

WATER MANAGING FOUNDATION

DESIGN INSPIRATION & APPLICATION EXAMPLES



LIGHT-WEIGHT SUB-BASE REPLACEMENT

LOAD-BEARING CAPACITY FOR HEAVY TRAFFIC

REDUCE SUBSIDENCE AND GROUND MOVEMENT

RAINWATER MANAGEMENT

STORAGE & RE-USE

RETENTION, DRAINAGE & INFILTRATION

CALLE
CERVANTES

ALHAURIN
EL GRANDE

>50%

WATER REUSE FOR GREEN

140 L/m²

RAINWATER STORAGE

715 kN/m²

COMPRESSIVE STRENGTH

PAVED AREAS

COMBINING STRUCTURAL SUPPORT WITH RAINWATER STORAGE AND REUSE



BIKE PATHS

STRUCTURAL FOUNDATION REPLACEMENT | LESS
EXCAVATION | MINIMIZED ROOT DAMAGE



LIGHTWEIGHT ROAD CONSTRUCTION

LOW-DEPTH STRUCTURAL BUILD-UP | IDEAL
FOR UTILITY-CONGESTED AREAS



PARKING AREAS

DURABLE, LOW-EXCAVATION PARKING
AREA CONSTRUCTION WITH INTEGRATED
WATER MANAGEMENT





HARDSCAPE AND TREES

LOAD-BEARING FOUNDATION | IMPROVED
ROOT AERATION | BUILT-IN RAINWATER
STORAGE AND REUSE

TRAFFICKED PODIUM DECKS

IDEAL FOR TRAFFICABLE, LOAD-BEARING PODIUM DECK STRUCTURES



Finish

Aggregate installation

Sand

Separation textile

Aggregate

Permavoid installation

Finish

Sand

Separation textile

85mm or 150 mm units

Separation textile

Bedding layer

RAINWATER STORAGE & RE-USE.
DRAINAGE AND INFILTRATION OF RAINFALL.
REDUCE SUBSIDENCE AND GROUND MOVEMENT.

3 TONNES



80mm block

Private drives.
Car parks with height restrictions.

50mm sand bed

Separation textile

85mm or 150mm units

Reinforced pressure distribution textile



SIMPAVERDE

3 TONNES



30mm asphalt surface

60mm asphalt base

40mm type 1 sub-base

Private drives.
Car parks with height restrictions.
Includes for occasional/ accidental HGV overrun.

Separation textile

85mm or 150mm units

Reinforced pressure distribution textile



12 TONNES



30mm asphalt surface

90mm asphalt base

140mm type 1 sub-base

Car parks without height restrictions.
Includes for occasional/ accidental HGV overrun.
Suitable for access roads.

Separation textile

85mm or 150mm units

Reinforced pressure distribution textile

30 TONNES



200mm concrete slab

Car parks and access roads.
Includes for occasional/ accidental HGV overrun.

100mm type 1 sub-base

Separation textile

85mm or 150mm units

Reinforced pressure distribution textile

60 TONNES



200mm concrete slab

HGV park access and small estate roads (<15 mph)

200mm type 1 sub-base

Separation textile

85mm or 150mm units

Reinforced pressure distribution textile

60 TONNES



200mm reinforced concrete slab

Main roads.
Frequent HGV's.

200mm type 1 sub-base

Separation textile

85mm or 150mm units

Reinforced pressure distribution textile

FREEDOM TO DESIGN WITHOUT LIMITS

We support the integration of the system into your projects, including a free water assessment and provide guidance and training during (initial) installations to ensure optimal results

Simpaverde S.L.
info@simpaverde.es
(+34) 691 183 582

LET'S BRING YOUR VISION TO LIFE.