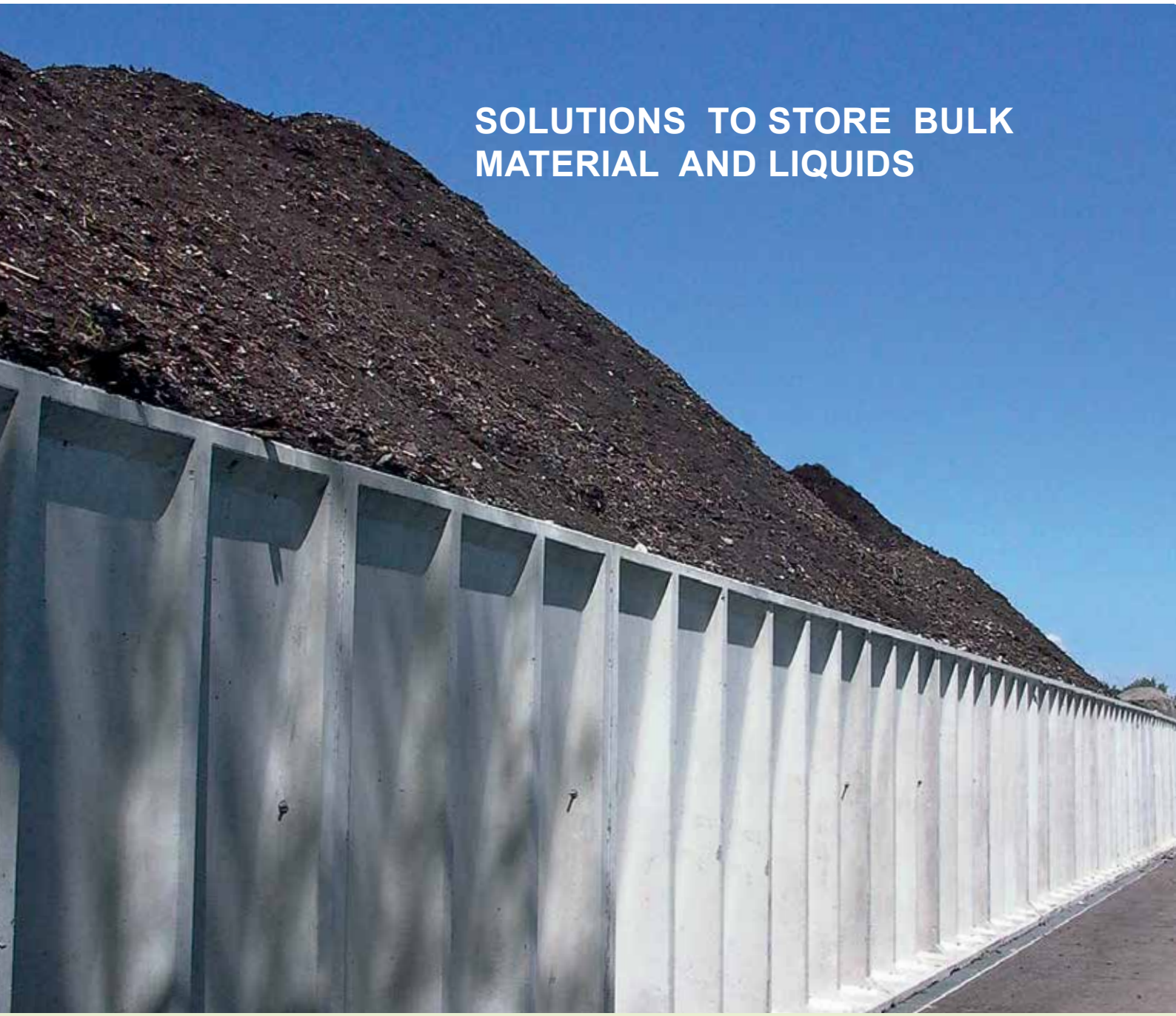
Edil Leca®



SOLUTIONS TO STORE BULK MATERIAL AND LIQUIDS

CE
1305-CPD-0184
1305-CPD-1053

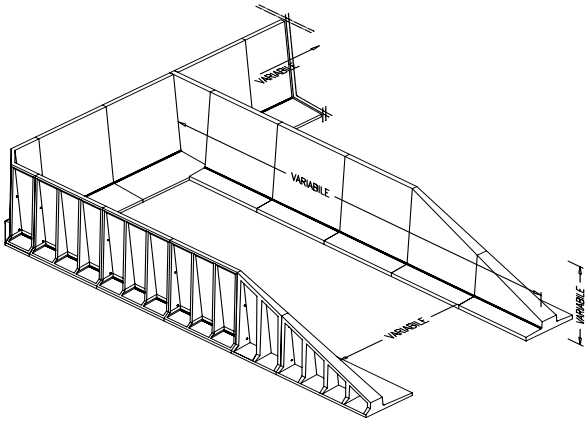
HORIZONTAL SILOS
PRECAST TANKS
MOVABLE SHEDS

INDUSTRY, RECYCLING
AGRICULTURE, BIOGAS, BIOMASS

HORIZONTAL SILOS

The horizontal silos are made up of precast modular elements in vibrated reinforced concrete that are easily posed on an existing concrete slab (if statically suitable). The precast elements are self-standing and load-bearing, they do not require foundations therefore they are simply posed on the existing floor allowing the construction of:
- Horizontal silos
- Storage boxes
- Containment walls
- Loading ramps
- Ecological islands

Horizontal silos are available in standard heights of: 1,00 m - 2,00 m - 2,72 m - 3,00 m - 3,50 m - 4,00 m - 5,00 - 6,00 m - 7,00 m - 8,00 m - 9,00 m (perimeter and partition walls) and in special pieces for corner units, junctions, terminals, etc. in order to build horizontal silos without further masonry work or additional casting work. They are a solution for horizontal storage problems for all bulk materials.



Edil Leca S.r.l. horizontal silos are manufactured with:
- High mechanical strength;
- High protection of reinforcement;
- High concrete exposure class (up to the maximum class XA3);
- subjected to self quality control in accordance with the law, and ensure greater acid resistance and durability;
- Minimum Environmental Criteria (CAM) certified products up to 20%.

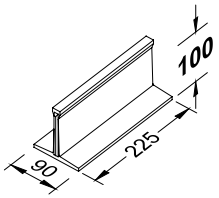
LOAD-BEARING, SELF-STANDING AND MODULAR MOBILE WALLS

The precast walls are guaranteed to withstand product weights of up to 1800 kg/m³ and the overloading of mechanical means for the accumulation and compaction of the products themselves.
EDIL Leca S.r.l. has been operating since 1996 with a quality system certified according to UNI EN ISO 9001 and CE-Marking in accordance with European Directives

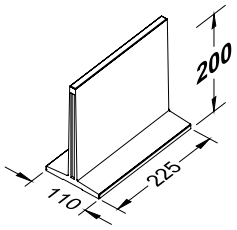
TYPE AND SIZES OF STANDARD ELEMENTS

SPECIAL CORNER, JUNCTION, END AND " MADE -TO- MEASURE" PIECES ARE ALSO AVAILABLE TO MEET ANY SPECIFIC REQUIREMENTS. ELEMENTS ARE PREPARED FOR THE APPLICATION OF SAFETY RAILINGS.

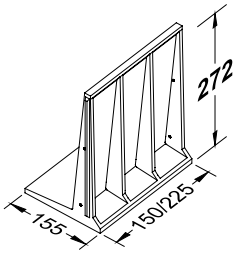
PARTITION WALL
H. 1,00 m



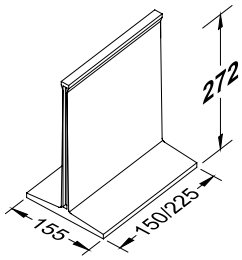
PARTITION WALL "SUPER"
H. 2,00 m



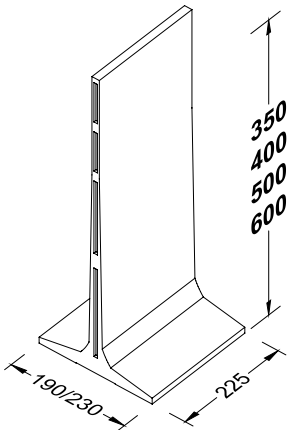
PERIMETER WALL
H. 2,72 m



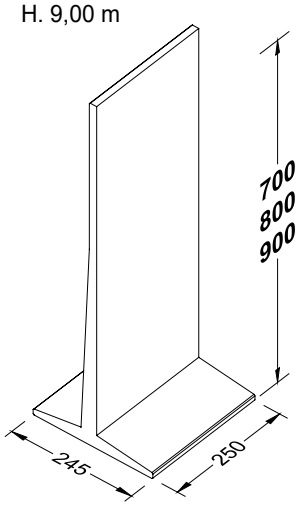
PARTITION WALL
H. 2,72 m



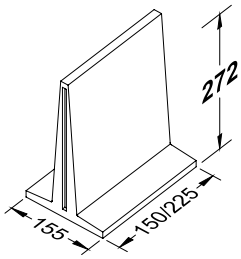
PARTITION WALL
H. 3,50 m
H. 4,00 m
H. 5,00 m
H. 6,00 m



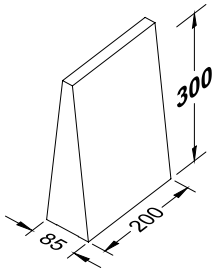
PARTITION WALL
H. 7,00 m
H. 8,00 m
H. 9,00 m



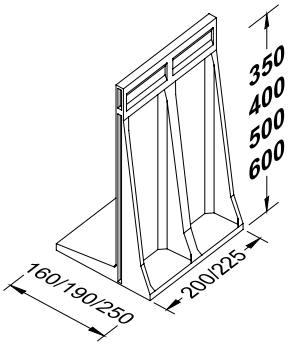
PARTITION WALL "SUPER"
H. 2,72 m



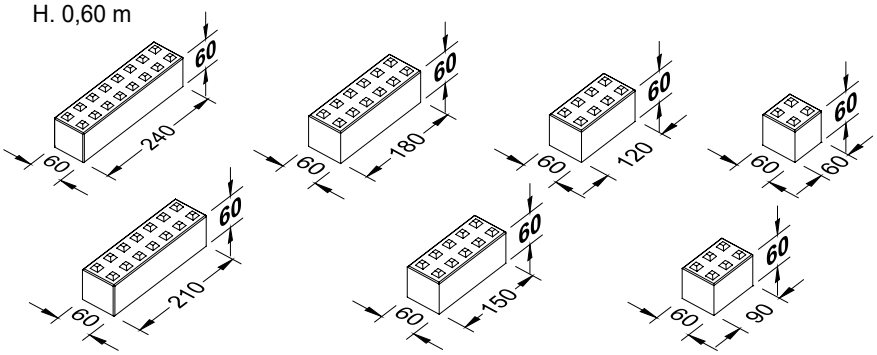
PARTITION WALL "SUPER" R.
H. 3,00 m



PERIMETER WALL
H. 3,50 m
H. 4,00 m
H. 5,00 m
H. 6,00 m



INTERLOCKING BLOCK
H. 0,60 m



IDEAL FOR STORAGE:

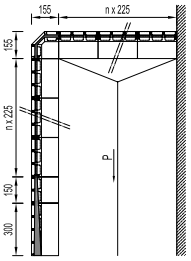
- livestock feed, cereals, biomass;
- slurry and manure in general;
- grains;
- fertilizers, potting compost, humus;
- inert materials;
- miscellaneousbuildingdemolition aggregates;
- glass, coal, metals, various minerals;
- process residues;
- chips,wood chips, pellets and sawdust;
- solid and non solid waste.

ADVANTAGES OF MOVABLE WALLS:

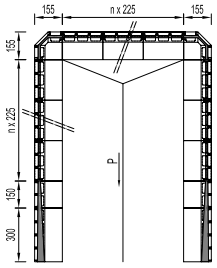
- Rapidity of accumulation and collection;
- Minimum cost per m³ of ensiled material;
- Possibility of increasing its capacity by adding new elements;
- recomposability in other configurations;
- possibility of being moved from one place to another within the farm;
- Rapidity of assembly and disassembly;
- Protection from aggressive materials with the highest exposure class of concrete;
- Fire resistance: REI120;
- compliant with the Minimum Environmental Criteria (CAM) required by law

SILOS CONFIGURATION SCHEME

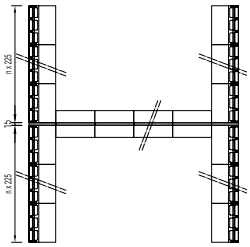
EXAMPLE FOR H 2,72 M



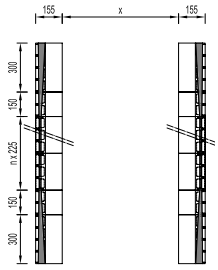
SILO ATTACHED TO EXISTING WALL



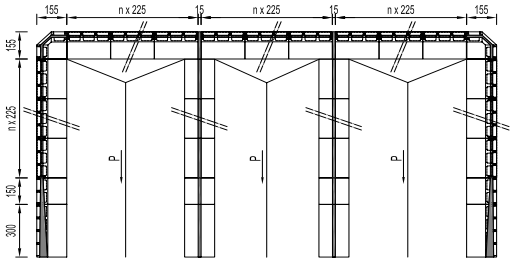
SIMPLE SILO



OPPOSITE SILOS



SIMPLE OPEN SILO



SIDE BY SIDE SILOS

The only work to be carried out is the support surface for the elements, which can also be an existing slab or floor. We recommend you follow the description found on the drawings.

WALL HEIGHT	REINFORCEMENT	MODULE LENGTH	LOADING	OVERLOADING	FIRE RESISTANCE	CAM
1,00 m	Reinforced	2,25 m	1800 Kg/mc	1000 Kg/mq	REI 60	19%
2,00 m	Reinforced	2,25 m	1800 Kg/mc	1000 Kg/mq	REI 60	19%
2,72 m	Reinforced	1,50 - 2,25 m	1800 Kg/mc	1000 Kg/mq	REI 120	19%
3,00 m	Reinforced	2,00 m	1800 Kg/mc	1000 Kg/mq	REI 120	19%
3,50 m	Reinforced	2,25 m	1800 Kg/mc	1000 Kg/mq	REI 120	19%
4,00 m	Reinforced	2,25 m	1800 Kg/mc	1000 Kg/mq	REI 120	19%
5,00 m	Reinforced	2,00 - 2,25 m	1800 Kg/mc	1000 Kg/mq	REI 120	19%
6,00 m	Reinforced	2,00 - 2,25 m	1800 Kg/mc	1000 Kg/mq	REI 120	19%
7,00 m	Reinforced	2,50 m	1800 Kg/mc		REI 120	19%
8,00 m	Reinforced	2,50 m	1800 Kg/mc		REI 120	19%
9,00 m	Reinforced	2,50 m	1800 Kg/mc		REI 120	19%

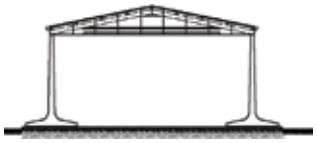
N:B: Elements with higher capacities or customized lengths can be ordered in order to meet all storage requirements

MOBILE SHED

STORING AND SEPARATING MATERIALS UNDER COVER

Maximum assembly and disassembly,speed, economy, flexibility of use. These, in a nutshell, are the qualities that characterise the mobile shed with self–stacking modular walls. It fully meets the growing need to store different types of materials. The mobile shed is built with load-bearing precast elements varying in height from 1.00 m to 9.00 m, equipped with: a hot-dip galvanized metal structure; single or multiple span roofing, tunnel roofing,or heavy carpentry pitched roofing. The roofing is realised with waterproof PVC sheeting of various types, with trapezoidal sheet metal or with insulated panels. The roofing structure can be of the fixed or cover / uncover type . The product can be successfully used on the most diverse occasions and in the most diverse sectors: from the agri–food industry, to construction, industry and the enviroment sector. Ideal for creating deposits or warehoiuses for storing loose products under cover.

EXAMPLE
Heavy steelwork-structure



EXAMPLE
light tunnel-shaped steel structure

PRECAST TANKS

Precast tanks are used as follows:
- in zootechnics to contain slurry;
- in industry in sewage treatment and liquid containment plants.

They are made up of modular elements, statically independent, that make it possible to create tanks with flat or lowered bottoms, in or above ground, in the following shapes:
- circular;
- elliptical;
- square or rectangular;
- multiple with internal partitions that make it possible to create 2 or more compartments.

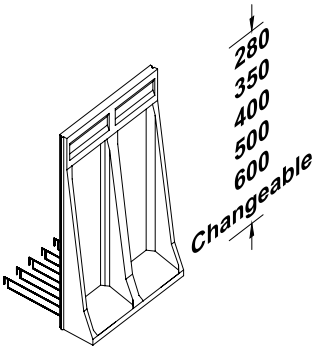
These precast tanks are best suited to specific needs and are therefore flexible and cost effective.
Our tank elements are industrially manufactured in the factory from special waterproofed concrete with low water-cement ratio, high-strength steel, well-spaced from the wall and special cements to obtain a concrete with the highest exposure class.
They are subject to strict quality controls and possess mechanical properties that are considerably higher than those achievable with in-situ cast tanks
For these reasons our tanks have:
- greater impermeability;
- considerably longer durability;
- resistance to chemical attack by aggressive products;
- Minimum Environmental Criteria (CAM) certified products up to 19%.

Finally, our tanks are made up of elements connected to each other by helical and watertight joints, which absorb dimensional shrinkage,thermo-hygrometric and settlement movements. For this reason they have an additional important feature: they don’t crack.

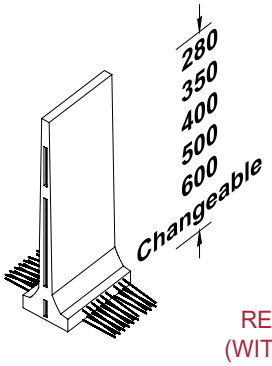
PRECAST BUNKER

SPECIAL CORNER AND INTERSECTION UNITS ETC. ARE AVAILABLE TO MEET EVERY NEED. THE WALLS MAY BE ARRANGED ALSO FOR SAFETY RAILINGS

PERIMETER WALL
H. 2,80-3,50-4,00-5,00-6,00 m - CHANGEABLE

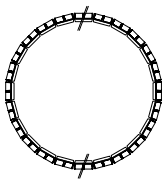


PARTITION WALL
H. 2,80-3,50-4,00-5,00-6,00 m - CHANGEABLE

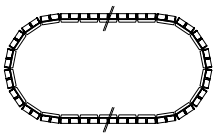


BUNKER DESIGN AND LAYOUT

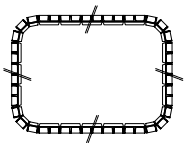
CIRCULAR



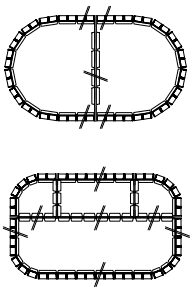
ELLIPTICAL



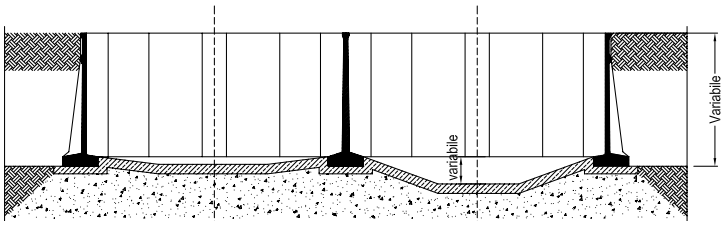
RECTANGULAR (WITH ROUNDED CORNERS)



MULTI-SHAPED



EXAMPLE OF LAYOUT OF BUNKER SILO OVER THE GROUND – PARTIALLY ON THE GROUND – ON THE GROUND



ICMQ
NORMA UNI EN ISO 9001:2015
CERTIFICAZIONE SISTEMA QUALITÀ
CERTIFICATO N. 96104
PROGETTAZIONE E PRODUZIONE DI ELEMENTI PER MURATURA ED ELEMENTI PREFABBRICATI

CE
1305-CPD-0184
1305-CPD-1053

he products of the precast division are classified “standard“ in accordance with the indications specified in the Ministerial decree D.M. 17/01/2018 and Edil Leca S.r.l. filed the dossier for the “declared standard” production at the Italian Federal Works Agency “Ministero dei lavori Pubblici” for the declared standard production.

HE CATALOGUE “HORIZONTAL SILOS – PRECAST BUNKER
Document of the Quality System
UNI EN ISO 9001

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Sostituisce:	2022-01
Numero di pagine:	6
Verificato e approvato da:	G. Zanon

PRECAST DIVISION

HORIZONTAL SILOS

PRECAST BUNKER

Edil Leca®

Head office and factory:

Via Pontebbana no. 5
33098 Valvasone Arzene (Pordenone) Italy
Phone: +39 0434 856 211
www.edilleca.com
prefabbricati@edilleca.com