECHNICAL SHEET · EDITION 2026

EXPORT LOGISTICS

Packing & *Container* Guide

How Vitrano packs, palletises and loads tiles and slabs — and how many square metres fit in your container.



Export pallet: five-ply cartons, corner protectors, PET strapping and stretch wrap on an ISPM-15 heat-treated pallet.

~27 t	1,382 m²	1,267 m²	< 1 %
practical payload, 20ft and 40ft alike	600×600 mm, 9 mm, per 20ft	600×1200 mm, 9 mm, per 20ft	in-transit breakage target

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01 · PACKING SPECIFICATION

Per-size packing & loading

Indicative export packing for standard Vitrano formats. Box weights follow our product data; boxes per pallet and pallets per container are set so the load stays within a ~27 t payload. Slabs travel in A-frame or wooden crates (shown as "pallet").

SIZE (MM)	PRODUCT	THK MM	PCS/ BOX	M²/ BOX	KG/ BOX	BOXES/ PALLET	PALLETS/ CTR	BOXES/ CTR	M²/ CTR	NET KG/ CTR	CTR
VITRANO MORBI RANGE — MADE IN INDIA (FOB MUNDRA)											
300 × 600	Ceramic wall tile	9	5	0.90	13	80	25	2,000	**1,800**	26,000	20ft
300 × 600	Step tread (porcelain)	10	4	0.72	16	72	23	1,656	**1,192**	26,496	20ft
600 × 600	GVT / double charge / full body	9	4	1.44	27	40	24	960	**1,382**	25,920	20ft
600 × 600	Parking tile	12	3	1.08	30	36	24	864	**933**	25,920	20ft
600 × 600	Outdoor porcelain	20	2	0.72	32	33	25	825	**594**	26,400	20ft
600 × 1200	GVT / PGVT / wood-look	9	2	1.44	30	40	22	880	**1,267**	26,400	20ft
600 × 1200	Outdoor porcelain paver	20	1	0.72	34	30	26	780	**562**	26,520	20ft
800 × 800	Full body / terrazzo-look	10	3	1.92	40	33	20	660	**1,267**	26,400	20ft
800 × 1600	GVT / PGVT	10	2	2.56	62	21	20	420	**1,075**	26,040	20ft
800 × 2400	Porcelain slab (A-frame crate)	9	1	1.92	48	36	15	540	**1,037**	25,920	20ft
1200 × 2400	Porcelain slab (A-frame crate)	9	1	2.88	75	29	12	348	**1,002**	26,100	40ft
VITRANO FOSHAN COLLECTION — MADE IN CHINA (FOB NANSHA / SHENZHEN)											
800 × 2600	Porcelain slab (crate)	9	1	2.08	46	36	15	540	**1,123**	24,840	20ft
1200 × 2400	Thin porcelain 6 mm (crate)	6	1	2.88	42	40	15	600	**1,728**	25,200	40ft HC
1600 × 3200	Sintered stone (A-frame)	12	1	5.12	147	20	9	180	**922**	26,460	40ft

All figures are **indicative**. Final pcs/box, box weight and loading plan depend on design, thickness and pallet type, and are confirmed on the proforma invoice and packing list.

Net weight excludes pallets (~35 kg each) and slab crates / A-frames (~80–100 kg each). Euro pallets reduce m² per container by ~10 %. Mosaics (10–20 sheets / box) and sanitaryware load by volume — planned per order.

Worked example — a mixed 20ft

LINE	PALLETS	BOXES	M²	NET KG
600 × 1200 GVT, 9 mm (40 boxes / pallet)	11	440	633.6	13,200
600 × 600 GVT, 9 mm (40 boxes / pallet)	12	480	691.2	12,960
Total container	**23**	**920**	**1,324.8**	**26,160**

Add ~805 kg of pallet tare (23 × 35 kg) for a gross cargo weight of ~26.97 t — within the 20ft payload.

02 · CONTAINER CHOICE

20ft vs 40ft — weight, not volume

Ceramic tile is dense: a 9 mm porcelain tile weighs about 20–21 kg per m². A container therefore reaches its legal payload long before it is full. Shipping-line limits and road-haulage axle limits (on the Morbi–Mundra road and at destination) keep both 20ft and 40ft containers at roughly the same cargo weight.

CONTAINER	20FT STANDARD	40FT STANDARD / HIGH CUBE
Internal length × width × height	5.90 × 2.35 × 2.39 m	12.03 × 2.35 × 2.39 m (HC: 2.69 m)
Nominal volume	~33 m³	~67 m³ (HC: ~76 m³)
Usable volume for tile pallets (approx.)	~28 m³	~58 m³
Max. gross weight (container)	30,480 kg	30,480–32,500 kg
Practical cargo payload for tiles	~26–27 t	~27–27.5 t
Typical pallets of tile	20–26	Same weight → similar count, more floor space

600 × 1200 · 9 MM IN 20FT

~1,267 m²

880 boxes · ~26.4 t net. Payload is the limit; the box is not full.

SAME TILE IN 40FT

~1,300 m²

Volume would allow ~2,700–2,900 m², but that is ~52 t — not legal. Weight caps it at ~27.5 t.

THIN PORCELAIN 6 MM IN 40FT HC

~1,728 m²

Light, long panels — here the 40ft genuinely carries more.

Choose a 20ft when…

- ☐ Shipping standard floor and wall tiles up to 800 × 1600 mm
- ☐ Shipping 20 mm outdoor pavers, parking tiles and steps
- ☐ You want the lowest freight per m² on most lanes
- ☐ Mixing several designs and sizes by full pallet

Choose a 40ft / 40HC when…

- ☐ Shipping 1200 × 2400 slabs and 1600 × 3200 sintered stone on A-frames
- ☐ Shipping 6 mm thin porcelain or light ceramic wall tiles
- ☐ Shipping mosaics and sanitaryware, which load by volume
- ☐ The lane prices a 40ft close to a 20ft and payload allows

> Never overload: declared VGM (SOLAS) is checked on a weighbridge, and overweight boxes are rolled or re-stuffed at the shipper's cost. Weight must also be spread evenly front-to-back for axle limits.

03 · PACKAGING & LOADING

Packed to arrive whole

Packaging standard

CARTONS	Five-ply corrugated, printed with design, size, shade and calibre codes; polythene or 10 mm EPE interlayers on polished faces.
PALLETS	ISPM-15 heat-treated (stamped) wooden pallets ~1,250 × 650 mm or ~1,000 × 1,000 mm, ~35 kg tare, loaded ~840–1,150 kg; plastic pallets on request.
SECURING	Corner boards and top caps, 2–3 rounds of PP / PET strapping, full stretch wrap. Boxes stacked on edge or flat as specified per size.
SLABS	800 × 2400 and larger in A-frames or wooden / iron crates, slabs on edge with protective sheets between faces.



Stuffing a 20ft: pallets tight, braced at the doors, photographed pallet by pallet.

Loading & breakage-prevention checklist

- [ ] Pallets loaded tight wall-to-wall; **airbags or dunnage** fill every void
- [ ] Timber or plywood **bracing at the doors**
- [ ] No more than two pallets high for 600 × 1200 and larger
- [ ] Slabs only on A-frames, never flat
- [ ] **Weight evenly distributed** front-to-back; VGM declared correctly
- [ ] Desiccant bags in the monsoon season (June–September)
- [ ] **Photos of every pallet**, a loading video, container and seal numbers sent to the buyer the same day
- [ ] Pre-shipment inspection: shade, calibre, planarity, chipping, carton condition
- [ ] Fumigation / ISPM-15 certificate issued for the pallets

Why it matters

With export-grade packing and correct stowage, in-transit breakage stays below 1 %. Flat-stacked cartons without interlayers commonly see 4–6 %, and poorly palletised loads 4–10 %. Shifting cargo causes around 30 % of in-container damage.



Sealed, documented and on board: risk passes to the buyer at FOB once goods are loaded.

04 · DOCUMENTS & CLAIMS

Paperwork that clears customs

Documents checklist

- ☐ **Proforma invoice** — HS code, sizes, grade, quantities in boxes / m², price, incoterm, payment terms, packing, shade & calibre tolerance, breakage policy
- ☐ **Commercial invoice** — Customs value at both ends; matches the shipping bill and any LC
- ☐ **Packing list** — Boxes per pallet, m², net / gross kg, container & seal numbers, batch / shade
- ☐ **Bill of lading / sea waybill** — "Shipped on board" date; original, telex release or sea waybill
- ☐ **Certificate of origin** — India: DGFT eCoO — preferential under CEPA (UAE), CETA (UK), ECTA (Australia), ISFTA (Sri Lanka) where eligible. China: certificate of origin issued in China
- ☐ **Insurance certificate** — For CIF: 110 % of CIF value, Institute Cargo Clauses (A)
- ☐ **Fumigation / ISPM-15** — Pallet stamp and treatment certificate (strict for Australia and USA)
- ☐ **Test reports** — EN 14411 / ISO 13006: water absorption, MOR, abrasion, slip — product-specific on request
- ☐ **Market conformity** — ECAS (UAE), SASO / SABER PCoC + SCoC (KSA), UKCA / DoP (UK), KEBS PVoC (Kenya)
- ☐ **VGM declaration** — Verified gross mass under SOLAS with weighbridge slip

Scanned documents are shared within 72 hours of sailing; originals by courier or telex release as agreed.

If something arrives damaged

1. Note any damage on the delivery receipt / EIR at devanning.
2. Photograph the intact seal and damaged pallets within 3 days.
3. Notify Vitrano, the carrier and the insurer in writing.
4. Insurer appoints a surveyor; claim file = survey report, packing list, invoice, B/L and photos.
5. Within the agreed 1–2 % allowance, no claim is needed; above it, Vitrano issues a credit note or replaces goods in the next container where the loading record shows correct stowage.

Plan your container with us

Send sizes, quantities and destination port — we return a loading plan with m², boxes, pallets and weights.

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> All figures in this guide are indicative and confirmed per order on the proforma invoice and packing list. Vitrano Morbi range ships FOB Mundra (India); Vitrano Foshan Collection is partner-made and ships FOB Nansha / Shenzhen (China), each with its true certificate of origin.