CE marking CE 22

Declaration of performance No. **KK-CPR-2022-0725**

Annex document
DDT N° 634
Date
24/11/2022
Signature for receipt:

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1. Unique identification code of the product-type: **KK-CPR-2022-0725**
2. Intended uses: **KORB KULTUR BOX (KK) welded mesh gabions are intended to be used to build fences and for architectural applications. The use of welded mesh gabions should be outside the influence of corrosive soils and chemical substances considered corrosive for steel and steel products.**
3. Manufacturer:

Metallurgica Ledrense Soc. Coop - Ledro Steel
Via Ampola 14 - IT-38067 Ledro (TN)

4. VVCP System: **Sistema 2+**
5. European Assessment Document: **EAD 200020-00-0102 (march 2017)**
   European Technical Assessment: **ETA-17/0059 (07/07/2022)**
   Technical Assessment Body: **ETA-Danmark A/S**
   Notified Body: **N°1404 – Zavod Za Gradbeništvo Slovenije**
6. Declared performances:

Essential characteristic	Performance
3.1 Basic Works Requirement 1: Mechanical resistance and stability	
Diameters of wire	6 mm in accordance with EN 10218-2, Table 1, Tolerance Class T1
Wire tensile strength and elongation	Wire tensile strength > 500 MPa according to the pt. 3 of the EN 10218-1 with the limitations given in the pt. 7.4 of the EN 10223-8 after the cold worked processing: -tensile strength: 553 MPa (mean value) -elongation: 6,47% (mean value)
Dimensions of product, mesh size and dimensions of connection components	Please refer to Annex A of this document
Corrosion protection	The steel wires are zinc aluminum alloy coated with minimum 290 g/m2 coating corresponding to class A in accordance EN 10244-2
Weld shear strength	The average shear strength of four welds selected randomly from one panel shall not be less than 75% of the breaking load of the wire with no single shear strength of weld below 50% in accordance with cl.7.5 in EN 10223-8
Tensile strength of gabion/mattress including connection	No performance assessed
Durability	Durability against neutral salt spray test. The products were subjected to a test duration of 1000 hours and showed less than 5% dark brown rust
3.4 Basic Works Requirement 4: Safety and accessibility in use	
Protection against injury	The gabion poses no obvious risk of injury caused by sharp edges of jut out wires.
3.5 Basic Work Requirement 5: Protection against noise	
Airborne sound insulation	No performance assessed
Sound absorption	No performance assessed

The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with Regulation (EU) No. 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer from:

Fabio Tiboni, legale rappresentante

METALLURGICA LEDRENSE soc.coop.
Via Ampola n. 14
38067 LEDRO (TN)
Partita Iva 01084660222

Ledro (TN), 25/07/2022

(date and place)

ANNEX A

Description of the Korb Kultur gabions and its components

The Korb Kultur gabions have parallelepiped or cube shape. The gabions are composed of, see fig. n° 1:

- Lateral panels Korb Kultur.
- Top panel Korb Kultur.

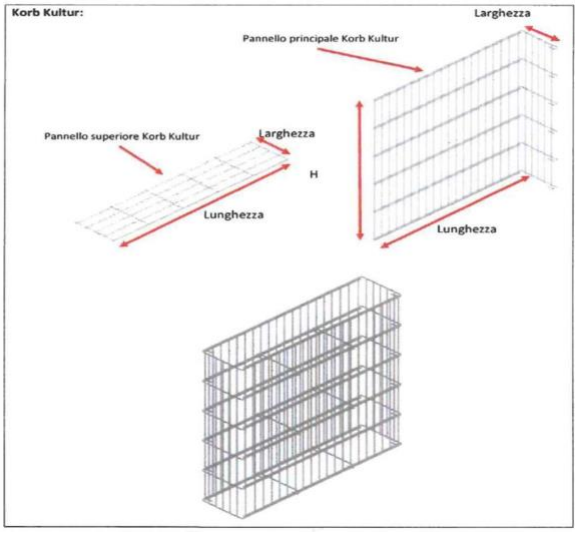


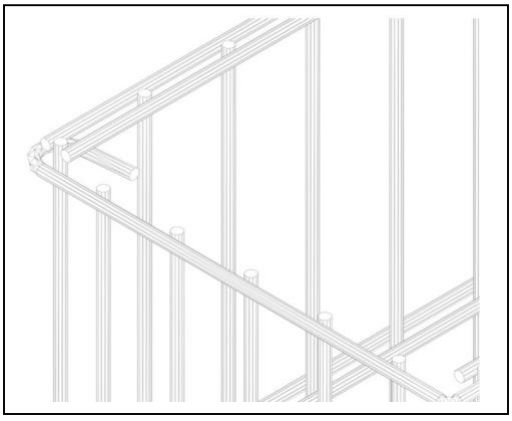
Fig. n° 1

All the elements above are made of double steel wire 6 mm diameter horizontally (except for the L shaped angles, with single wire) and single steel wire 6 mm diameter vertically for the side panel. Single steel wire 6mm diameter in both directions for the top panel. See figure n° 1.

All the components and accessories needed for the lifting and movimentation of the products go beyond the scope of this ETA.

The steel wires are zinc-aluminum alloy coated with minimum 275 g/m2 coating for wires with diameter 3.80-4.40 mm and minimum 290 g/m2 coating for wires with diameter 5.20-8.20 mm corresponding to class A in accordance with EN 10244-2. See figure n° 2.

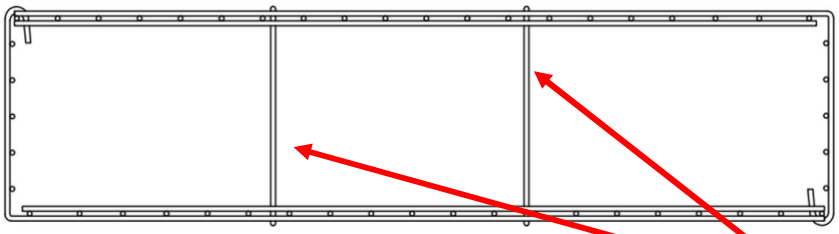
Figure n° 2



The Korb Kultur top panel is connected to the lateral panels through metal rings.

The stiffeners horizontally connect the Korb Kultur laterals panel in numbers and positions as indicated in the informations provided by the producer, mainly depending on the gabion sizes.
See figure n° 3.

Section:



Perspective view:

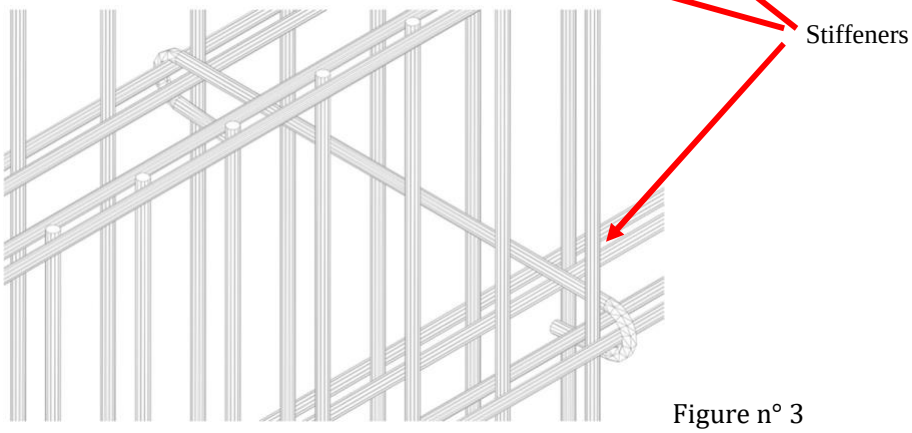


Figure n° 3

All the hooks and stiffeners are designed to give stability and structural resistance at the gabions for the movements and placement phases, and ensure the monolithic behavior of the gabions.

Korb Kultur gabions are produce in the sizes:

KORB KULTUR GABIONS			
Commercial name (HxLxW)	**Nominal dimensions (mm)**		
	H	**L**	**W**
100x100x25	1005	1010	260
120x100x25	1205	1010	260
140x100x25	1405	1010	260
160x100x25	1605	1010	260
180x100x25	1805	1010	260
200x100x25	2005	1010	260
100x200x25	1005	2010	260
120x200x25	1205	2010	260
140x200x25	1405	2010	260
160x200x25	1605	2010	260
180x200x25	1805	2010	260
200x200x25	2005	2010	260

The Korb Kultur accessories are described as follows:

KORB KULTUR GABIONS LATERAL PANELS			
Commercial name (HxLxW)	**Nominal dimensions (mm)**		
	H	**L**	**W**
100x100x25	1005	1000	260
120x100x25	1205	1000	260
140x100x25	1405	1000	260
160x100x25	1605	1000	260
180x100x25	1805	1000	260
200x100x25	2005	1000	260
100x200x25	1005	2000	260
120x200x25	1205	2000	260
140x200x25	1405	2000	260
160x200x25	1605	2000	260
180x200x25	1805	2000	260
200x200x25	2005	2000	260

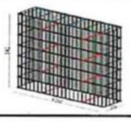
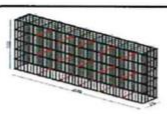
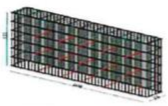
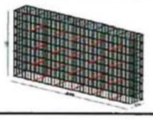
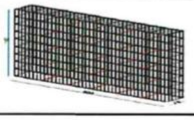
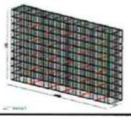
KORB KULTUR GABIONS TOP PANELS		
Commercial name (WxL)	**Nominal dimensions (mm)**	
	W	**L**
21x100	210	1000
21x200	210	2000

KORB KULTUR GABIONS Stiffeners	
Commercial name	**Nominal dimensions (mm)**
260	260

KORB KULTUR GABIONS Mesh		
Commercial name (MxN)	**Nominal dimensions (mm)**	
	M (vertical)	**N** (horizontal)
200x45	200	45
200x50	200	50
200x55	200	55
200x60	200	60
195x50	200	50

WIRES	
Commercial name	**Nominal diameter (mm)**
6	6,00

TIRANTI INTERNI NECESSARI

Tipo Gabbia	N. Tiranti	Misura Tiranti	Posizione
GABBIA 100 X 25 X 100	6 PZ.	25 CM.	
GABBIA 100 X 25 X 120	6 PZ.	25 CM.	
GABBIA 100 X 25 X 140	8 PZ.	25 CM.	
GABBIA 100 X 25 X 160	8 PZ.	25 CM.	
GABBIA 100 X 25 X 180	10 PZ.	25 CM.	
GABBIA 100 X 25 X 200	10 PZ.	25 CM.	
GABBIA 200 X 25 X 100	15 PZ.	25 CM.	
GABBIA 200 X 25 X 120	15 PZ.	25 CM.	
GABBIA 200 X 25 X 140	20 PZ.	25 CM.	
GABBIA 200 X 25 X 160	20 PZ.	25 CM.	
GABBIA 200 X 25 X 180	25 PZ.	25 CM.	
GABBIA 200 X 25 X 200	25 PZ.	25 CM.	

Instructions and information for the proper movement, storage, transportation, assembling and laying. ETA 17/0059
Section 11 paragraph 6 of UE 305/2011 Regulation

1. **Usage destination of the product:** The gabion is destined to be used for retaining structures, earth retention and reinforcement river training, erosion control, free-standing walls and architectural claddings.

2. **Handling:** The filled gabion cannot be moved, for practical purposes the panels need to be moved singularly. During the handling, lifting and transport operations of the panels, their integrity must be guaranteed, avoiding shocks, tears or other causes of damage. All operations must be performed in compliance with the provisions of Legislative Decree no. 81/08 and subsequent updates.

3. **Lifting:** The filled gabion cannot be lifted, for practical purposes the panels need to be lifted singularly. The panels must be hoisted, on appropriate wooden platforms, by machines equipped with a load securing device such as, for example, a hook. To the sealing device, steel chains or ropes, equipped with adequate lifting accessories, able to withstand the stresses induced by the weight of the manufactured articles, must be fixed jointly, respecting the directive 2006/42 / EC. All operations must be performed in compliance with the provisions of Legislative Decree 81/08 and subsequent update.

4. **Transportation:** The filled gabion cannot be moved, for practical purposes the panels need to be lifted singularly. During the transport the individual components of the gabions must be placed on appropriate wooden platforms, positioned in a stack and secured to the vehicle with suitable cables, in compliance with the regulations governing the safety of transport and those of the Highway Code.

5. **Storage:** The storage of the individual panels that compose the gabion must take place placing them in piles made up of successive layers resting on wooden platforms. The heap laying surface must be levelled and compacted. All operations must be performed in compliance with the indications of d.1gs. 81/08 and subsequent updates.

6. **Installation:** for the installation, gabions have to be positioned in plan and in assess as verified from the general planner of the structures (Law 5/11/71 n 1086- norm3/9) without exceeding the permitted loads. All the operations have to be performed according to the indications of D.lgs. 81/08 and subsequent updates.

7. **Use and maintenance:** eventual information about the use and maintenance has to be edited by the general planner of the structures, in the maintenance plan of the work, and from the safety coordinator, in the work file. It is however necessary that the use and maintenance of the gabion is appropriate to the intended use of the project, without exceeding the admissible loads.

8. **Instruction for the correct assembling of the gabions:** gabions are made by panels that have to be connected with the specific hook they are equipped with. For assembling details references should be made to the complete information available with a simple request to Metallurgica Ledrense Soc. Coop. Are available at the following link: **www.ml-ita.com**