

<b>CONTENTS</b>	<p>Consult all requirements. We have inside finishes and/or steels that are compatible with different products:</p> <ul style="list-style-type: none"> <li>• Fuels: <ul style="list-style-type: none"> <li>- Fuel oil, diesel oil, aviation fuel, bio-fuel, ad-blue ...</li> </ul> </li> <li>• Water: <ul style="list-style-type: none"> <li>- Cold water (food quality or non food quality), hot water...</li> </ul> </li> <li>• Chemical products: <ul style="list-style-type: none"> <li>Sulphuric acid, methanol, ethanol, E85...</li> </ul> </li> </ul>
<b>COMMON CONSTRUCTION CHARACTERISTICS</b>	<p>The tanks are built according to the following standards:</p> <p>Spanish Standards (UNE):</p> <ul style="list-style-type: none"> <li>• Tanks with a capacity of more than 3,000 litres: <ul style="list-style-type: none"> <li>- UNE 62350-1: Single wall tanks</li> <li>- UNE 62350-2: Horizontal double wall steel tanks</li> <li>- UNE 62350-3: Horizontal double wall steel-polyethylene tanks.</li> </ul> </li> <li>• Tanks with a capacity of up to 3,000 litres: <ul style="list-style-type: none"> <li>- UNE 62351-1: Single wall tanks</li> <li>- UNE 62351-2: Double wall steel tanks</li> <li>- UNE 62351-3: Double wall steel-polyethylene tanks</li> </ul> </li> <li>• Parallelepipedic above ground tanks with capacities of up to 2,000 litres: <ul style="list-style-type: none"> <li>- UNE 62352.</li> </ul> </li> </ul> <p>European Standard (EN)</p> <ul style="list-style-type: none"> <li>• Buried tanks: UNE-EN 12285-1</li> <li>• Above ground tanks: UNE-EN 12285-2</li> </ul> <p>(The characteristics of this catalogue correspond to tanks according to the Spanish UNE standard. Consult us for tanks according to European Standards, other standards, vertical tanks...)</p> <p>The tanks are built with rolled steel plate, according to EN 10025. The ends are in one single piece with diameters of up to 2,500 mm.</p> <p>They include reinforcement, under the inspection mouth, to protect from impacts with measuring rod.</p> <p>Compartmentation of tanks of any diameter.</p>
<b>CERTIFICATION</b>	<p>LAPESA supplies all of its tanks with inspection certificates according to UNE standards. At the customer's request a coating porosity test certificate, issued by LAPESA, can be provided.</p>
<b>SURFACE FINISHES TO ORDER</b>	<p>To order, we can supply our thick polyurethane finish for buried tanks in thicknesses of up to 2 mm.</p> <p>Also to order we can supply inner finishes for aggressive contents.</p> <p>Special treatment for storage of ad-blue.</p>
<b>OPTIONS</b>	<p>Our catalogue shows a wide range of models with capacities from 1,000 to 120,000 litres, with different options and accessories for each of them.</p> <p>If you have any other specific requirements please consult us.</p>
<b>ACCESSORIES</b>	<p>We have a series of accessories available, among which are access chambers, covers, cathodic protection anodes, leak detectors, level control equipment, prefabricated access chambers, double-locking foot valve (own design), anchorages, transfer equipment, etc. to facilitate and complete the installation.</p>
<b>TRANSPORT</b>	<p>We have our own fleet of trucks, of various capacities, all of which are equipped with cranes for unloading and are handled by highly specialised personnel to guarantee the best service for the transport and handling of the tank.</p> <p>We can place the tank inside the pit if the surrounding terrain allows the truck to position correctly.</p> <p>To protect the tank coating, support wedges are included to prevent it rubbing on ground and the trucks do not have high sides.</p>
<b>INSTALLATION</b>	<p>In no case does LAPESA install tanks.</p> <p>Installation should be carried out by a fitter, according to the following standards:</p> <ul style="list-style-type: none"> <li>- UNE 109500 IN: Installation of non-buried parallelepipedic steel tanks.</li> <li>- UNE 109501 IN: Installation of steel tanks above ground or in pit.</li> <li>- UNE 109502 IN: Installation of buried steel tanks.</li> </ul> <p>The location of the anchoring bolts should be checked against the tank. The bolts should never be embedded without checking previously against the tank.</p>
<b>TOLERANCES</b>	<p>According to applicable construction norms</p>

# ATMOSPHERIC TANKS

## SINGLE WALL tanks for buried installation

**lapesa**

### LF\*\*\* Models

#### Tanks built in steel plate

- Dimensions and features in accordance with EN 12285
- High mechanical strength steel according to EN 10025 Standard (carbon steel or stainless steel to order)
- Zinc-plated steel bolts at inspection manholes

#### Standard surface finishes

Exterior:

- Blasting to SA 2-1/2 grade.
- Thick polyurethane coating, minimum thickness 600 microns which guarantees electric test voltage >15 KV.
- Coating is highly resistant to corrosion of any origin and to liquid fuel spillages.
- This type of finish gives the tank an unbeatable external appearance.
- External protection can be increased by the use of cathodic protection anodes (see accessories)

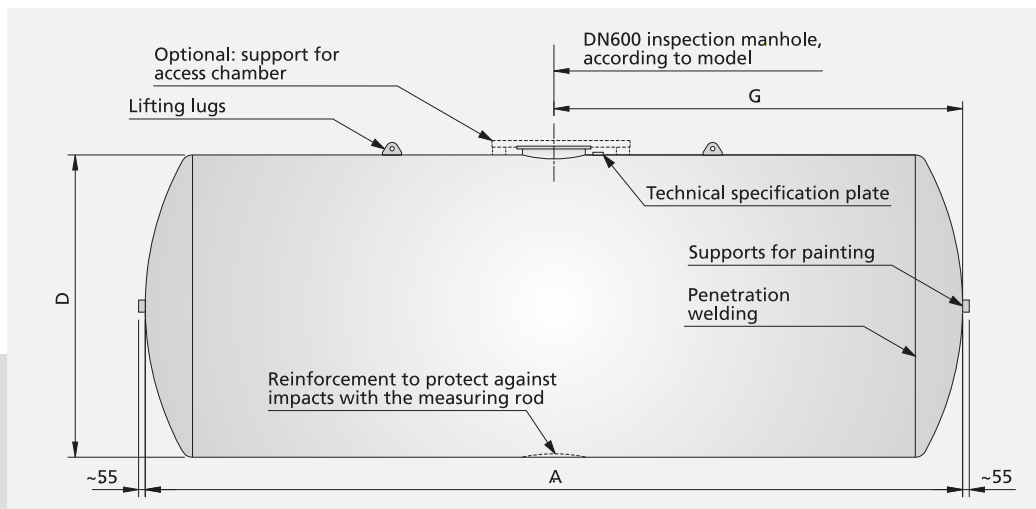
Interior:

- Clean

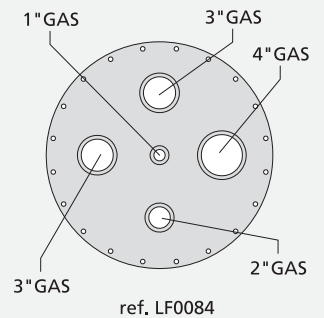
Other executions (to order):

- Storage tank in stainless steel.

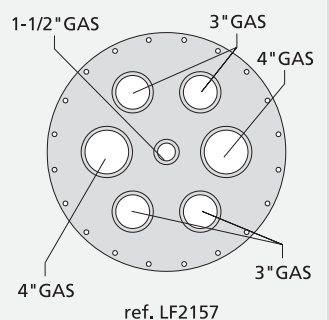
Interior finishes for specific contents: ad-blue, methanol, ethanol, aviation fuel, sulphuric acid, food quality cold water...



STANDARD MANHOLE COVER, NOMINAL DIAMETER 600



STANDARD INSPECTION MANHOLE COVER, NOMINAL DIAMETER 600



#### Characteristics Table

Rated capacity (litres)	Model Ref.	Approximate empty weight (Kg)	D	Dimensions (mm.) A	G
1000	LF 1000 (*)	160	856	1900	630
1500	LF 1500 (*)	220	1200	1500	750
2000	LF 2000 (*)	280	1200	1900	950
3000	LF 3000	430	1500	1990	1000
5000	LF 5000	740	1750	2340	1170
7500	LF 7500	950	1750	3400	1170
10000	LF 10	1200	1750	4550	1170
15000	LF 15	1850	2200	4300	3370
20000	LF 20	2250	2500	4600	1940
25000	LF 25	2650	2500	5580	2790
30000	LF 30	3000	2500	6580	3290
40000	LF 40	3800	2500	8560	3930
50000	LF 50	4650	2500	10740	5370
60000	LF 60	5500	2500	12720	5900
80000	LF 80	8550	3000	12090	6520
100000	LF 100	10550	3000	14840	7420
120000	LF 120	12250	3000	17590	9270

Other options:

- Covers with special connections.
- Additional inspection manhole.
- Tanks with several interior compartments.
- Other coating thicknesses (up to 2 mm.)

Transport:

To protect the coating of the tanks support wedges are used to prevent rubbing on ground and the trucks do not have high sides.

# ATMOSPHERIC TANKS

## DOUBLE WALL STEEL-STEEL tanks for buried installation

**lapesa**

### LFD\*\*\* Models

#### Interior and exterior tank in carbon steel (tank with spill containment included)

- Internal tank according to page 3.
- Dimensions and features in accordance with EN12285
- Zinc-plated steel bolts and screws at inspection manholes.
- Vacuum chamber between both walls to detect leaks (See detection devices).
- No civil works required for leak-proof containment. The double wall acts as a containment means.
- Tank built in EN 10025 standard steel (carbon steel or stainless steel to order) with high mechanical and deformation strength that enables it to absorb impacts, vibrations (transit of vehicles, etc.) or moderate earth movements. Adequate resistance to modern additives (alcohols, etc.)

#### Standard surface finishes

##### Exterior:

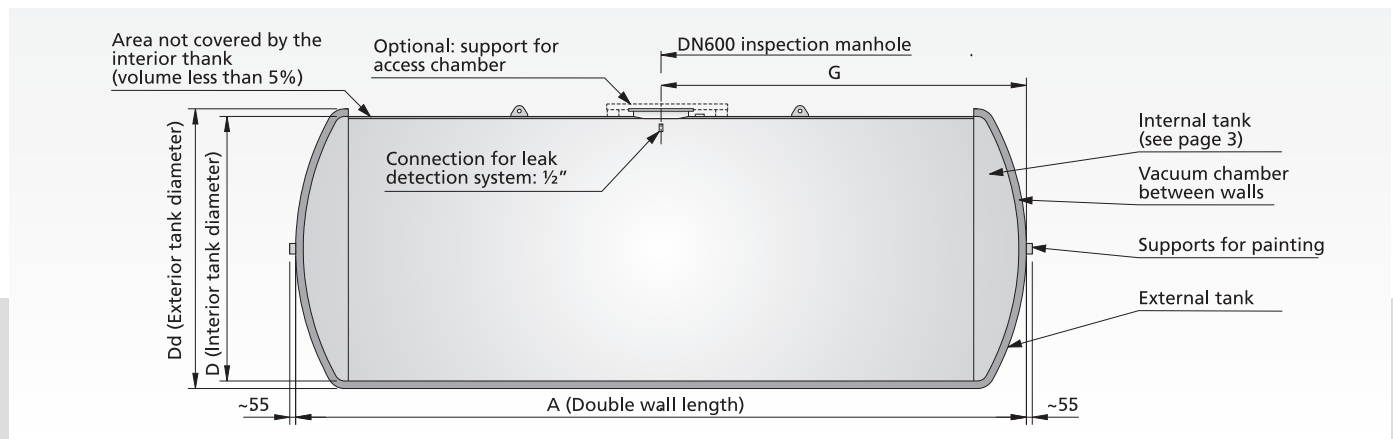
- Blasting to SA 2-1/2 grade.
- Thick polyurethane coating, minimum thickness 600 microns which guarantees electric test voltage >15 KV.
- Coating is highly resistant to corrosion of any origin and to liquid fuel spillages.
- This type of finish gives the tank an unbeatable external appearance.
- External protection can be increased by the use of cathodic protection anodes (see accessories)

##### Interior:

- Clean.

##### Other executions (to order):

- Storage tank in stainless steel.
- Interior finishes for specific contents: ad-blue, methanol, ethanol, aviation fuel, sulphuric acid, food quality cold water.



#### Characteristics table

Rated capacity (litres)	Model Ref.	Approximate empty weight (Kg)	D	Dimensions (mm.)	G
1500	LFD 1500	350	1200	1510	760
2000	LFD 2000	450	1200	1910	960
3000	LFD 3000	700	1500	2000	1000
5000	LFD 5000	1100	1750	2350	1170
7500	LFD 7500	1500	1750	3410	1170
10000	LFD 10	1900	1750	4560	1170
15000	LFD 15	3000	2200	4310	3380
20000	LFD 20	3700	2500	4610	1950
25000	LFD 25	4550	2500	5590	2790
30000	LFD 30	5000	2500	6590	3290
40000	LFD 40	6250	2500	8580	3930
50000	LFD 50	7800	2500	10750	5370
60000	LFD 60	9050	2500	12730	5910
80000	LFD 80	13300	3000	12110	6520
100000	LFD 100	15850	3000	14860	7430
120000	LFD 120	18150	3000	17610	9270

**Standard supply:** see Single wall tanks, page 3

**Other options:** see page 3

##### Leak detection:

- Standard supply: as shown in diagram, for vacuum detection of leaks
    - Vacuum carried out at factory.
    - Accessories fitted (compound gauge and shutoff cock)
  - Optional supplies:
    - Chamber filled with glycol mix (for liquid leak detection)
- Vacuum, pressure or liquid leak detection equipment. (See page 10)

##### Transport:

To protect the coating of the tanks support wedges are used to prevent rubbing on ground and the trucks do not have high sides.

