



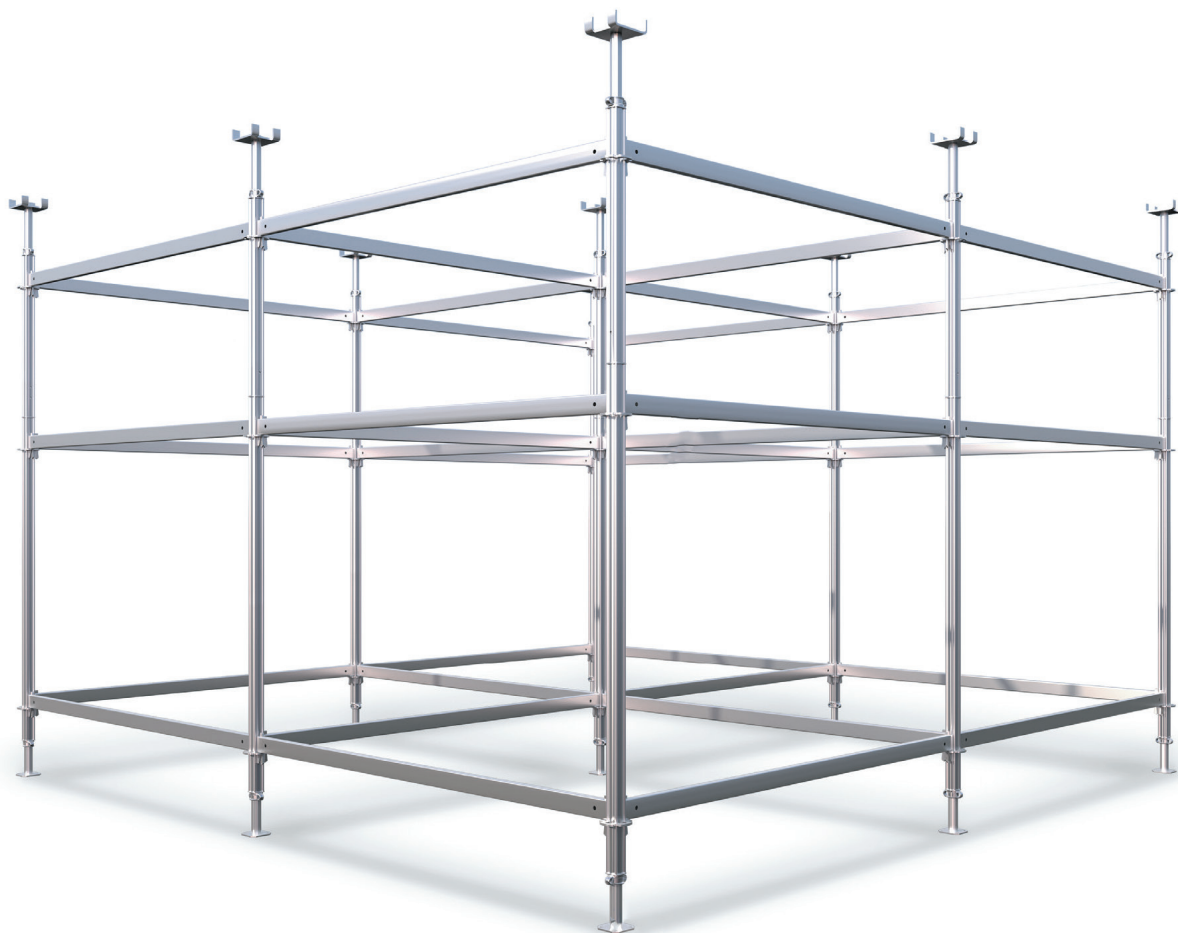
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PS-W passport

WESKER PRO-5 LADING PANEL



PURPOSE AND APPLICATION

The universal system for floors of any complexity. It allows for considerable reduction of construction time due to technological design and to significantly reduce the number of elements within the system, which also reduces the time of on-site assembling and disassembling of the system.

Engineering → production → realization

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APPLICATION

- Construction of buildings and structures made with monolithic reinforced concrete
- Construction of buildings and structures made with precast concrete
- For auxiliary applications in the construction of bridges, flyovers, transport tunnels and similar structures
- For scaffolding during façade and masonry work on buildings and structures of any complexity
- For scaffolding in the repair and construction of ships and for use in similar industries

SYSTEM ADVANTAGES AND FEATURES

Versatile, collapsible-removable support system based on the improved wedge fixing unit for vertical support axes and horizontal ties. The system is made with modern high-tech equipment, which ensures the high quality of the formwork.

Universality

It can be used for monolithic works on floors of any level of complexity, up to 20 m high.

Stability

Can bear up to 70% more vertical load than the mullion profile of the standard wedge-type shoring system

Durability

All the elements are zinc galvanized, which allows using the construction for many years without losing performance properties.

Cost effective

Total cost saving of 10 to 50% on a price of the equipment package of any standard analogue system.

Premium quality

High quality of all elements of the system is guaranteed. Turnover rate: up to 300 cycles.

Easy assembly

Effortless and secure locking of the component and the wedge body by a simple snap-on action.

Safety

Even in the event of an accident in one part, the construction remains completely stable and limited to a minimum of local damage

Reliability

Reliable operation of the entire system due to the synergistic effect of the intelligent design of each element

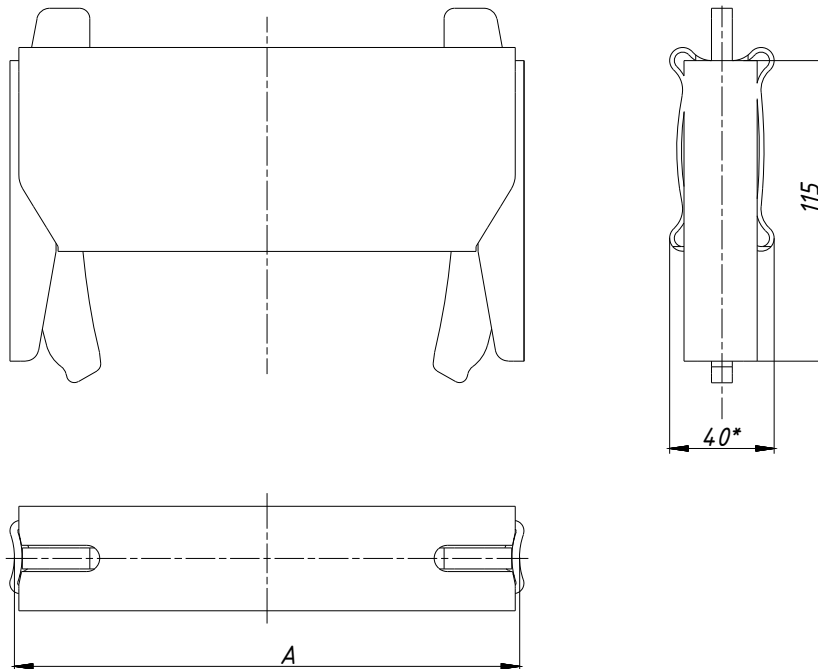
SYSTEM SPECIFICATIONS

- The WESKER Pro-5 support system is made of a special profiled pipe
- The profile is developed by the manufacturer and patented according to the legislation of the Russian Federation
- WESKER Pro-5 support system is designed in accordance with GOST 34329-2017 "Formwork. General technical conditions".
- Distinctive feature of the WESKER Pro-5 system is the use of the system in conjunction with the main steel inventory beam
- It is forbidden to use the system (with an axis spacing of more than 2 meters) without a steel support beam

Measurements	Values
Maximum height (standard), meters	20
Maximum height (custom), meters	120
Rigidity ribs, pieces	8
Support washers at beam ends	Available
Max. axle load, tons	5
System turnover, average number of operating cycles	300

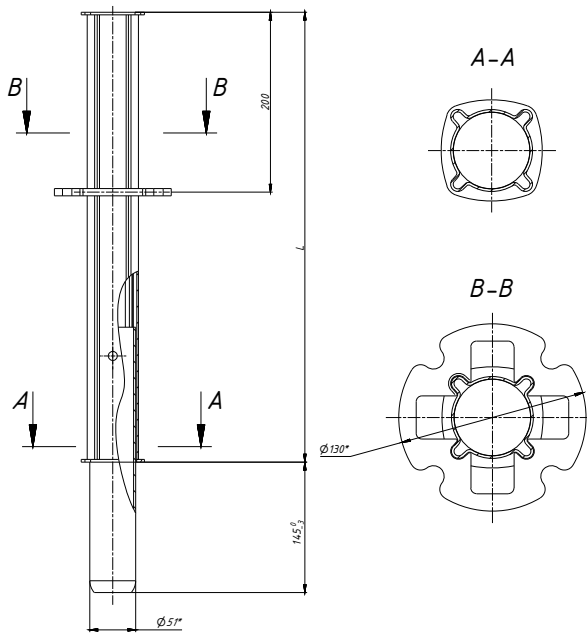
ACCESSORIES OF THE WESKER PRO-5 SUPPORT SYSTEM

WR-25 CONNECTOR

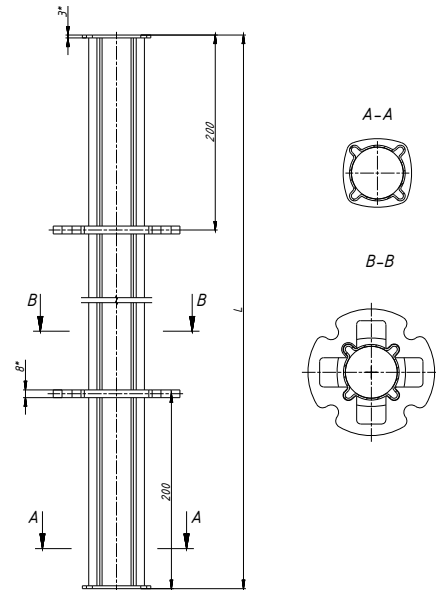


ACCESSORIES OF THE WESKER PRO-5 SUPPORT SYSTEM

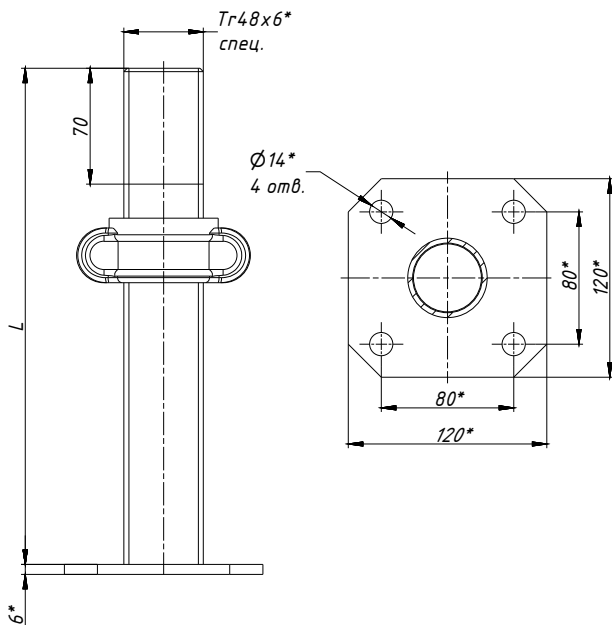
WRD SUPPORT



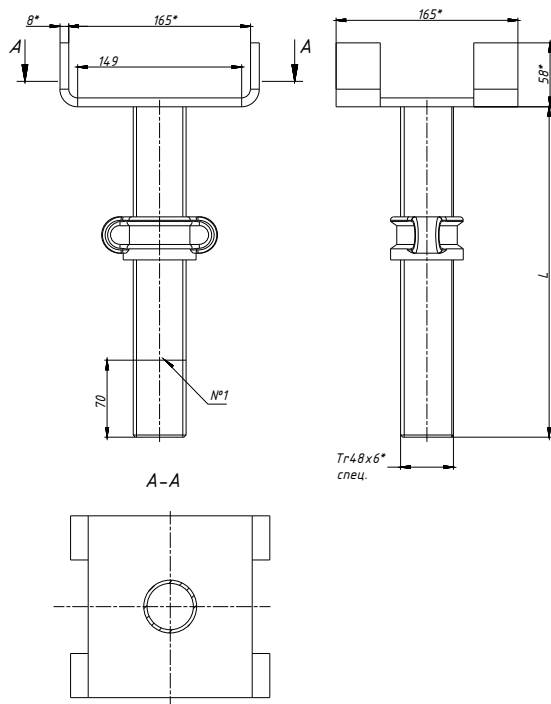
WRS SUPPORT



WR 1-30 SCREW-TYPE SUPPORT



WRT 1-110 SCREW-TYPE SUPPORT

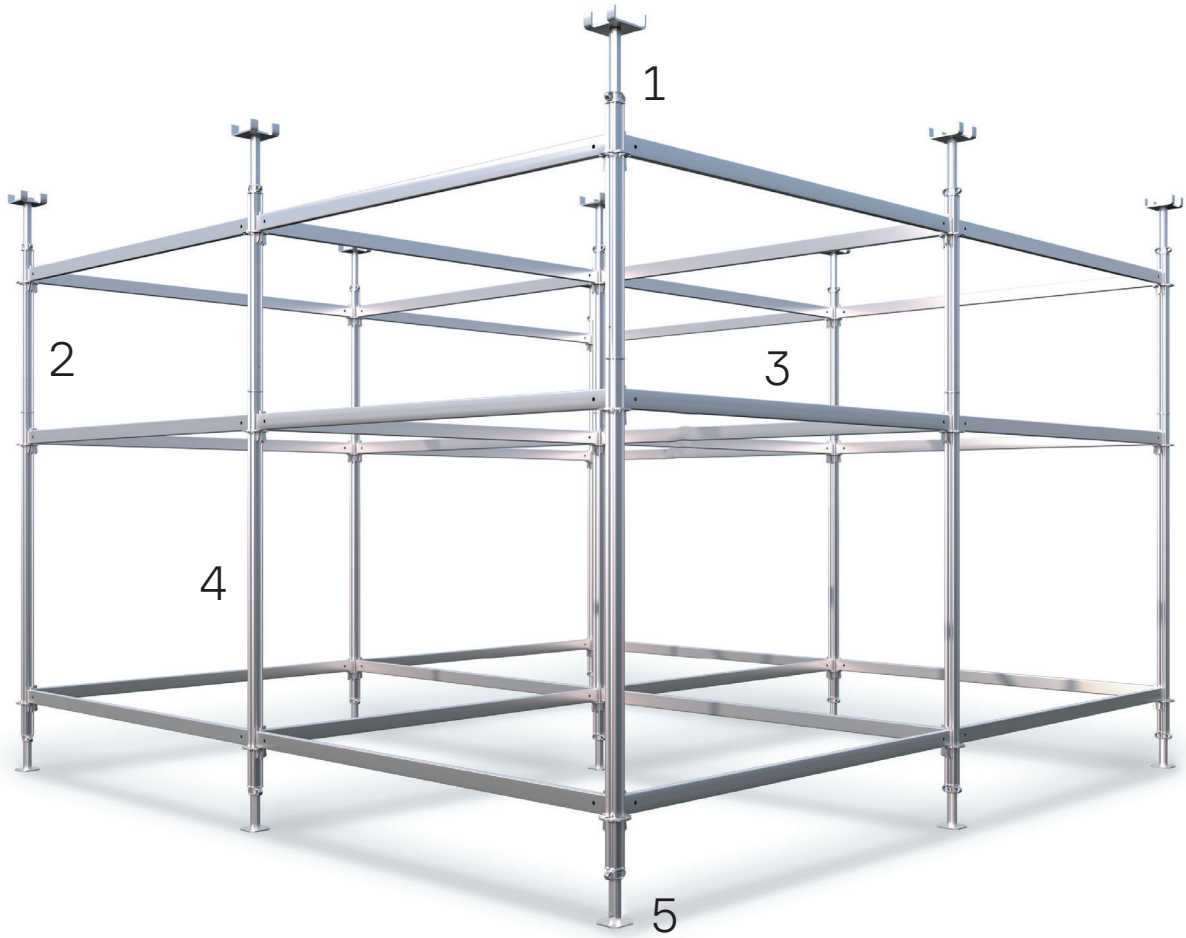


ACCESSORIES OF THE WESKER PRO-5 SUPPORT SYSTEM

Designation	Items	L, mm	Mass, kg
WR-002.00.000-00.09.00	WRs 2-100 Support	1000	4,204
WR-002.00.000-01.09.00	WRs 2-120 Support	1200	4,860
WR-002.00.000-02.09.00	WRS 2-140 Support	1400	5,517
WR-002.00.000-03.09.00	WRs 2-150 Support	1500	5,845
WR-002.00.000-04.09.00	WRs 2-180 Support	1800	6,830
WR-002.00.000-05.09.00	WRS 2-200 Support	2000	7,486
WR-002.00.000-06.09.00	WRs 2-220 Support	2200	8,142
WR-002.00.000-07.09.00	WRs 2-240 Support	2400	8,799
WR-005.00.000-00.09.00	WRd 1-50 Support	500	3,019
WR-005.00.000-01.09.00	WRd 1-100 Support	1000	4,660
WR-005.00.000-02.09.00	WRd 1-120 Support	1200	5,317
WR-005.00.000-03.09.00	WRd 1-140 Support	1400	5,973
WR-005.00.000-04.09.00	WRd 1-150 Support	1500	6,301
WR-005.00.000-05.09.00	WRd 1-180 Support	1800	7,286
WR-005.00.000-06.09.00	WRd 1-200 Support	2000	7,942
WR-011.00.000-00.09.00	WR-25 connector	193	1,25
WR-011.00.000-01.09.00	WR-50 connector	443	2,08
WR-011.00.000-02.09.00	WR-75 connector	693	2,9
WR-011.00.000-03.09.00	WR-100 connector	943	3,75
WR-011.00.000-04.09.00	WR-125 connector	1193	4,55
WR-011.00.000-05.09.00	WR-150 connector	1443	5,38
WR-011.00.000-06.09.00	WR-175 connector	1693	6,2
WR-011.00.000-07.09.00	WR-200 connector	1943	7,03
WR-011.00.000-08.09.00	WR-250 connector	2443	8,68
WR-012.00.000-00.09.00	WR 1-30 Screw-type support	300	1,943
WR-012.00.000-01.09.00	WR 1-85 Screw-type support	850	3,774
WR-012.00.000-02.09.00	WR 1-110 Screw-type support	1100	4,606
WR-014.00.000-00.09.00	WRt 1-30 Screw-type support	300	3,549
WR-014.00.000-01.09.00	WRt 1-85 Screw-type support	850	5,380
WR-014.00.000-02.09.00	WRt 1-110 Screw-type support	1100	6,212

ITEMS

1. WR Screw-type support
2. WRd Support
3. WR Connector
4. WRs Support
5. WRt Screw-type support



LOAD AND DATA FOR CALCULATING THE SUPPORT SYSTEM

Measurements	Values
Maximum axle load per one support, tons	5
Pole spacing, meters	0,25-2,5
Min. height from the support surface to the formwork panels, meters	1,5
Max. height from supporting surface to shuttering boards (can be higher upon agreement with the manufacturer), meters	20
Maximum permissible load on the horizontal connection at support spacing 1.0 x 1.0 m, t	1,2

Load capacity for the calculation of the formwork are calculated according to GOST 34329-2017 "Formwork general specifications". Static calculation and determination of the theoretical load-carrying capacity of volumetric supports is performed using the calculation complex Creo/Simulate by the "GVS Pro, LLC".

FORMWORK ELEMENTS LOAD IS MADE UP OF THE FOLLOWING COMPONENTS:

q1 – mass of concrete mixture – for heavy concrete 2500 kg/m³

q2 – reinforcement weight – it is assumed according to the design, in the absence of data - 100 kg/m³

q3 – load of people and vehicles – 250 kgf/m²

q4 – support system dead load, determined from drawings

q5 – additional dynamic loading

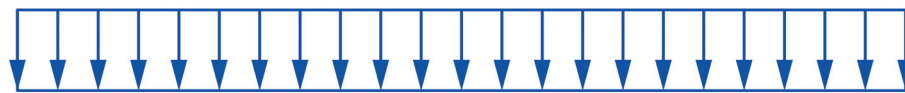
→ Descent on trays, trunks - 400 kg/m²

→ Unloading from containers with capacity:
Up to 0,8 m³ - 400 kg/m²
More than 0,8 m³ - 600 kg/m²

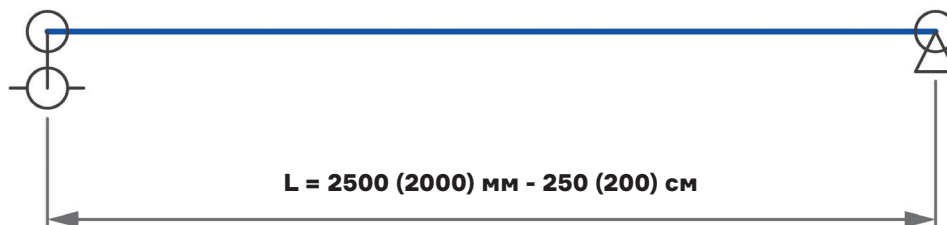
→ Concrete pumping - 800 kg/m²

Upper support single-span beam.

Beam span: 250 cm and 200 cm.



Normative girder load **Gn=2.0 tf/m = 20 kgf/m**



To ensure the strength and stiffness of the beam with a span of 2.5 m a cross-section of the beam is required with the following characteristics:

→ I-beam 16B1 (according to GOST 26020-83)

DESIGN PATENT: TUBULAR PROFILE



РОССИЙСКАЯ ФЕДЕРАЦИЯ

(19) **RU** (11) **121725** (51) МКПТО **12-01**

(15) Дата регистрации: **24.09.2020**
 (21) Номер заявки: **2019505970**
 (22) Дата подачи заявки: **26.12.2019**
 (24) Дата, с которой исчисляется срок действия патента: **26.12.2019**
 (45) Дата публикации: **24.09.2020** Бюл. № 10

ФЕДЕРАЛЬНАЯ СЛУЖБА ПО ИНТЕЛЛЕКТУАЛЬНОЙ СОБСТВЕННОСТИ

(12) **СВЕДЕНИЯ О ПАТЕНТЕ НА ПРОМЫШЛЕННЫЙ ОБРАЗЕЦ**

Статус: действует (последнее изменение статуса: 16.10.2020)

Приоритет(ы): (22) Дата подачи заявки: 26.12.2019	(72) Автор(ы): Антоненко Александр Николаевич (RU), Левочкин Константин Юрьевич (RU), Киселева Ольга Александровна (RU), Коваленко Владимир Николаевич (RU)
(73) Патентообладатель(и): Общество с ограниченной ответственностью "Торгово-строительная компания "Базис Холдинг" (RU),	Адрес для переписки: 119415, Москва, ул. Удальцова, д. 17, корп. 2, кв. 170, Киселеву В.М.

(54) **ПРОФИЛЬ ТРУБЧАТЫЙ**
 (55) Профиль трубчатый

DESIGN PATENT: FLANGE



РОССИЙСКАЯ ФЕДЕРАЦИЯ

(19) **RU** (11) **121726** (51) МКПТО **12-08**

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(54) **ФЛАНЕЦ**
 (55) Фланец

SYSTEM ASSEMBLY AND DISASSEMBLY

The following work must be carried out before the installation of the slab formwork:

- Columns, monolithic stiffening diaphragms, and stairlift unit walls have been erected and the formwork for these structures has been dismantled.
- The foundations were prepared and debris and snow were removed.
- The geodetic surveying of the marks and axes of the structure for the erection of the structure were carried out.
- Measuring tools (tape measure, ruler) were used to mark the points of installation of screw supports WR of WESKER Pro-5 system in accordance with the technological charts.
- WRs and WRd supports of the WESKER Pro-5 system are installed.
- Screw supports WRt are installed.
- Load-bearing steel formwork girders were installed into the WRt screw supports. Overhang of the steel formwork girders cantilevers (main girders) does not exceed 300 mm. The design of the spiral support WRt allows the overlapping of girders on the length.
- Perform precise setting of the top marks of the formwork girders with the help of geodetic instruments.
- A distributive formwork girder is placed on top of the load-bearing beams. The overhang of the cantilevers of the distribution beams must not exceed 500 mm. The overlap of the distribution beams must be at least 100 mm in length.
- Moisture-resistant plywood is laid and fixed to the divider beams with the joints of the individual sheets directly on the divider beam.
- Mark out the places where the edge formwork is to be installed.
- Install the edge stops, guardrail posts and edge formwork. It is recommended to fix the outermost rows of distribution formwork beams along the slab end at several points to prevent their displacement when laying plywood.
- Lubricate the working surface of the deck before laying the reinforcement, and pay attention to avoid contamination of the already lubricated surface during the reinforcement works.

Installation and removal of the WESKER Pro-5 system is carried out under the supervision of the person in charge of the worksite. The person carrying out the work must carefully study the PPW (Planning and Production Work) document and, when assembling and disassembling the formwork, strictly follow the instructions of this document.

Installation of WESKER Pro-5 system without the approved PPW or with deviations without an approved planning permission is strictly prohibited.

The person in charge of the installation must:

- Carefully study the design, requirements of this data sheet and operating instructions.
- Familiarize themselves with the installation diagram of the elements for the specific object in accordance with the PPW.
- Check the list of required elements (specification) according to the installation diagram.
- In accordance with the WESKER Pro-5 system kit from the warehouse dispose of all damaged elements according to the list. The dimensions of all elements must comply with the dimensions specified in the system installation diagram, the type of work required and the permissible loads.
- During installation and disassembly of the WESKER Pro-5 system, the safety rules for construction and installation work must be observed.

SYSTEM ASSEMBLY AND DISASSEMBLY

- The WESKER Pro-5 system elements must be lifted and lowered with a hoist, winch or other lifting devices.
- It is forbidden to throw system components down.
- The structure is to be installed in tiers over the entire area.
- The assembled construction of the volumetric racks must comply with the installation diagrams and the PPW.
- All elements of the slab deck shall comply with the requirements for products of the 1st class according to GOST 34329-2017.
- It is forbidden to encumber the structure with a load exceeding the permissible weight.
- During installation and dismantling of the structure, access of people who are not working on-site is prohibited.
- Lifting and lowering of people must only be carried out using ladders, but no more than 1 person per ladder.
- Only workers who have received special training and medical examination may be allowed to work on the installation/dismantling of the formwork at heights of more than 15 m.
- Protective canopies must be installed over the WESKER Pro-5 system's passageways.
- Protective devices must be installed to prevent damage to structural elements located near passageways.
- Power lines located closer than 5m to the formwork must be removed, de-energized or enclosed in wooden ducts during installation/dismantling, and trolleybus and other wire ties in the formwork area must be enclosed in rubber hoses.
- During thunderstorms and in winds of magnitude six or more, work on the WESKER Pro-5 system, as well as its assembly and disassembly, is prohibited.

The following safety rules must be observed when feeding materials to the WESKER Pro-5 system with a tower crane directly to the workplace:

Do not turn the boom at the same time as the crane is moving or the load is being lifted:

- In the immediate vicinity of structural elements
- A signal person must be on the slab formwork to direct the load by giving a signal to the crane driver
- Lowering the load onto the floor-slab planking must be done smoothly and at the lowest possible speed

In addition to the safety precautions in this passport, the following must also be observed comply with the following requirements:

- Building code 12-03-2001 "Labor safety in construction. Part 1. General requirements"
- Building code 12-04-2002 "Occupational safety in construction. Part 2. General requirements"

MOVING AND STORING THE ELEMENTS

- Transportation can be carried out by any type of transport, in accordance with the rules for the type of transport used.
- Before transportation, the elements must be sorted by type (ties, supports, screw supports) and packed in bundles, tightened with tape.
- It is not permitted to drop the structural elements from the vehicles during unloading.
- Storage of all elements must be carried out according to storage group OZH 4, in compliance with GOST 15150-69.
- During long-term storage, the elements must be placed on pads that prevent them from coming into contact with the ground.
- Metal surfaces of elements without paint-and-lacquer coatings for long-term storage must be preserved according to GOST 4366-7.
- During transportation and storage packages and boxes with the parts can be stacked on top of each other in no more than three tiers.

MANUFACTURER'S WARRANTY

The manufacturer guarantees conformity of the WESKER Pro-5 system to requirement specifications, provided that the consumer complies with the conditions of operation, transportation and storage.

The warranty period is 12 months from the date of delivery to the client.

CERTIFICATE OF ACCEPTANCE

Products comply with TU 5225-002-63599854-201 and are considered suitable for operation.

QC inspector _____
Seal of QC

Issue date _____

Account number

(stamp spot)

Shipment date _____

+7 (495) 118 29 69

Russia, 249051, Kaluga reg,
Maloyaroslavets region,
v. Kollontai, Zarechnaya 2.

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