



# Encho Enchev - ETE Ltd.

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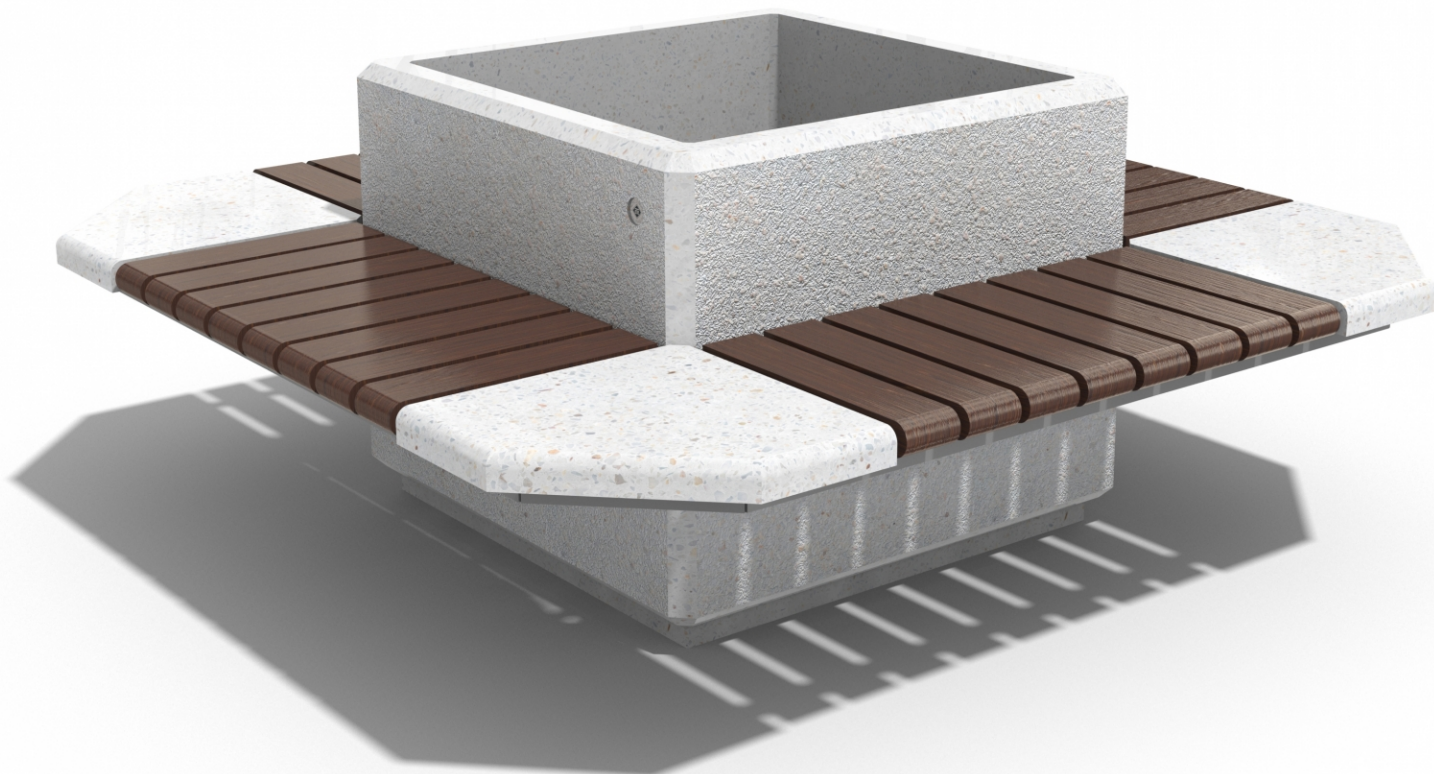
## TECHNICAL SPECIFICATION



of

Concrete products from high-performance concrete - elements  
for landscaping streets, parks and gardens

### ***1.Product -Square planter bench Model 227***





## **1. Description of the product**

### **1.1 General description of the product:**

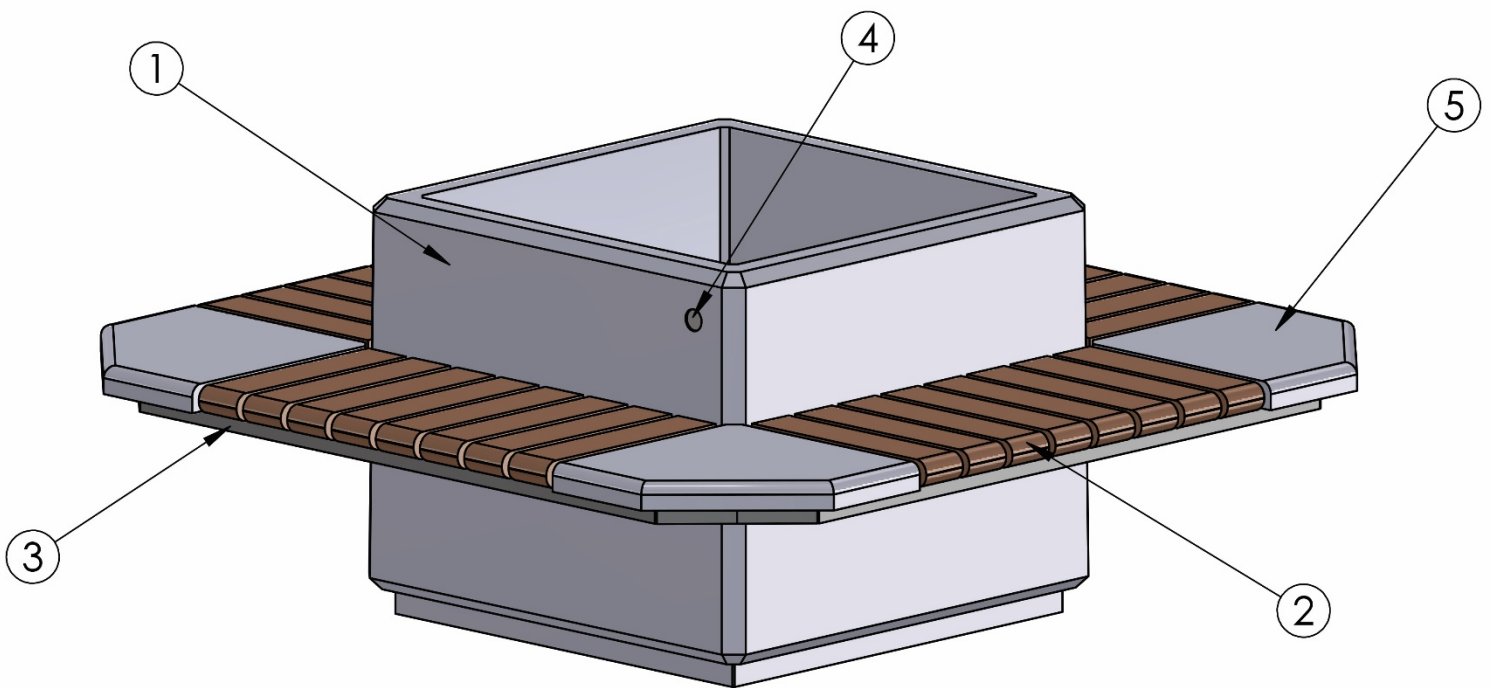
A model from the designer range of flower planters with benches by Encho Enchev-ETE, which combines the beauty of the native materials used and the nature, creating style and comfort in the modern city. The planter is made out of high-performance, reinforced, fibre concrete with natural aggregate. The aggregate structure is made of marble or granite stones with certain sizes and the possibility of different colour combinations. A series of special technological treatments of the aggregate structure create a surface with characteristic relief. The wooden elements for the bench are made of soft wood - spruce. In the four corners of the planter, concrete segments with a polished aggregate surface are added to the bench. A protective coating is applied to the certified wood and concrete, which makes the product even more resistant to aggressive weather conditions. The metal components involved in the construction are coated with ester-epoxy zinc primer and are powder coated. Straight and clean lines as well as possible colour combinations between aggregate and wood complement the features and provide fresh ideas for stylish arrangement of buildings, landscapes, various open spaces, parks, streets and gardens.



1.2 Description of the main components of the product:

The concrete bench consists of: **1. Concrete planter**; **2. Planks\***; **3. Metal construction and fasteners**; **4. Marking logo**; **5. Concrete elements\***; (**Figure 1**)

\* seating area



**Figure 1**



1.3 Description of the main materials of the product:

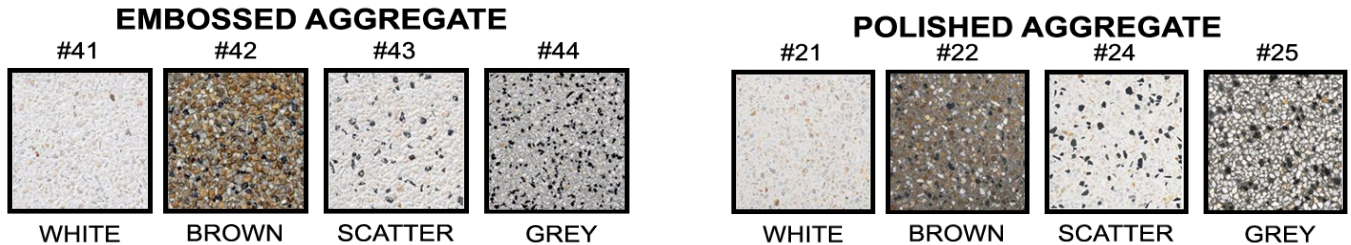
**Concrete**

High quality gray or white Portland cement is used in the production of the high-performance concrete (HPC) in combination with natural marble or granite aggregates and inert materials. The concrete structure is reinforced. Concrete is recyclable due to the absence of resins and adhesive polymeric agents.



**Natural marble aggregates**

The aggregates are a mixture of multi-colored, natural, marble or granite stone fractions with Portland cement and inert materials. The particles have selected structural characteristics and are available in various combinations with grey or white Portland cement, depending on their properties and requirements for the manufacture of the products. Embossed structure of the aggregate.





## **Wood/Timber**

Wood is a natural material and every beam/plank is not identical to the others, and there may be slight differences in the appearance of the woodthread, the tone and the natural imperfections, despite the processing. As the weather changes (hot climate, dry climate, humid climate, cold climate), the wood structure changes and can increase or decrease its volume, causing cracks or fissures. Although it is a natural process, it should be noted.

Spruce is offered as solid wood with a selected part of the structure of the tree. The wood is treated with high-performance impregnators and water-based varnishes that extend the life of the wood and slow down the aging of the material. This procedure does not cancel the subsequent periodic maintenance of the timber in order to keep its quality for as long as possible.

Color range is selected and ordered upon request by the customer and is available in the following options: pine color, walnut color, mahogany color, rosewood color, oak color.





## Steel

Processing of steel elements of different thickness and of different brands, depending on the specification of the product, goes through the following steps:

- cleaning of the steel with a shot blasting machine
- application of zinc ester-epoxide hybrid primer
- application of electrostatic solid powdered polyester

The company Encho Enchev - ETE uses polyester paints with a pearl matte effect as standard, which provide a textured opaque coating.

### **RAL COLORS OF METAL ELEMENTS**



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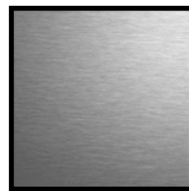
## Stainless steel

Encho Enchev - ETE uses AISI 304 stainless steel.

Marking logos and all fasteners used to assemble the product are made of stainless steel.

### **STAINLESS STEEL**

#81



AISI 304

**1.4 Technical description of the product:****Table 1: Technical description**

<b>Component</b>	<b>Dimensions</b>	<b>Material</b>	<b>Covering</b>
Concrete planter	L: 800 mm B: 800 mm H: 650 mm δ: 60 mm V: 260 L	Concrete with marble or granite aggregates (terrazzo), Surface – embossed	Varnish - gloss (EN 1504-2)
Planks (32 pieces)	L: 370 mm B: 80 mm H: 43 mm	FSC certified soft spruce wood	Pigmented waterborne top coats (impregnator and varnish) (ISO 9001)
Concrete elements (4 pieces)	δ: 43 mm (with specific shape)	Concrete with marble or granite aggregates (terrazzo), Surface – polished	Varnish - gloss (EN 1504-2)
Metal elements (1 integral construction)	δ: 3-6 mm (with specific shape and dimensions)	Steel S 235 JR EN 10025	Ester-epoxide hybrid primer (ISO14001:2015) Electrostatic solid powdered polyester (ISO14001:2015)
Marking logos	Ø: 33 mm	Stainless steel AISI 304	-
Fasteners (all bolts)	-	Stainless steel AISI 304	-
General dimensions (with seating area)	L: 1550 mm B: 1550 mm H: 650 mm Weight: 460 kg	-	-

**2.3.1 Regulatory references applicable to products:****Table 2**

EN 13198:2003; EN 13369:2019; EN 206:2013+A1:2016; EN 206:2013+A1:2016/ NA2017  
EN 13043; EN 13139; EN 13242 EN ISO 9001:2015; EN ISO 14001:2015

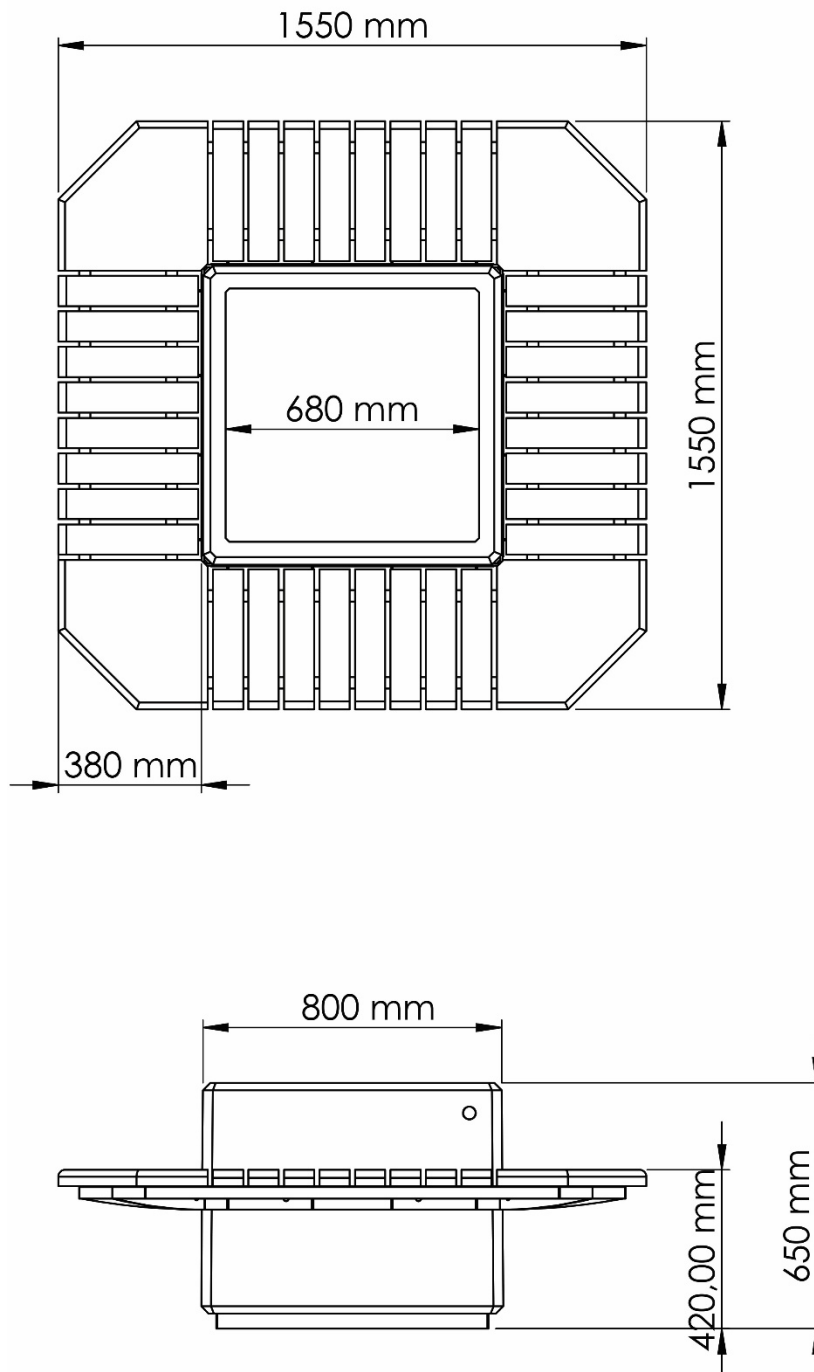
**2.3.2 Declared indicators of the characteristics of the concrete product:****Table 3**

<b>Characteristic</b>	<b>Indicator</b>	<b>Test/calculation/determination method</b>
Tolerances in nominal dimensions	± 2%, Level I	
Corrosion resistance of reinforcement	B235-S235J	EN 13198:2003, EN ISO 15630-1-2004, BDS 4758:2008 / EN10025:2004
Minimum thickness of the concrete cover	43 mm	EN 13198:2003
Concrete strength class	C60/75	EN 12390-3:2009
Environmental impact classes	XC4, XS3, XD3, XF3, XA1	EN206:2013+A1:2016/NA:2017 item NA.5.3
Watertightness	C <sub>w</sub> 1.0	EN206:2013+A1:2016/NA:2017 item NA.5.5.3.2
Frost resistance	C <sub>fr</sub> 150	EN206:2013+A1:2016/NA:2017 item NA.5.5.5





### **3. Construction and production drawings for Square planter bench Model 227**



**Figure 2**



## **4. Intended use of the product**

### **Application:**

Ready-made concrete product for exterior and / or interior application in public and private areas for decorative design with practical and functional application on streets, parks, gardens, recreation areas and others. The concrete planter with bench is designed and manufactured to be used for planting flowers and other types of plants for decoration and to serve as a place for rest and relaxation, for use by a person in a sitting position. The product meets the requirements specified in standard EN 13198: 2013, EN 13369: 2019, EN 206: 2013 + A1: 2016 and is manufactured according to an assessed and certified production control system, in accordance with the requirements of EN ISO 9001: 2015 and for protection of the environment according to EN ISO 14001: 2015.

### **Note:**

Any applications other than those specified, may result in damage to the integrity of the product as well as personal injury as a result of improper use.

The product should be serviced, cleaned and maintained by authorized persons.

Company Encho Enchev - ETE is not responsible for improper use and maintenance of the product.

### **Replaceable parts:**

All components of the product listed in **Table 1** can be ordered from the company and replaced with new ones in case of failure.

### **Support:**

To keep the appearance of the product unchanged for a long period of time, we recommend that the products be cleaned with water and a suitable detergent.

### **Product recycling:**

All materials used in the manufacture of this product are recyclable.



## **5. Additional information**

This TECHNICAL DOCUMENTATION (SPECIFICATION) is issued entirely at the responsibility of the manufacturer and applies to concrete products manufactured according to an assessed and certified production control system, in accordance with the requirements of EN ISO 9001: 2015 and environmental protection requirements according to EN ISO 14001: 2015. These indicators are based on laboratory tests conducted by independent, certified laboratories.

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## ДЕКЛАРАЦИЯ ЗА ГАРАНЦИЯ

С това Енчо Енчев-ЕТЕ ЕООД дава гаранция 24 месеца за качеството на изработка на кошове за отпадъци (модел 72); бетонна пейка (модел 6) и бетонна саксия с пейка модел 227, предоставени в обществена поръчка № ocds-b3wdr1-MD-1622728842927 от 03-ти Юни 2021 г.

15.06.2021г.

Подпис: .....





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## TECHNICAL SPECIFICATION



of

Concrete products from high-performance concrete - elements  
for landscaping streets, parks and gardens

### ***1.Product -Concrete bench Model 6***





## **1. Description of the product**

### **1.1 General description of the product:**

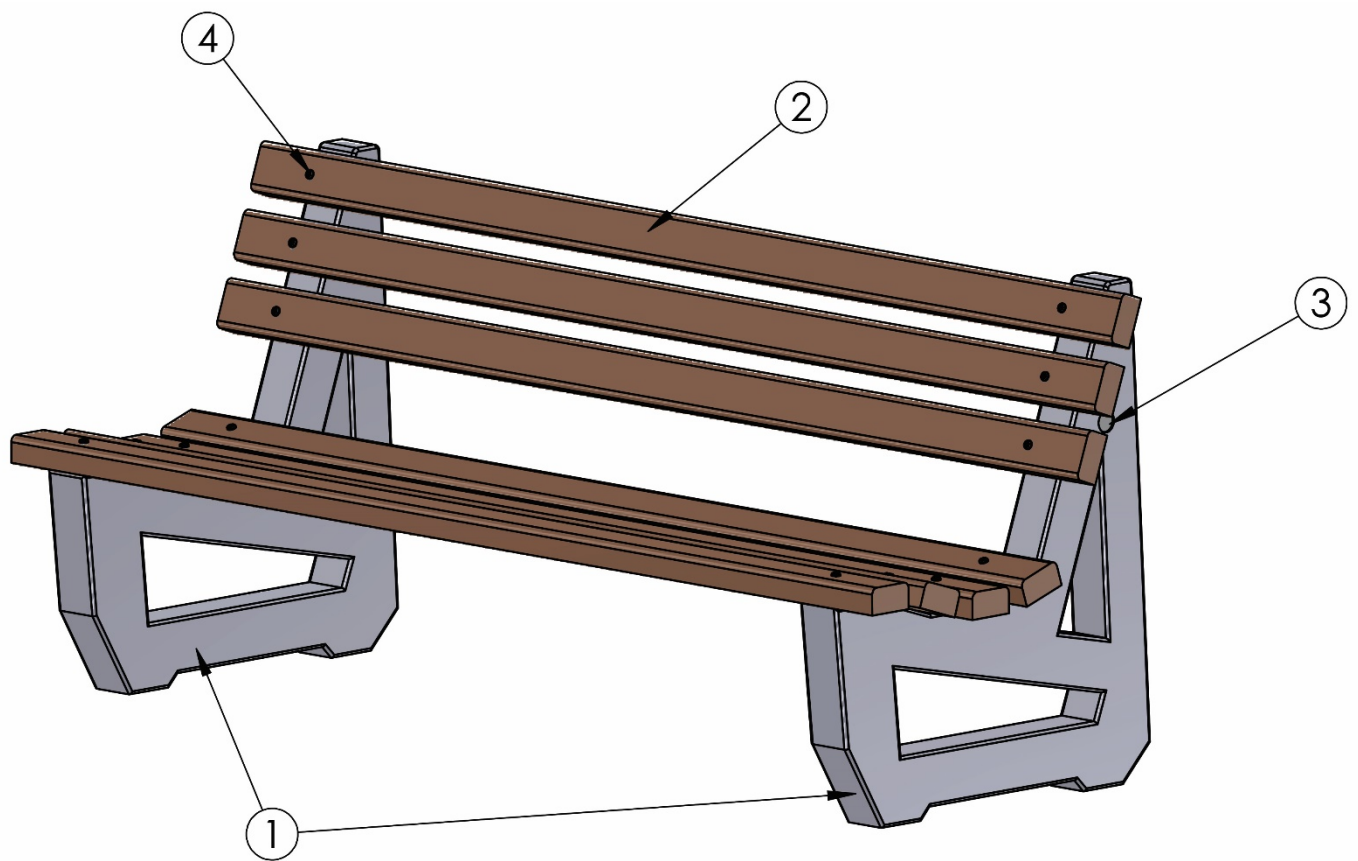
The bench is an elegant mixture combining the comfort and warmth of the wood and the strength and stability of the concrete. The construction is supported by two legs made of high-performance fiber concrete with natural aggregate. The aggregate structure consists of natural marble or granite stones of a certain size and color variations. The concrete surface has a distinctive relief and is further treated with a protective coating, which makes the product even more resistant to aggressive weather conditions. The timber of which the wooden planks are made is certified and specially treated. This retains the material's characteristics over time and prevents it from rotting. The fasteners are stainless steel. The comfort in the seating area is preserved through the specially projected ergonomic design. Classic composition intended for different urban spaces - parks, squares, alleys, playgrounds.



## 1.2 Description of the main components of the product:

The concrete bench consists of: **1.** Concrete legs; **2.** Planks; **3.** Marking logo; **4.** Stainless steel fasteners\*;  
*(Figure 1)*

\* the full description of the connecting elements is given in the product's assembly sheet



*Figure 1*



1.3 Description of the main materials of the product:

**Concrete**

High quality gray or white Portland cement is used in the production of the high-performance concrete (HPC) in combination with natural marble or granite aggregates and inert materials. The concrete structure is reinforced. Concrete is recyclable due to the absence of resins and adhesive polymeric agents.



**Natural marble aggregates**

The aggregates are a mixture of multi-colored, natural, marble or granite stone fractions with Portland cement and inert materials. The particles have selected structural characteristics and are available in various combinations with grey or white Portland cement, depending on their properties and requirements for the manufacture of the products. Embossed structure of the aggregate.







## Wood/Timber

Wood is a natural material and every beam/plank is not identical to the others, and there may be slight differences in the appearance of the woodthread, the tone and the natural imperfections, despite the processing. As the weather changes (hot climate, dry climate, humid climate, cold climate), the wood structure changes and can increase or decrease its volume, causing cracks or fissures. Although it is a natural process, it should be noted.

Spruce is offered as solid wood with a selected part of the structure of the tree. The wood is treated with high-performance impregnators and water-based varnishes that extend the life of the wood and slow down the aging of the material. This procedure does not cancel the subsequent periodic maintenance of the timber in order to keep its quality for as long as possible.

Color range is selected and ordered upon request by the customer and is available in the following options: pine color, walnut color, mahogany color, rosewood color, oak color.



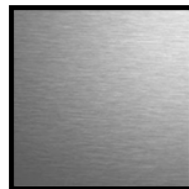
## Stainless steel

Encho Enchev - ETE uses AISI 304 stainless steel.

Marking logos and all fasteners used to assemble the product are made of stainless steel.

### **STAINLESS STEEL**

#81



AISI 304



## 1.4 Technical description of the product:

**Table 1: Technical description**

<b>Component</b>	<b>Dimensions</b>	<b>Material</b>	<b>Covering</b>
Concrete legs (2 pieces)	L: 680 mm B: 80 mm H: 800 mm	Concrete with marble or granite aggregates (terrazzo), Surface – embossed	Varnish - gloss (EN 1504-2)
Planks (7 pieces)	L: 1900 mm B: 80 mm H: 43 mm	FSC certified soft spruce wood	Pigmented waterborne top coats( impregnator and varnish) (ISO 9001)
Marking logos	Ø: 33 mm	Stainless steel AISI 304	-
Fasteners (all bolts)	-	Stainless steel AISI 304	-
General dimensions	L: 1900 mm B: 690 mm H: 800 mm Weight: 105 kg	-	-

**2.3.1 Regulatory references applicable to products:****Table 2**

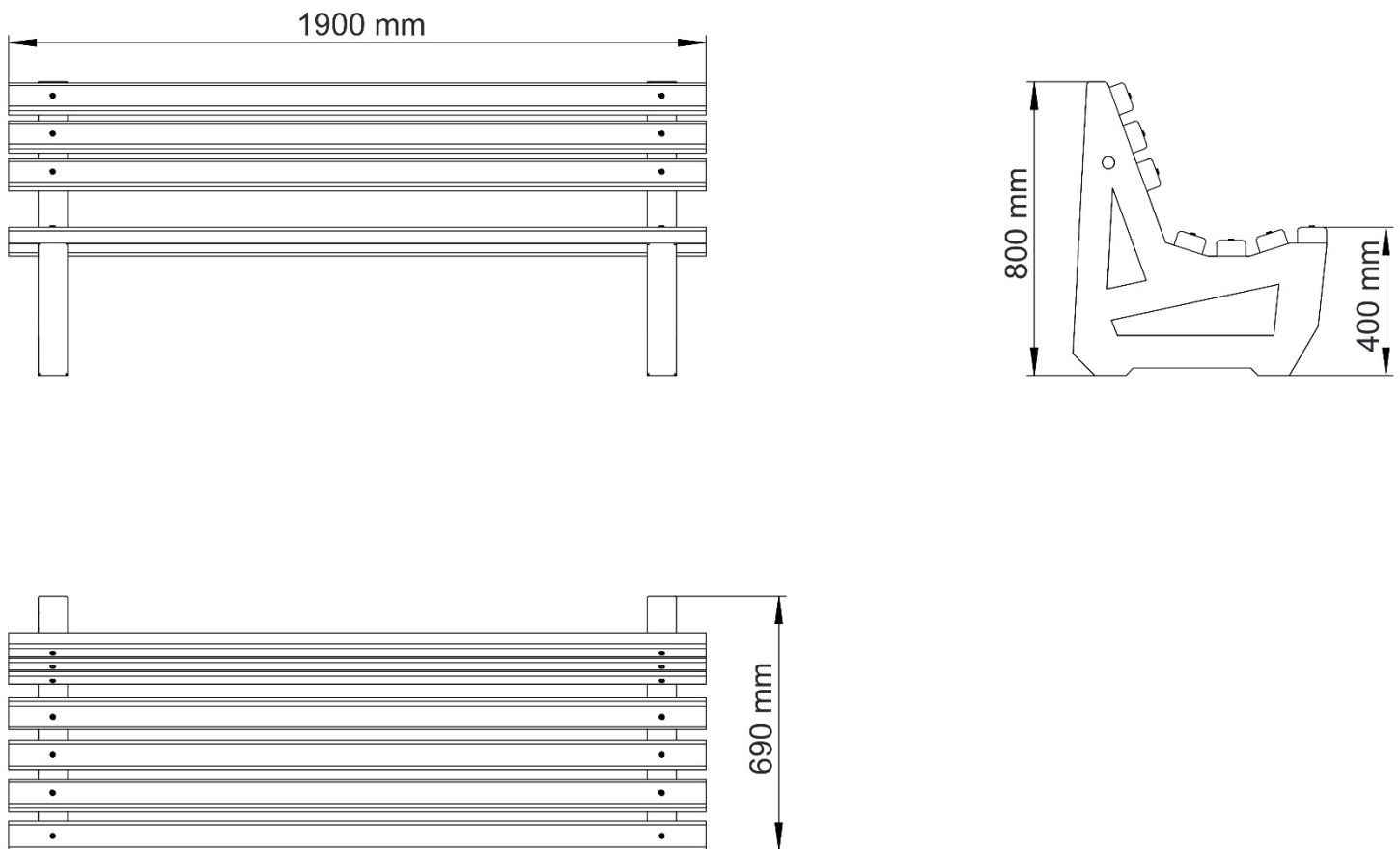
EN 13198:2003; EN 13369:2019; EN 206:2013+A1:2016; EN 206:2013+A1:2016/ NA2017  
EN 13043; EN 13139; EN 13242 EN ISO 9001:2015; EN ISO 14001:2015

**2.3.2 Declared indicators of the characteristics of the concrete product:****Table 3**

<b>Characteristic</b>	<b>Indicator</b>	<b>Test/calculation/determination method</b>
Tolerances in nominal dimensions	± 2%, Level I	
Corrosion resistance of reinforcement	B235-S235J	EN 13198:2003, EN ISO 15630-1-2004, BDS 4758:2008 / EN10025:2004
Minimum thickness of the concrete cover	80 mm	EN 13198:2003
Concrete strength class	C60/75	EN 12390-3:2009
Environmental impact classes	XC4, XS3, XD3, XF3, XA1	EN206:2013+A1:2016/NA:2017 item NA.5.3
Watertightness	C <sub>w</sub> 1.0	EN206:2013+A1:2016/NA:2017 item NA.5.5.3.2
Frost resistance	C <sub>fr</sub> 150	EN206:2013+A1:2016/NA:2017 item NA.5.5.5



### **3. Construction and production drawings for Concrete bench Model 6**



*Figure 2*



## **4. Intended use of the product**

### **Application:**

Ready-made concrete product for exterior and / or interior application in public and private areas for decorative design with practical and functional application on streets, parks, gardens, recreation areas and others. The concrete bench is designed and manufactured as an item for rest and relaxation, intended for use by a person in a sitting position. The product meets the requirements specified in standard EN 13198: 2013, EN 13369: 2019, EN 206: 2013 + A1: 2016 and is manufactured according to an assessed and certified production control system, in accordance with the requirements of EN ISO 9001: 2015 and for protection of the environment according to EN ISO 14001: 2015.

### **Note:**

Any applications other than those specified, may result in damage to the integrity of the product as well as personal injury as a result of improper use.

The product should be serviced, cleaned and maintained by authorized persons.

Company Encho Enchev - ETE is not responsible for improper use and maintenance of the product.

### **Replaceable parts:**

All components of the product listed in **Table 1** can be ordered from the company and replaced with new ones in case of failure.

### **Support:**

To keep the appearance of the product unchanged for a long period of time, we recommend that the products be cleaned with water and a suitable detergent.

### **Product recycling:**

All materials used in the manufacture of this product are recyclable.



## **5. Additional information**

This TECHNICAL DOCUMENTATION (SPECIFICATION) is issued entirely at the responsibility of the manufacturer and applies to concrete products manufactured according to an assessed and certified production control system, in accordance with the requirements of EN ISO 9001: 2015 and environmental protection requirements according to EN ISO 14001: 2015. These indicators are based on laboratory tests conducted by independent, certified laboratories.

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## TECHNICAL SPECIFICATION



of

Concrete products from high-performance concrete - elements  
for landscaping streets, parks and gardens

### ***1.Product -Concrete litter bin Model 72***





## **1. Description of the product**

### **1.1 General description of the product:**

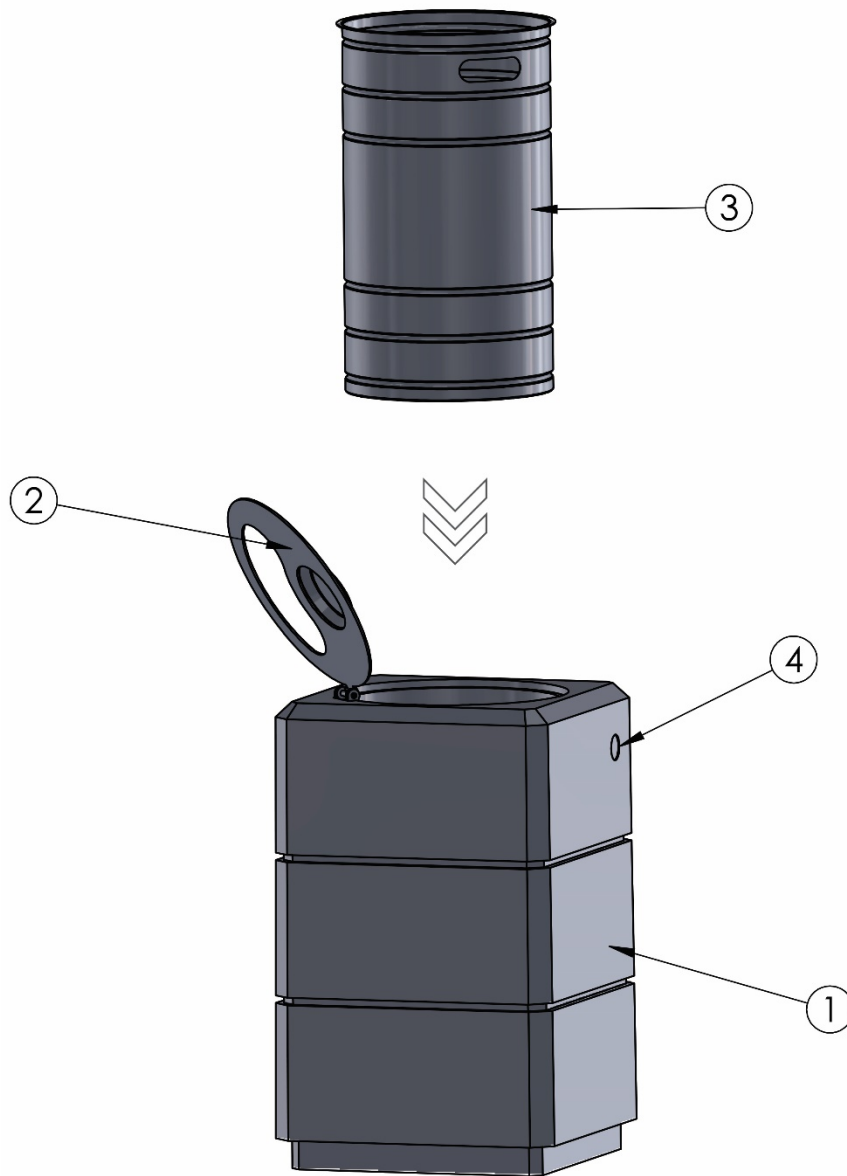
Litter bin made of high-performance concrete and natural embossed aggregate combined with high-quality metal elements. The concrete is reinforced and fiber strengthened. The aggregate structure is composed of natural marble or granite stones of precisely defined dimensions. The surface is treated with a special protective coating. It reduces the deposition of dirt and further increases the product's resistance to aggressive weather conditions. The possibility of anchoring to the flooring, as well as the strength of the materials from which it is made, guarantee its long-term operation. The metal lid has an integrated ashtray. The lid is covered with ester-epoxy zinc primer and is powder coated. These technological methods protect the metal from corrosion and increase its performance. The concrete bin has an inner container of galvanized metal for waste collection, providing easy access for cleaning and maintenance. The variations in the color combinations of the aggregate and the metallic elements add personality and style. With its innovative design, the concrete litter bin is a beautiful and functional addition to the design of exterior spaces in parks and gardens.





## 1.2 Description of the main components of the product:

The concrete litter bin consists of: **1.** Concrete body; **2.** Metal lid with ashtray; **3.** Internal galvanized metal container with a capacity of 30 liters; **4.** Marking logo; (*Figure 1*)



*Figure 1*



## 1.3 Description of the main materials of the product:

### Concrete

High quality gray or white Portland cement is used in the production of the high-performance concrete (HPC) in combination with natural marble or granite aggregates and inert materials. The concrete structure is reinforced. Concrete is recyclable due to the absence of resins and adhesive polymeric agents.



### Natural marble aggregates

The aggregates are a mixture of multi-colored, natural, marble or granite stone fractions with Portland cement and inert materials. The particles have selected structural characteristics and are available in various combinations with grey or white Portland cement, depending on their properties and requirements for the manufacture of the products. Embossed structure of the aggregate.





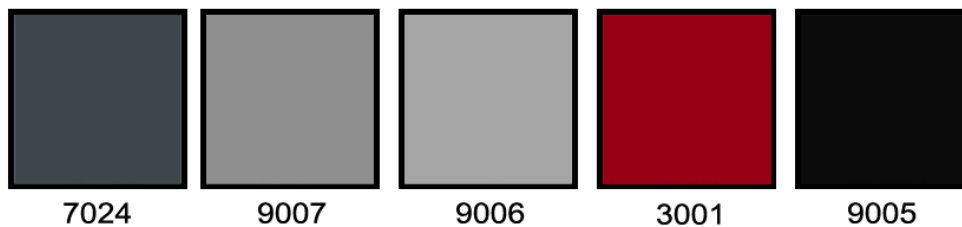
## Steel

Processing of steel elements of different thickness and of different brands, depending on the specification of the product, goes through the following steps:

- cleaning of the steel with a shot blasting machine
- application of zinc ester-epoxide hybrid primer
- application of electrostatic solid powdered polyester

The company Encho Enchev - ETE uses polyester paints with a pearl matte effect as standard, which provide a textured opaque coating.

### **RAL COLORS OF METAL ELEMENTS**



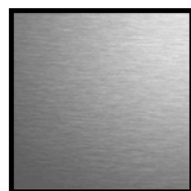
## Stainless steel

Encho Enchev - ETE uses AISI 304 stainless steel.

Marking logos and all fasteners used to assemble the product are made of stainless steel.

### **STAINLESS STEEL**

#81



AISI 304



## 1.4 Technical description of the product:

**Table 1: Technical description**

Component	Dimensions	Material	Covering
Concrete body	L: 380 mm B: 380 mm H: 620 mm δ: 50 mm	Concrete with marble or granite aggregates (terrazzo), Surface – embossed	Varnish - gloss (EN 1504-2)
Metal lid	Ø: 300 mm δ: 3 mm	Steel S 235 JR EN 10025	Ester-epoxide hybrid primer (ISO14001:2015) Electrostatic solid powdered polyester (ISO14001:2015)
Internal container	V:30 L δ: 1 mm	Steel DX51D+Z EN 10346:2015	Galvanization
Marking logos	Ø: 33 mm and Ø: 50 mm	Stainless steel AISI 304	-
Fasteners (all bolts)	-	Stainless steel AISI 304	-
General dimensions	L: 380 mm B: 380 mm H: 620 mm V:30 L Weight: 115 kg	-	-



## 2.3.1 Regulatory references applicable to products:

**Table 2**

EN 13198:2003; EN 13369:2019; EN 206:2013+A1:2016; EN 206:2013+A1:2016/ NA2017  
EN 13043; EN 13139; EN 13242 EN ISO 9001:2015; EN ISO 14001:2015

## 2.3.2 Declared indicators of the characteristics of the concrete product:

**Table 3**

<b>Characteristic</b>	<b>Indicator</b>	<b>Test/calculation/determination method</b>
Tolerances in nominal dimensions	± 2%, Level I	
Corrosion resistance of reinforcement	B235-S235J	EN 13198:2003, EN ISO 15630-1-2004, BDS 4758:2008 / EN10025:2004
Minimum thickness of the concrete cover	50 mm	EN 13198:2003
Concrete strength class	C60/75	EN 12390-3:2009
Environmental impact classes	XC4, XS3, XD3, XF3, XA1	EN206:2013+A1:2016/NA:2017 item NA.5.3
Watertightness	C <sub>w</sub> 1.0	EN206:2013+A1:2016/NA:2017 item NA.5.5.3.2
Frost resistance	C <sub>fr</sub> 150	EN206:2013+A1:2016/NA:2017 item NA.5.5.5



### 3. Construction and production drawings for Recycling litter bin Model 72

Figure 2 - Concrete litter bin model 72

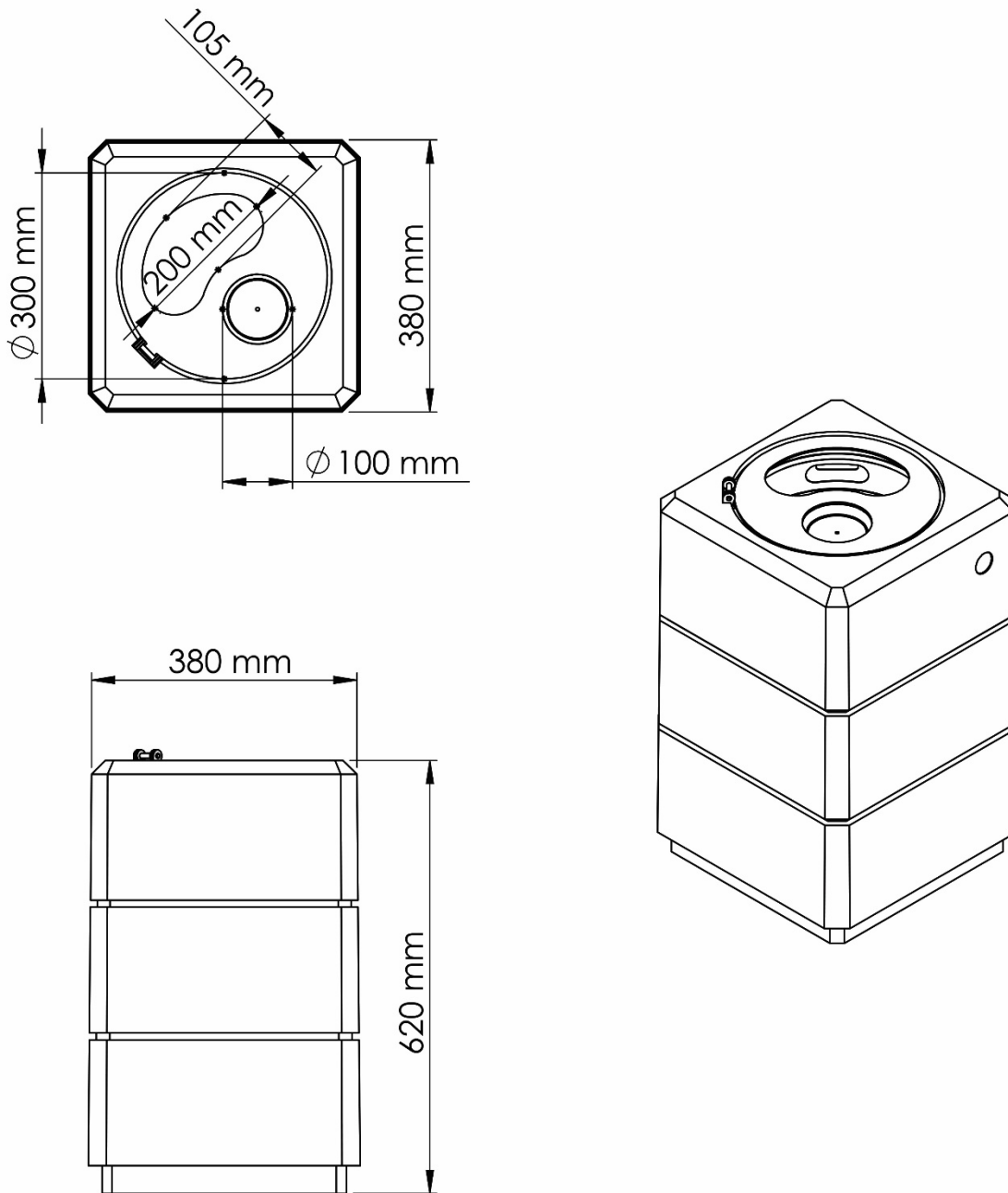
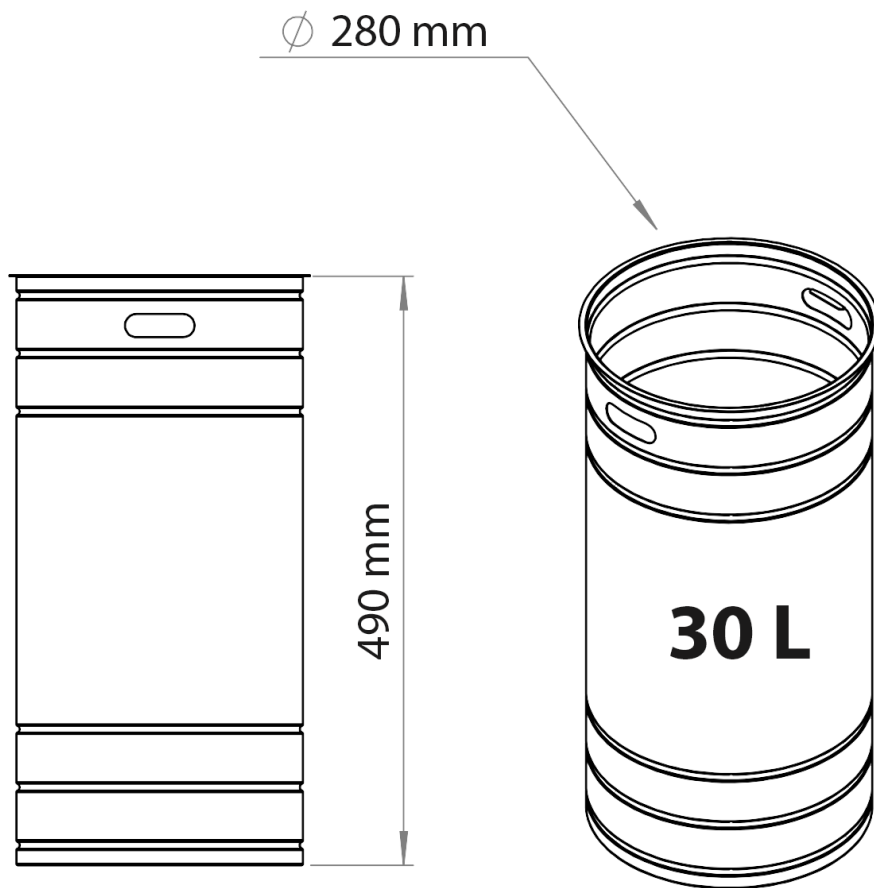


Figure 2



Figure 3 – Inner container (bucket), volume 30 liters



*Figure 3*



## 4. Intended use of the product

### **Application:**

Ready-made concrete product for exterior and / or interior application in public and private areas for decorative design with practical and functional application on streets, parks, gardens, recreation areas and others. The concrete litter bin is manufactured for the purpose of household waste collection. This does not include waste with a special regime of storage and destruction (biological and chemical), waste harmful to human health and nature. Recyclable waste (plastic, glass, metal) is recommended to be disposed of in special containers. The product meets the requirements specified in standard EN 13198: 2013, EN 13369: 2019, EN 206: 2013 + A1: 2016 and is manufactured according to an assessed and certified production control system, in accordance with the requirements of EN ISO 9001: 2015 and for protection of the environment according to EN ISO 14001: 2015.

### **Note:**

Any applications other than those specified, may result in damage to the integrity of the product as well as personal injury as a result of improper use.

The product should be serviced, cleaned and maintained by authorized persons.

Company Encho Enchev - ETE is not responsible for improper use and maintenance of the product.

### **Replaceable parts:**

All components of the product listed in **Table 1** can be ordered from the company and replaced with new ones in case of failure.

### **Support:**

To keep the appearance of the product unchanged for a long period of time, we recommend that the products be cleaned with water and a suitable detergent.

### **Product recycling:**

All materials used in the manufacture of this product are recyclable.





## **5. Additional information**

This TECHNICAL DOCUMENTATION (SPECIFICATION) is issued entirely at the responsibility of the manufacturer and applies to concrete products manufactured according to an assessed and certified production control system, in accordance with the requirements of EN ISO 9001: 2015 and environmental protection requirements according to EN ISO 14001: 2015. These indicators are based on laboratory tests conducted by independent, certified laboratories.

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## ДЕКЛАРАЦИЯ НА ПРОИЗВОДИТЕЛЯ

С настоящата декларация фирма Енчо Енчев-ЕТЕ ЕООД дава гаранция за качество за срок от 24 месеца на кошчета за отпадъци (модел 72); бетонна пейка (модел 6); квадратна саксия с пейка (модел 227), предоставени в обществена поръчка № ocds-b3wdr1-MD-1622728842927 от 03-ти Юни 2021 г., в рамките на сроковете, предвидени в тръжната документация.

27.04.2021г.

Подпис: .....

