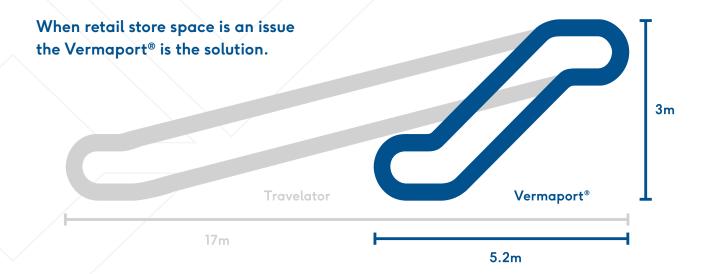


Vermaport® SC - Shopping Cart Conveyor - Why?

- To increase retail floor space
- To increase foot fall and traffic flow in store
- To increase profitability
- Safety

The Vermaport® SC has a proven track record of safety, improving the shopping/retail experience for customers and is a major influencing factor in increasing store sales and profits.

Existing customers have identified that any downtime of their Vermaport® SC has a major impact on the amount of cash going into the register. Several of our customers have Vermaports® which convey over 1 million shopping carts per annum in their stores.



Using a Vermaport® as opposed to a travelator enables you to save around 11.8 m2 of space

Peak Handling Capacity

1No. - Vermaport® SC 1No. -13 person 1000 kg (2200 lbs) lift 600-800 carts per hour 111 carts per hour (2 carts per journey)

Space Comparison

Vermaport® and escalator = 12m2

6x13P – Passenger lifts =32m2

Based on single direction journeys only (floor to floor of 3m). Having both directions will double the footprint of the Vermaport® and escalator, but will reduce the through put of carts by lift.

Payback calculations available from **vermaport.com** or contact our **Sales Team** for further information



Vermaport® Key Features

Energy Conservation – Through Timer / ECO Mode

After 60-90 seconds, the unit will automatically go into ECO Mode.

Cart/Shopper Segregation

In the event of any kind of emergency or disaster, shopping carts can be abandoned on the unit whilst Shoppers exit the store safely.

Safety Gates – Top & Bottom

Stops any unauthorised access onto the unit. Act as a barrier should there be any 'runaway' with the cart on the unit.

Auto STOP/START Controls

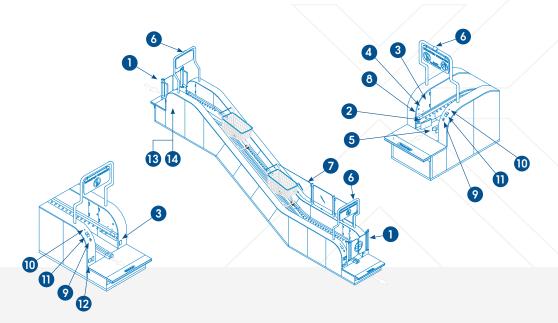
Allows the store to instantly STOP or RESTART the unit.

Longevity

Initial operational life of the units is 20-30 years, if maintained correctly.

Dual Drive

Motor and dual chain work together to assist the movement of the carts along the unit

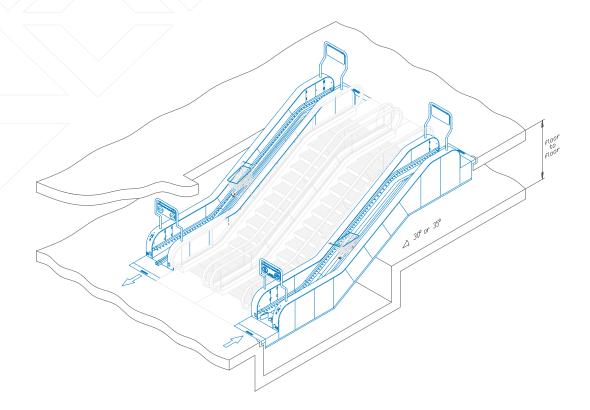


Safety Features (User) Operator Features

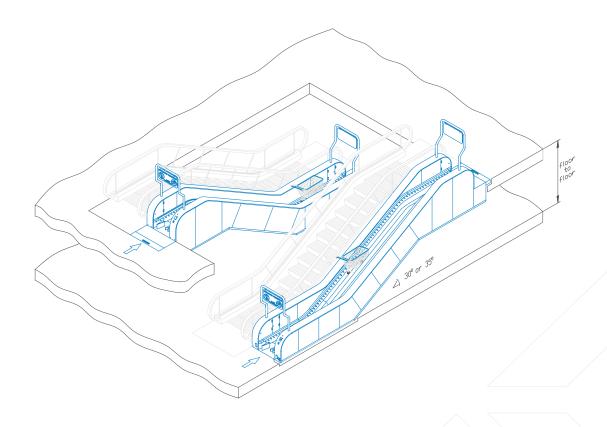
- Inlet/Outlet Gate stops any unauthorised entry onto the unit
- Cart Control Wedges Guides carts through the entrance, into correct position for alignment on the guide pin guide rail
- Light Beams detect entry of shopping cart in sequence allowing operation to commence also detects foreign object in the unit and STOPs operation
- Rear Leg Sensors detects rear leg of cart has entered unit, enabling the system to reset the Locker Pin ready for the next cart to enter
- Nested Cart Sensors will detect and STOP the unit should 'nested carts' try to enter the unit
- Portal Frame Signage works as a load limiter for shopping carts. Also shows Information on use of the unit
- Plexi-glass offered as an option. Acts as a deterrent/ guard for Shoppers should any stray or projectile object try to enter along the side of the units

- **Locker Pin** ensures that there is a safe gap between each shopping cart travelling on the unit. Should 'nesting' occur, the Locker Pin will engage and the cart with not operate
- **Yey Switch** located on the upper and lower frontage of the units
- LED Display displays any faults on the units with a digital number
- in a case of an emergency. Located at the top and bottom
- Chain Tension (Bottom) instant light indicator for tension of chains. GREEN tension OK. RED tension needs adjusting
- 13 Control Panel lockable control panel for easy access
- Drive Station allows easy access for maintenance of unit

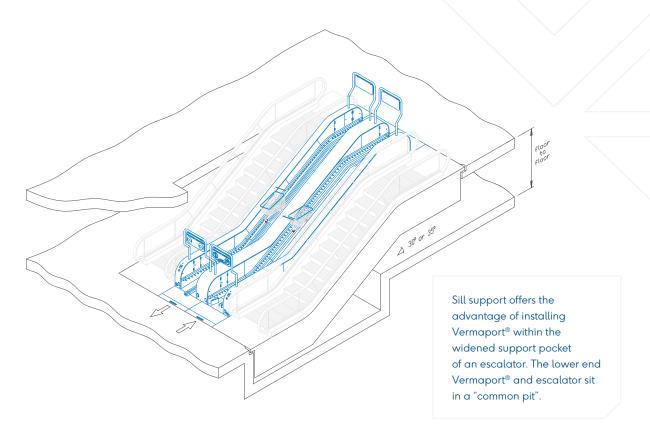
Vermaport® for installation alongside escalators



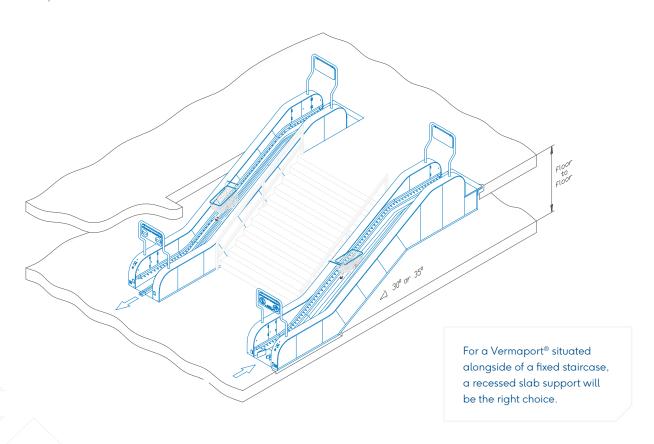
Vermaport® criss-cross arrangement for use with an escalator



Vermaport® for use between escalators

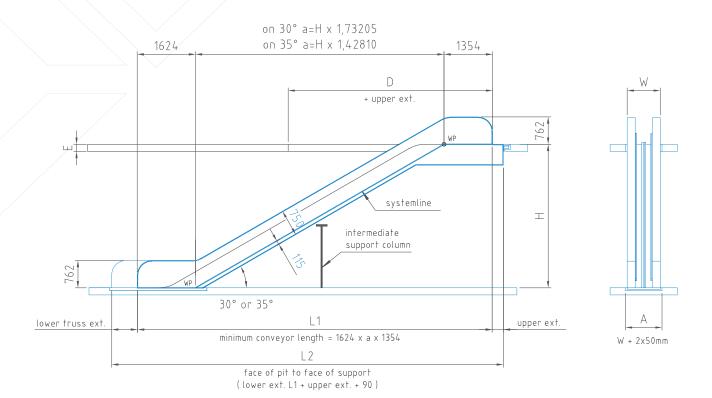


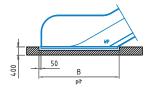
Vermaport® for use with staircase



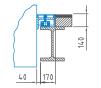
Technical Data

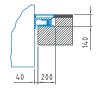
Technical data for a Vermaport® with recessed slab (Type R)











Lower recessed slab details

Concrete support beam

Steel support beam

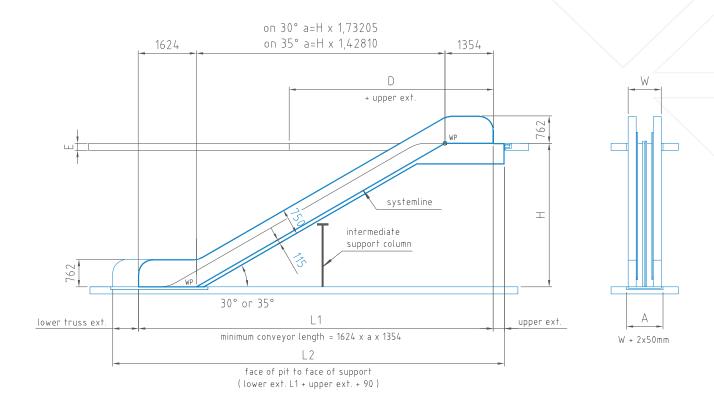
Support beam (seismic)

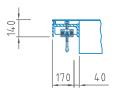
| H Floor to Floor | L1 Total Length | F1 Upper Force Reaction | F2 Lower Force Reaction | L1 Total Length | F1 Upper Force Reaction | F2 Lower Force Reaction |
|------------------|-----------------|--|----------------------------|-----------------|----------------------------|----------------------------|
| mm | mm | kN | kN | mm | kN | kN |
| 1000 | 4630 | 11.3 | 12.4 | 4326 | 10.7 | 11.8 |
| 1500 | 5496 | 13.1 | 14.3 | 5040 | 12.4 | 13.4 |
| 2000 | 6362 | 15 | 16.3 | 5754 | 13.9 | 15.2 |
| 2500 | 7228 | 16.8 | 18.4 | 6468 | 15.6 | 17.0 |
| 3000 | 8094 | 19.3 | 21.1 | 7182 | 17.8 | 19.3 |
| 3500 | 8960 | 21.1 | 23 | 7897 | 19.3 | 21.1 |
| 4000 | 9826 | 23 | 25.1 | 8611 | 20.9 | 22.8 |
| 4500 | 10692 | 25.4 | 27.8 | 9325 | 23 | 25.2 |
| 5000 | 11558 | 27.4 | 29.8 | 10039 | 24.7 | 27.0 |
| 5500 | 12424 | 29.2 | 31.8 | 10753 | 26.3 | 28.7 |
| 6000 | 13290 | 31.1 | 33.8 | 11467 | 28 | 30.5 |
| 6500 | 14156 | 32.9 | 35.9 | 12181 | 29.5 | 32.3 |
| 7000 | i | neights greater than 6. upport may be require | | 12895 | 31.1 | 33.0 |

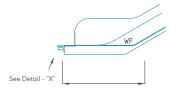
For floor to floor heights greater than 7m, intermediate support may be required

Technical Data

Technical data for a Vermaport® with sill support (Type S)







Lower support details

Pit Dimensions as per escalator

| H Floor to Floor | L1 Total Length | F1 Upper Force Reaction | F2 Lower Force Reaction | L1 Total Length | F1 Upper Force Reaction | F2 Lower Force Reaction | |
|------------------|-----------------|--|----------------------------|-----------------|----------------------------|----------------------------|--|
| mm | mm | kN | kN | mm | kN | kN | |
| 1000 | 4630 | 14.3 | 15.6 | 4326 | 13.7 | 14.9 | |
| 1500 | 5496 | 16.1 | 17.5 | 5040 | 15.4 | 16.7 | |
| 2000 | 6362 | 18.0 | 19.6 | 5754 | 16.9 | 18.5 | |
| 2500 | 7228 | 19.9 | 21.6 | 6468 | 18.5 | 20.2 | |
| 3000 | 8094 | 22.3 | 24.2 | 7182 | 20.6 | 22.6 | |
| 3500 | 8960 | 24.1 | 26.3 | 7897 | 2.6 | 24.4 | |
| 4000 | 9826 | 25.9 | 28.3 | 8611 | 23.9 | 26.0 | |
| 4500 | 10692 | 28.4 | 31.1 | 9325 | 26.0 | 28.4 | |
| 5000 | 11558 | 30.2 | 33.0 | 10039 | 27.7 | 30.5 | |
| 5500 | 12424 | 32.2 | 35.0 | 10753 | 29.3 | 31.9 | |
| 6000 | 13290 | 34.0 | 37.1 | 11467 | 30.8 | 33.7 | |
| 6500 | 14156 | 35.9 | 39.1 | 12181 | 32.5 | 35.4 | |
| 7000 | i | neights greater than 6. upport may be require | | 12895 | 34.2 | 37.6 | |

For floor to floor heights greater than 7m, intermediate support may be required

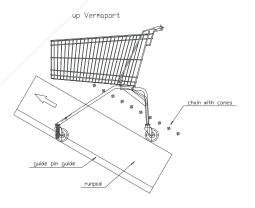
Shopping Cart Options

At Vermaport® we have already worked extensively with a large number of cart manufacturers throughout the world including Wanzl, Rehrig, Precision Wire, United Steel & Wire, Tote, Caddie, Versacart, Transcart, Clarecart and Siegel. These manufacturers have pre-approved carts which can be found on table 2 in appendix 1.

New carts and alternative carts can be checked and validated by our design office for suitability and use with a new or existing Vermaport®. We will check the geometry of the cart compared to the layout of the sensors and detectors to ensure correct operation. (It is advisable for Vermaport® to be consulted alongside the cart manufacturer for any new proposals.)



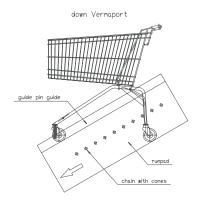
Typical acceptable cart (With guide pin)



Carts can be provided with fixed or revolving wheels. Fixed wheels are the preference for the Vermaport®. There is no requirement for the wheels to have brakes or braking options on them.



Not acceptable
(Due to underside tray)



Entry wedges are provided at the 'inlet' to the unit to centralise and position the guide via the front wheels. This also aligns the rear wheels as the cart completes entry into the unit. The wedges act as a safety barrier, potentially preventing non-compatible carts entering the unit.

Cart Safety

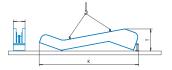
NO CART should have an underside tray or storage area beneath the basket or child stand plate

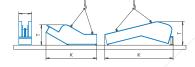
NO CHILDREN should be transported in the shopping cart during its transportation on the Vermaport®

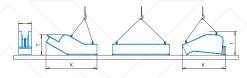
PARTICULAR REFERENCE SHOULD BE MADE TO HANDBAGS, ENSURING THAT ARE REMOVED FROM HANGERS ON CARTS WHILST CART IS TRAVELLING ON THE 'DOWN' VERMAPORT® UNIT.

Transportation & Installation Details

Vermaports® can be manufactured and transported in any number of pieces, but typically as a single piece unit, two pieces or three pieces (as per the sketches below).







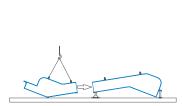
One piece (recessed)

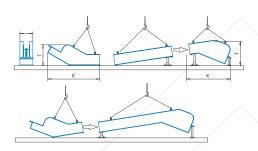
Two piece (sill support)

Three piece (sill support)

Typically, new units are shipped in open top containers for crane loading at the factory and removal of the sections at the job site. The multiple pieces allow for the movement of the unit around the job site whilst creating the least disruption possible.

Assembly is then carried out as per the sketches below, when the full unit is hoisted into the final position on site.





Vermaports® are shipped with all necessary stands and transportation brackets. Lifting of the Vermaport® must be done with the approved brackets provided by us. Any damage caused by lifting the unit without the appropriate bracketry will void any warranty on the product.

Dimensions & Weights for Shipping

The table shows the lengths, heights and weights of the average unit for 1000mm increments of floor to floor travel for both Recessed Slab (R) and Sill Support (S) units

| H Floor | | 30° R | | | 35° R | | | 30° S | | | 35° S | |
|----------------|---------|---------|--------------|---------|---------|--------------|---------|---------|--------------|---------|---------|--------------|
| to Floor mm | K mm | T mm | Weight kg |
| 1000 | 5000 | 1600 | 1800 | 4500 | 1620 | 1680 | 6300 | 1730 | 2340 | 6500 | 1670 | 2280 |
| 1500 | 6000 | 1680 | 2100 | 5500 | 1700 | 1980 | 7200 | 1810 | 2640 | 6800 | 1770 | 2520 |
| 2000 | 7000 | 1750 | 2460 | 6500 | 1770 | 2220 | 8200 | 1900 | 2820 | 7100 | 1970 | 2760 |
| 2500 | 8000 | 1780 | 2700 | 7500 | 1800 | 2460 | 9200 | 1950 | 3240 | 7900 | 2010 | 3000 |
| 3000 | 9000 | 1800 | 3060 | 8500 | 1820 | 2820 | 10200 | 1990 | 3600 | 9600 | 2060 | 3360 |
| 3500 | 10000 | 1830 | 3300 | 9500 | 1850 | 3060 | 11200 | 2010 | 3900 | 40500 | 2090 | 3600 |
| 4000 | 11000 | 1850 | 3600 | 10500 | 1870 | 3300 | 12100 | 2030 | 4200 | 11400 | 2120 | 3840 |
| 4500 | 12000 | 1860 | 3960 | 11500 | 1880 | 3660 | 13000 | 2040 | 4560 | 12200 | 2130 | 4200 |
| 5000 | 13000 | 1880 | 4260 | 12500 | 1900 | 3900 | 14000 | 2060 | 4860 | 13100 | 2150 | 4440 |
| 5500 | 14000 | 1890 | 4560 | 13500 | 1910 | 4140 | 15000 | 2070 | 5100 | 14000 | 2160 | 4680 |
| 6000 | 15000 | 1900 | 4860 | 14500 | 1920 | 4380 | 16100 | 2080 | 5400 | 14800 | 2170 | 4920 |
| 6500 | 16000 | 1920 | 5160 | 15500 | 1940 | 4620 | 16900 | 2100 | 5700 | 15700 | 2190 | 5160 |
| 7000 | | | | 16500 | 1960 | 4860 | | | | 16600 | 2200 | 5400 |

Assume 3 piece weights & dimensions as 2 piece for estimation purposes.

Table 1 Vermaport® traffic flow analysis

| Lif | t size | 8 | 10 | 13 | 16 | 21 | | |
|-----------------|-----------------|-----------------------------------|-----|-----|-----|-------------------|--|--|
| Floor a | rea (sq.m) | 1.66 | 2 | 2.4 | 2.9 | 3.56 5 | | |
| Cart capaci | ty (lsq.m/cart) | 1 | 2 | 3 | | | | |
| RTT journe | ey time (secs) | 60 | 65 | 65 | 70 | 75 | | |
| | | Shoppers and carts moved per hour | | | | | | |
| / / | 1 | 60 | 111 | 111 | 154 | 192 | | |
| Number of lifts | 2 | 120 | 222 | 222 | 308 | 384 576 768 | | |
| | 3 | 180 | 333 | 333 | 462 | | | |
| | 4 | 240 | 444 | 444 | 616 | | | |
| | 5 | 300 | 555 | 555 | 770 | 960 | | |

Table 2 Vermaport® manufacturers throughout Europe and USA

| Maker | Production | Factory No. | Basket capacity (ltr) | VPO | Drawing No. | Width |
|---------------------|------------|-------------|-----------------------|-----|-------------------------|-------|
| Europe | | | | | | |
| Wanzl | Germany | ELT-7 | 102 oder 152 | 24 | VPO.24.00.000.A3/00.II | 1058 |
| Wanzl | Germany | ELT-6 | 75 oder 90 | 29 | VPO.29.00.000.A3/00.I | 996 |
| Wanzl | Germany | ELT-9F | 185 | 50 | VPO.50.00.000.A3/00.II | 1152 |
| Caddie | France | 7.798.20.03 | 125 | 24 | VPO.24.00.000.A3/00.V | 1058 |
| Caddie | France | 7.798.01.03 | 100 | 24 | VPO.24.00.000.A3/00.IV | 1058 |
| Siegel | Germany | EKW-130 | 130 | 24 | VPO.24.00.000.A3/00.III | 1058 |
| Clarecart | England | 1001 | 180 | 39 | VPO.39.00.000.A3/00.I | 1101 |
| USA | | | | | | |
| United Steel & Wire | USA | 587-98 | 160 | 3 | VPO.35.00.000.A3/00.II | 1187 |
| United Steel & Wire | USA | 41-237-000 | 160 | 49 | VPO.49.00.000.A3/00.I | 1140 |
| Rehrig | USA | 2100-70 | 150 | 33 | VPO.33.00.000.A3/00.I | 1101 |
| Rehrig | USA | Vista | 190 | 58 | VPO.58.00.000.A3/00.I | 1185 |
| Precision Wire | USA | PS-771 | 165 | 36 | VPO.36.00.000.A3/00.I | 1101 |
| Technibilt | USA | 3541 | 190 | 53 | VPO.53.00.000.A3/00.I | 1187 |
| Tote | USA | 1010 | 140 | 48 | VPO.48.00.000.A3/00.I | 1070 |

Table 3 Dimensions for heights and angles of installation

| Floor | 30 R | | | 35 R | | | 30 S | | | 35 S | | |
|------------------|--------|--------|----------------|--------|--------|----------------|--------|--------|----------------|--------|--------|----------------|
| to floor (mm) | K (mm) | T (mm) | Weight (kg) |
| 1000 | 5000 | 1600 | 1800 | 4500 | 1620 | 1680 | 6300 | 1730 | 2340 | 6500 | 1670 | 2280 |
| 2000 | 7000 | 1750 | 2460 | 6500 | 1770 | 2220 | 8200 | 1900 | 2820 | 7100 | 1970 | 2760 |
| 3000 | 9000 | 1800 | 3060 | 8500 | 1820 | 2820 | 10200 | 1990 | 3600 | 9600 | 2060 | 8860 |
| 4000 | 11000 | 1850 | 3600 | 10500 | 1870 | 3300 | 12100 | 2030 | 4200 | 11400 | 2120 | 8840 |
| 5000 | 13000 | 1880 | 4260 | 12500 | 1900 | 3900 | 14000 | 2060 | 4860 | 13100 | 2150 | 4440 |
| 6000 | 15000 | 1900 | 4860 | 14500 | 1920 | 4380 | 16100 | 2080 | 5400 | 14800 | 21700 | 4920 |
| 7000 | * | * | * | 16500 | 1960 | 4860 | * | * | * | 16600 | 2200 | 5400 |

Technical Data

Vermaport® Ltd is the World's leading shopping cart conveyor manufacturer and supplier, it is now part of the Morris Vermaport group of businesses. The company continues to strive to enhance and expand the design and capabilities of its products.

Morris Vermaport have been associated with the Vermaport® for almost 40 years, having manufactured one of the original units in the UK. In 2013 the Morris Vermaport Group acquired all rights to the design and trademarks for the Vermaport® Shopping Cart Conveyor as well as the RS Luggage Cart Return System and the LC Luggage Cart Conveyor.

The Group now has added strength in both its key markets of Lifts and Cart Conveyors, with The Directors having over 50 years of experience in design, service, maintenance and repair of the associated equipment. Which is why the opportunity to purchase the Vermaport® Brand and add it to our existing portfolio was important to our organisation.

Our Product

The Vermaport® products are all bespoke units, individually designed to meet the clients cart and site requirements. They are manufactured to the highest of standards, to then meet the material finishes, specification and application requirements needs for its final installation. All units are fully assembled and tested before leaving the factory, to be shipped around the world.

Units can be manufactured for UP or Down applications, at a variety of angles from 25 to 35 Degrees and to be sited adjacent to Escalators or Stairs, with or without a "Pit". Units are shipped in an agreed number of pieces, to suit the needs of the site, from a single piece through to 3 pieces.

Vermaport® Units have now been installed in over 35 Countries throughout the World.

Our Team

Phillip Marsden

Managing Director

Luke Turton

Operations Director

Gavin Crossland

Projects Director





Vermaport® Units Are Sold Worldwide and Currently We Have Units in Over 35 Countries in Multiple Cities, in Excess of 450 Units Worldwide.

Contact us for more information

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