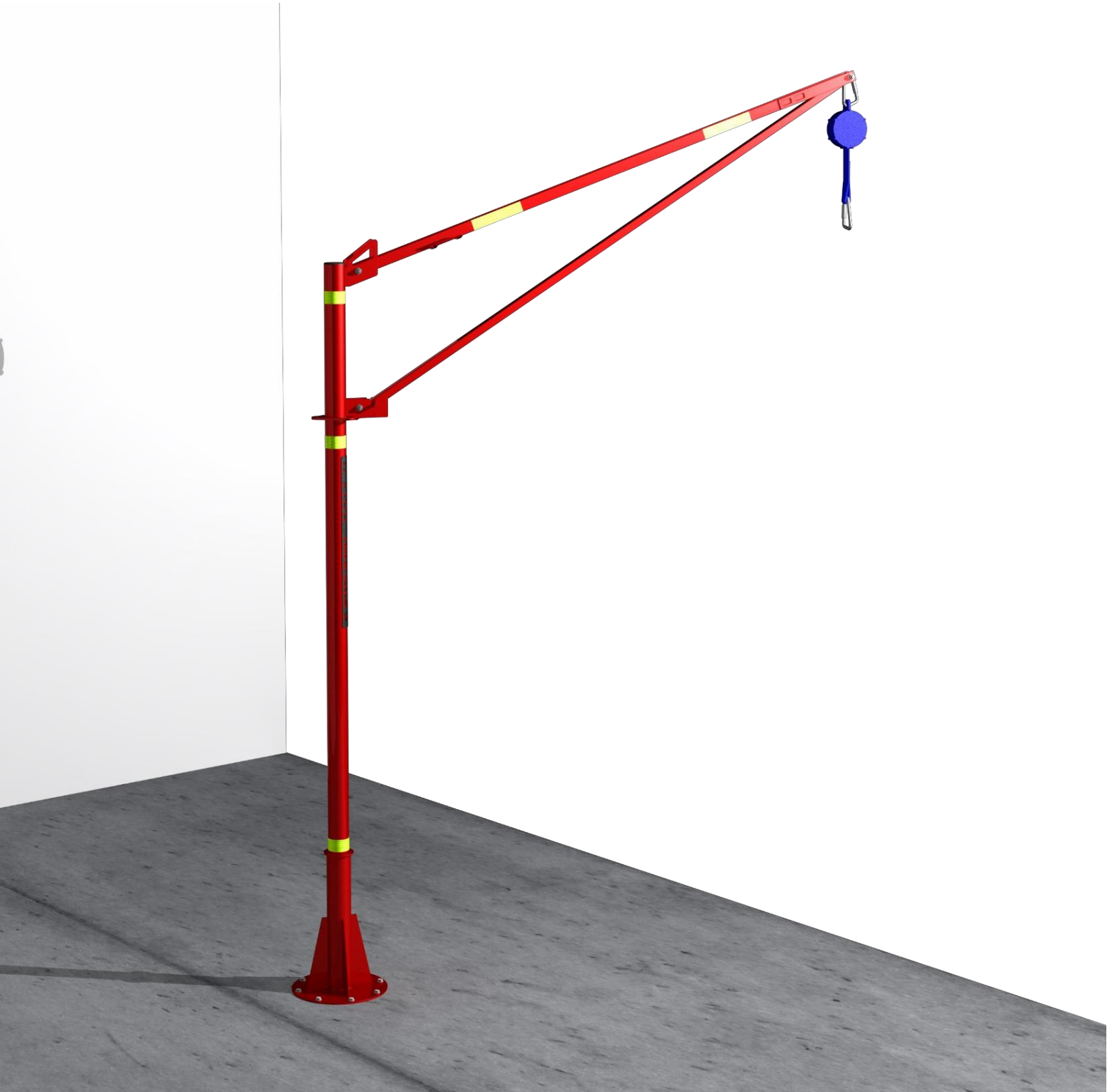


GALLOWS-TYPE FALL ARREST SYSTEM

SAFE WORK AT HEIGHTS



TECHNICAL DOCUMENTATION

ATTENTION!

BEFORE USING THE FALL ARREST SYSTEM ("GALLOWS") ALWAYS READ CAREFULLY THIS TECHNICAL DOCUMENTATION AND ACT IN ACCORDANCE WITH THE GUIDELINES SET FORTH HEREIN. THE INSTRUCTIONS ARE INTENDED FOR ALL WORKERS AND PEOPLE THAT WILL TAKE ACTIVE PART IN TRANSPORTING, UNLOADING, ASSEMBLY, DISASSEMBLY, STORAGE, INSPECTION AND ALL ACTIONS CONCERNING THE FALL ARREST SYSTEM. READING THE TECHNICAL DOCUMENTATION IS THE RESPONSIBILITY OF EACH USER!

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INTRODUCTION

This TECHNICAL DOCUMENTATION contains guidelines concerning the proper operation of the FALL ARREST SYSTEM Workers and other people performing any actions connected to the operation of the system must adhere to the guidelines. In case of any situations not set forth herein, the user shall act in accordance with health and safety regulations and other regulations applicable to a given situation. The user cannot modify the system in other ways than described in the Technical Documentation. The producer is not responsible for any modifications to the system performed in a way that was not described herein.

1. MANUFACTURING BASIS

The main purpose of the FALL ARREST SYSTEM is to increase the safety of works at heights.

The project of the FALL ARREST SYSTEM was prepared in accordance with the applicable laws and technical norms:

EN-795:2012	– Fall protection – Anchor devices
EN-360_2005P	– Personal protective equipment to prevent falls from heights – self-locking devices
EN-362_2006P	– Personal protective equipment to prevent falls from heights – connectors
EN-354_2012P	– Personal protective equipment to prevent falls from heights – safety lines
EN-361:2003	– Personal protective equipment to prevent falls from heights – safety harnesses

1.1 COMPLIANCE ASSESMENT PROCEDURE

The "gallows" type fall arrest system underwent the compliance assessment procedure in relation to the cat. III of threats (fall from heights).

There was a EU-type inspection (module B) and the compliance inspection, performed by the internal manufacturing control and supervised products' controls in random time periods (module C2).

The entity performing the compliance procedure:

*DEKRA Testing and Certification GmbH
Dinnendahlstr. 9 * 44809 Bochum * Germany,
registered: Stuttgart, HRB-Nr. 759624*



2.1 OPERATING INSTRUCTIONS

2.2 TERMINOLOGY AND DEFINITIONS

Anchoring devices:

an element or a set of elements that were equipped with anchoring point/points,

Element:

lines, tapes and anchoring elements – these are example elements of the fall arrest system

Anchoring point:

an element to which personal protection equipment can be added,

Anchoring line:

a flexible line mounted between structural anchoring points,

Safety line:

an element – e.g. tape of the self-locking device – to which personal protection equipment can be added (e.g. safety harness) – through an anchoring element (e.g. a snap ring),

Fall arrest device:

a set of elements, anchoring devices or other combination of constructional elements that protect the user from falling from height / through the edge – The fall arrest device is for example a "gallows".

Self-locking device:

a device that protects from falling with the function of self-locking and automatic stretching and rolling the safety line.

2.3 INTENDED USE AND SCOPE OF OPERATION

The "gallows" FALL ARREST SYSTEM with the personal protection equipment (harness, self-locking device) provides safety during work at height. The system's aim is to protect its user from falling from height while performing construction works (shuttering assembly, boarding, reinforcement, joint protection elements assembly etc.).

The operation of the FALL ARREST SYSTEM is permitted on condition that the user adheres to the Technical Documentation and applicable local regulations concerning occupational safety and health.



2.4 ACCEPTABLE WORK PARAMETERS

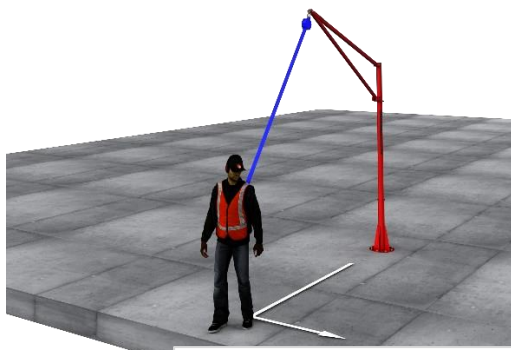
The gallows with the self-locking devices and safety harness make a set of cooperating elements of the fall arrest system. The knowledge of their operation and awareness about limitations is a necessary condition to safely use the system.

2.4.1 PENDULUM

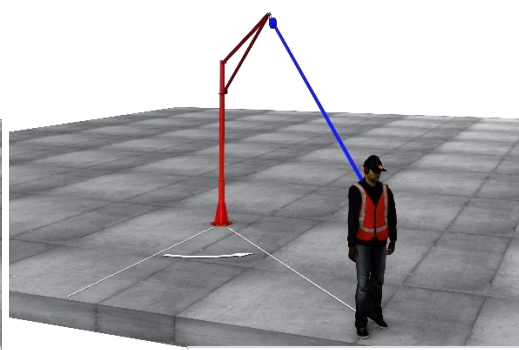
One potentially dangerous situation that happens while operating the "gallows" is the so-called "pendulum effect". It happens when the user moving perpendicularly to the edge changes the direction and starts moving along the outside edge. It causes an increase of the angle between the device's axis and the axis perpendicular to the edge (see the picture below).

If the user falls through the edge and is attached to the device, he/she starts moving like a pendulum, and the safety line touches the ceiling's edge.

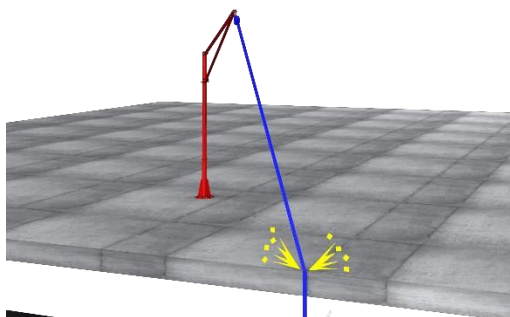
Such situation causes direct threat to the user's life and health. Such fall is not allowed by the manufacturer of standard self-locking devices and working with devices that allow such fall through an edge demands using a different type of fall arrest system, not offered herein.



... changes the direction and starts moving along the outside edge



...It causes an increase of the angle between the device's axis...



...starts moving like a pendulum and the safety line touches the ceiling's edge ...

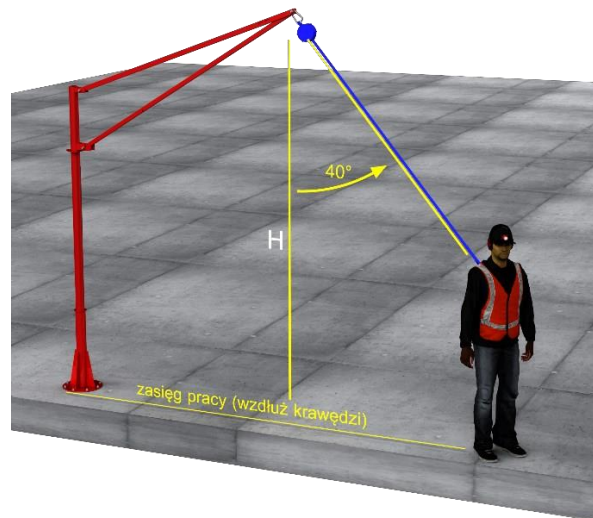


2.4.2 OPERATIONAL RANGE OF THE FALL ARREST SYSTEM

RANGE ALONG EDGES

Because of the pendulum effect, the manufacturer limited the operational range of the self-locking devices that in most common models is 40° max. swing angle from vertical.

The picture below shows the range of the gallows within the outside edge of the work area.



The gallows operational range (along the edge) results from the max. swing angle 40° and the height of the anchoring point. That range is defined by the following equation:

$$Zk = 0.83 [1 + H]$$

The table below presents operational ranges along the edge for different types of fall arrest devices.

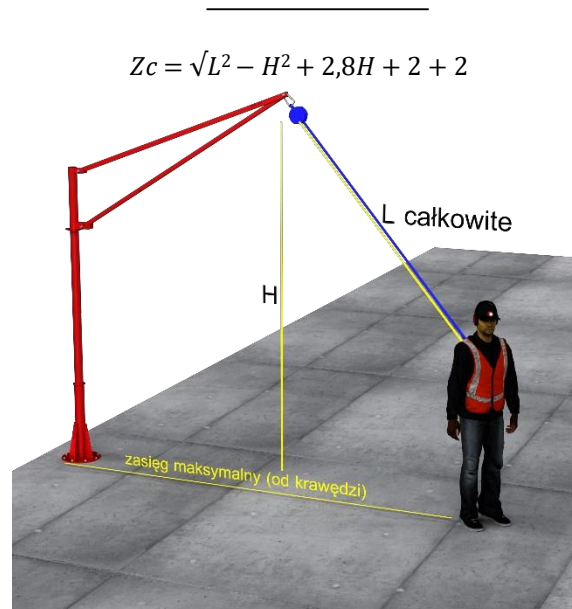
<i>device</i>	H [m]	Zk [m]
GALLOWS (concrete swamped socket)	2.82	3.2
GALLOWS (ceiling socket)	3.3	3.5
GALLOWS side socket h=1 m)	4.3	4.4



MAXIMUM RANGE

The maximum range of the gallows within ceiling (in opposite direction to its edge) results from the maximum length of the safety line L.

Maximum range is defined by the following equation:



The below table contains max. ranges for different fall arrest systems and two lengths of the self-locking devices 3.5 and 6 m.

<i>device</i>	L [m]	Zc [m]
GALLOWS (concrete swamped socket)	3.5	5.2
GALLOWS (ceiling socket)	3.5	4.9
GALLOWS side socket h=1 m)	3.5	4.0

<i>device</i>	L [m]	Zc [m]
GALLOWS (concrete swamped socket)	6	7.8
GALLOWS (ceiling socket)	6	7.7
GALLOWS side socket h=1 m)	6	7.3

[See Appendix A – "THE OPERATING SCOPE OF THE FALL ARREST SYSTEM, SPACING BETWEEN SOCKETS"](#)



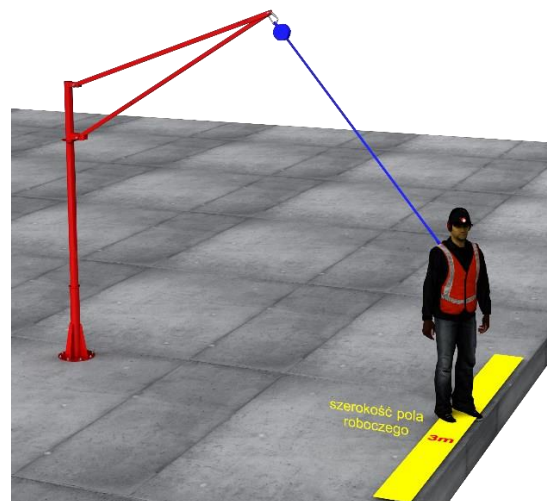
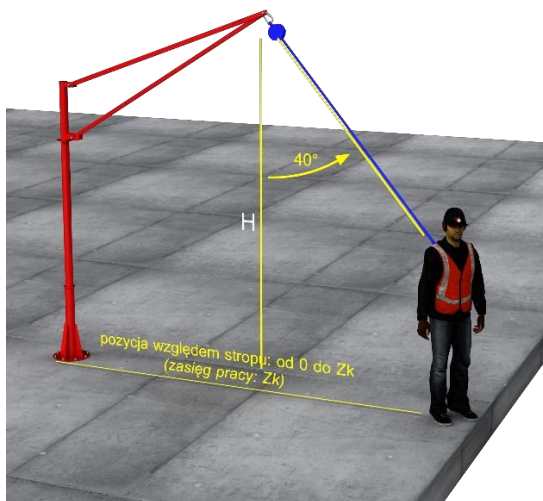
THE GALLOWS POSITION AGAINST THE CEILING

Because of the abovementioned conditions (pendulum effect, the risk of safety line contacting the edge of the ceiling), another condition concerning the position of the gallows against the ceiling should be met.

Max. recommended distance of the gallows' axis from the ceiling is the Z_k value.

For the gallows placed 2 meters from the ceiling, it is recommended that the maximum length of the ceiling edge access should not be greater than 3 m. The below pictures describe that rule in detail.

The above rule comes from the directive PPE 89/686/EEC + CNB/P/11.060 – concerning falling through the edge. Guidelines of that directive are helpful in determining safe boundaries of the fall arrest system's operation.



2.4.3 SAFE HEIGHT OVER AN OBSTACLE

The total length of a fall results from two variables:

- a) bending (vertical movement) of the anchoring point of the gallows,
- b) the length of the self-locking device's line (Lsh),

It is assumed that the maximum movement of the anchoring point is 0.7 m.

The safe distance to an obstacle is calculated for a situation when the line in the self-locking device is totally reeled out (i.e. 6 m, 3.3 m etc.)

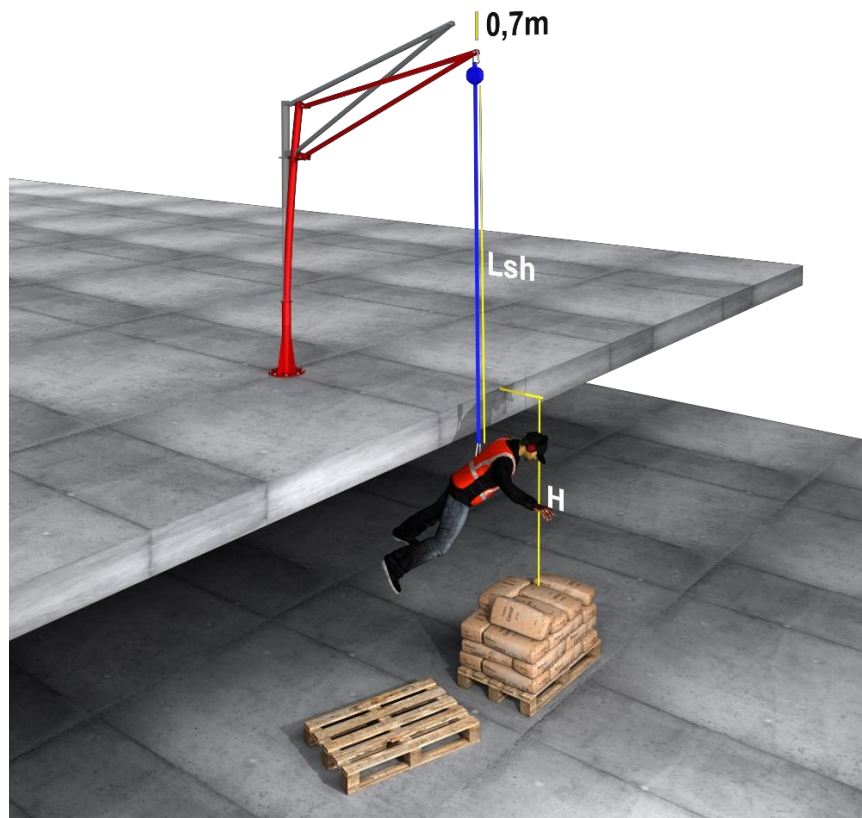
The safe distance to an obstacle may be calculated on the basis on the below dependence:

$$\frac{Lsh}{H} < 2.6$$

Lsh [m] Self-locking device's tape length.

H [m] – distance to the nearest obstacle below the level of the FALL ARREST SYSTEM'S working area.

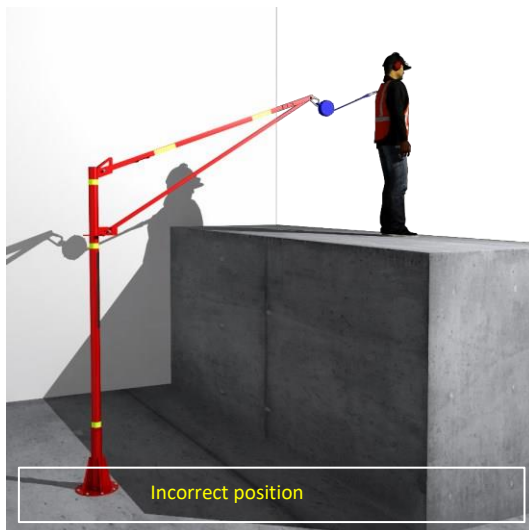
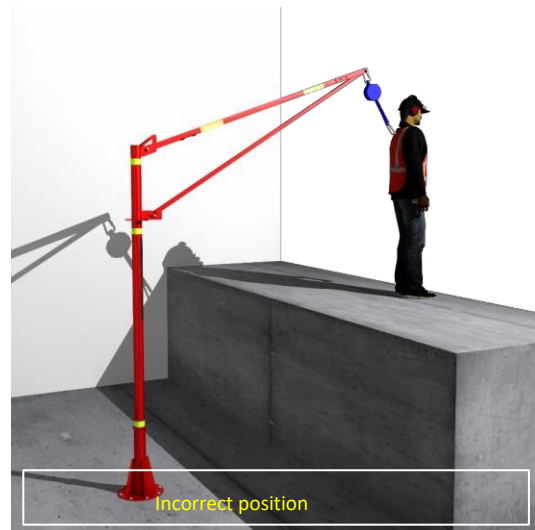
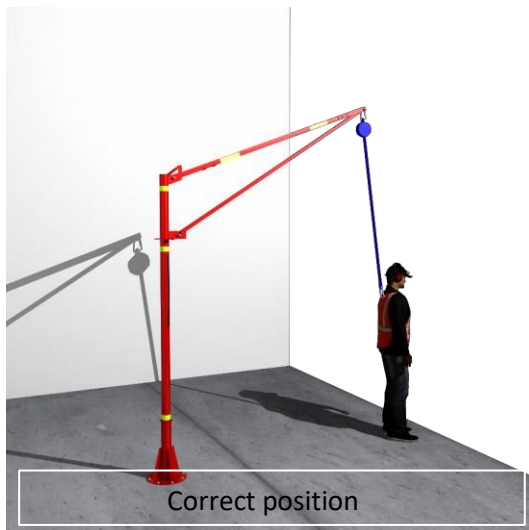
If the relation of length of the self-locking device and height of the working area over an obstacle is less than 2.6, it means that the distance from the obstacle is safe in case of a fall (with maximum reel out of the line).



2.4.4 POSITION OF THE ANCHORING POINT AGAINST THE USER.

Position of the anchoring point depends on the demands of the self-locking device, as well as factors described in 2.3.1 and 2.3.2. If the acceptable swing level of the anchoring line is 40°, the height of the anchoring point should allow to meet that requirement.

The anchoring point may not be below the user's head.



The anchoring point should be as high as possible, what broadens the gallows operating area.
 Low position of the anchoring point causes higher possibility of the pendulum effect and fall through the edge. It is a direct threat to the user's life and health.



2.5 RULES OF SAFE OPERATION

During the operation of the FALL ARREST SYSTEM, the safety of workers and other people that may be affected by the device should be of paramount importance.

THE FALL ARREST SYSTEM is dedicated only to the purposes described herein.

Using it not in accordance with the instructions is forbidden by the manufacturer.

THE FALL ARREST DEVICE protects its users against fall from heights.

Read the instructions before using the device.

Improper operation of the system may cause the risk of an accident for the user and other people in the nearest proximity.

Before operating the FALL ARREST SYSTEM, the staff should read the Technical Documentation of the system.

- The staff shall not stay near the FALL ARREST DEVICE during transport,
- The staff shall wear proper personal protective equipment,
- The staff shall remove all elements not connected to operating the device that may cause risk to the user's safety (cables, hoses, excessive material etc.)
- Only one person can be attached to one device (concerns the gallows). The lifeline system is aimed to be operated by three people (using it by more people should be consulted with the STRUMIN'S technical department).
- The device shall not be used as a provisional crane, was not designed to lift and lower materials (i.e. construction materials),
- No elements that weren't provided with the complete device shall be attached to the system (excluding the self-locking device). It may have a negative impact on mechanical parameters and cause risk while operation.
- During transport, the staff shall be careful in order to avoid potential damages to the construction elements. In case of damaging any element, it shall be immediately removed from operation.
- During assembly, the staff should act carefully and in case of damaging any part it should be immediately removed from operation and checked by a properly trained person.
- The place of operation of the device should have an emergency plan in case of an event that led to saving the user from a fall.
- The "gallows" fall arrest system was designed in order to withstand the weight of one person. In no case the device may be used to secure a few workers simultaneously. It does not concern the lifeline system that may hold up to three workers.



- If a crane was used to transport, please pay attention to the movements of the crane and keep the safe distance from the workers.
- Fall arrest device is dedicated to use as a part of the system with zero collapse rate. Check if the anchoring is above the worker and the self-locking device is stretched between the anchoring point and the worker.
- Maximum vertical swing of the anchoring point during operation shall not be greater than 0.7 m.
- During the operation of the self-locking device, check if it has correct certification.
- Personal protective equipment, protecting from a fall and used in connection with the fall arrest system must be marked with CE mark and approved to use in a given country.
- Personal protective equipment used as a part of the fall arrest system must be equipped with a device limiting the force to max. 6 kN.
- It is not recommended to use the fall arrest device by people suffering from cardiovascular disease, under the influence of alcohol or drugs and suffering from any other health conditions that may affect the mental and physical performance of the user.
- Introducing any changes or additions to the equipment / system demands a written consent from the manufacturer. Any repairs of the system's elements must be performed in accordance with the procedures described by the system's manufacturer.
- While assembling the sockets (ceiling and side), the minimum resistance of the anchoring point to pull out is 10 kN. Detailed information about it are in the part "ASSEMBLY INSTRUCTION".
- In case of reselling the fall arrest system abroad, to a different country than the country of its first use, the reseller shall provide the user's manual, conversations and periodical inspections in the language of country where the device is to be used.



2.6 SYSTEM'S CONTROL

ONGOING CONTROL

Before each use of the device, check its general technical conditions within the scope of:

- completeness of the system's elements.
- completeness of screws, connectors
- no damage to the welds,
- verification if any of the elements is not bent, broken, cut or damaged in any other way (e.g. wear of the main pole within the edge of the mounting sockets – \varnothing nominal of the pole is 76.1 mm / acceptable wear and tear: \varnothing min. 75.1 mm),
- verification of all assembly holes are unobstructed and allow to properly assemble the system,
- verification of the product's markings, checking their legibility and the lack of damages, i.e. wipe-down, tear etc.

If any of the above conditions isn't met, the user shall stop using the system and inform the manufacturer about the necessity of performing a more detailed inspection.

DETAILED INSPECTION

A detailed inspection of the fall arrest system is performed by the manufacturer or another appropriate party:

- each time before transporting the device to a construction site,
- every 12 months of operation,
- each time after a period longer than 3 months of not operating the device,
- always, when the user informs about the necessity for a detailed inspection. Every detailed inspection is subject to a fee.

PERIODICAL INSPECTION INSPECTION AFTER A FALL

In order to provide the proper operation and safety of the FALL ARREST SYSTEM, at least once every 12 months the whole system should be inspected (each and every of its elements).

The inspection must be performed by a competent person, holding required permissions.

If the FALL ARREST DEVICE turns on and saves a falling user – elements consisting parts of the device should be withdrawn from use and handed over for inspection.

The inspection shall be performed by the manufacturer or by a competent person trained by STRUMIN.



PERIODICAL INSPECTION EXPIRY DATE

The expiry date of the periodical inspection is clearly stated on the external edge of the inspections' label [term (year and month) of the next inspection]



2.7 MAINTENANCE

The elements of the FALL ARREST SYSTEM are protected by a paint system.

Cleaning and maintenance of the elements shall be performed with the use of products that not react with lacquer.

In case of any chips, they should be covered with correct coating.

2.8 QUALIFICATIONS OF THE OPERATORS

Users of the system shall:

- read the Technical Documentation of the fall arrest system – the training should be confirmed in writing,
- hold a valid OHS training,
- be trained in the scope of using individual and group protective equipment.



2.9 CONNECTING THE FALL ARREST SYSTEM WITH A SLING.

- connecting the FALL ARREST SYSTEM with a sling of a crane shall be performed only by a person holding qualifications described in 2.7 herein and crane authorizations,
- the sling may only be attached to designated places, i.e. transport bracket.

It is obligatory to check if:

- the slings were attested, contain no visible faults and are proper for the system's elements transport purposes,
- flexible connectors are not twisted or tied,
- sling connection with the transport bracket seems to be strong,
- the crane's hook is complete.

2.10 FALL ARREST SYSTEM ASSEMBLY

The assembly of the fall arrest device may be performed by a user who has read the Technical Documentation of the device. Construction manager or any other permitted person is responsible for the positioning and choosing the workplaces.

Before starting the assembly procedure, the user shall check if the device is complete and has no visible signs of damage.

During the assembly of the device, the user shall act carefully and if any element is damaged, it should be immediately replaced or handed over for inspection by a trained person.

Vertical transport shall be performed with a crane in accordance with the rules described in 2.8.

2.11 DISASSEMBLY AND TRANSPORT BETWEEN WORKPLACES

During the disassembly of the FALL ARREST DEVICE, the user shall keep all safety measures and act in accordance with the instructions.

During disassembly of the FALL ARREST DEVICE, the user shall remove all elements not belonging to the system. During transport it is forbidden to put on the safety harness.

2.12 OPERATION OF THE FALL ARREST DEVICE

During operation of the fall arrest system, the user shall keep all safety measures described in the Technical Documentation and in binding legal provisions and directives.



3.0 DEVICE REGISTER







DEVICE REGISTER				
Product name:				
Model and type / ID:	Trade name:		ID number:	
Producer:	Address:		Phone no., Email, website:	
Year of production / expiry date	Purchase date:		Date of the first use:	
Other important information (e.g. document no.)				
PERIODICAL INSPECTION AND REPAIR HISTORY				
Date:	Reason (periodical inspection or repair):	Faults, repairs and other relevant information:	Name and signature of a competent person:	Periodical inspection – next term:



PERIODICAL INSPECTION AND REPAIR HISTORY				
Date:	Reason (periodical inspection or repair):	Faults, repairs and other relevant information:	Name and signature of a competent person:	Periodical inspection – next term:



4.1 DATA PLATE

 FALL-ARREST DEVICE	
Name / Type:	GALLOWS
Serial number:	025
Year of manufacture:	2021
Weight:	32 kg
EN-795:2012, Type B  0158 P.P.H.U STRUMIN 32-084 MORAWICA 191	
	<i>Anchoring point, max. 1 person</i>
	<i>Read the safety instructions / Operation manual</i>
	<i>Use personal protective equipment (PPE)</i>
	<i>Use personal protective equipment (PPE)</i>

- Information written on a data plate allow to clearly identify each device based on its ID/serial number.
- All the documents attached to the device, such as the device's register from inspection and operating manual contain an ID/serial number written on the device in order to avoid any mistakes.
- Data plate warning field, containing text and symbols, warns and informs about possible threats while operation.

Threats

- The user shall act according to the safety instructions and wear personal protective equipment (PPE)



5.0 TABLE: DANGER → RISK → PROTECTION

L.p.	Threat	Risk	Risk assessment	Protection measures
1	Insufficient mechanical durability.	Using damaged or destroyed concrete foot.	Fall of the whole construction (the pole with the arm) Threat to health and life.	Check, control and properly store concrete feet.
		Damaging or destroying the pole due to an overload.	Fall of the whole construction (the pole with the arm) Threat to health and life.	Don't exceed the max. load Use in accordance with the Technical Documentation.
		Damaging or destroying the catching arm due to an overload.	Fall of the construction (catching arm) A threat to health and life.	Don't exceed the max. load. Use in accordance with the Technical Documentation.
		Damaging of destroying the device due to insufficient strength.	Fall from heights. Threat to health and life.	Transport only with a crane of sufficient strength.
2	Smashing, crushing	Placing foot, hand or any other part of the body under the concrete foot while lowering and assembling the device.	Cutting of, smashing or injuring any part of the body. Threat to health and life.	Stay in a safe distance from the concrete foot during its lowering and assembly. Use proper personal protective equipment.
		Moving the device through holes and gates.	Smashing or bunting the concrete foot. Threat to health and life.	Take measurements before moving through narrow hollows.
		Falling down of the foot on a surface	Smashing, pressing, injuring. Threat to health and life.	Place on a stable and level ground or attach to a structure.
	Hit	Assembly, working on a pole and concrete foot during moving, positioning, lowering and setting [SA'S].	Hitting the construction/workspace with a head or other part of the body. Threat to health and life.	Use the device in accordance with its purpose, read the Technical Documentation. Use proper personal protective equipment.
		Improper entering or leaving the concrete foot or the pole.	Hitting the construction with a head or other part of the body. Fall on dangerous elements. Threat to health and life.	Enter or leave the constructional elements directly to a ceiling or other solid surface.



3	HIT	Too fast lifting or moving of the device by a crane.	Hit the load with a head or any other part of the body. Health and life hazard.	Automatic limiter of the crane's speed while moving (the speed should not exceed 1,0 m/s) and skilful operation of the crane. Use proper personal protective equipment.
		Shakes or vibrations Dynamic load.	Hitting the construction with a head or other part of the body. Threat to health and life.	Skilful operation of the crane. Checking flexible connectors of a sling. Proper stretching of slings. Use proper personal protective equipment.
4	CONTACT WITH PARTS THAT ARE MOVING	Putting excessive load on the device, concrete foot.	Overloading and fall of the device from height. Threat to health and life.	Use in accordance with the Technical Documentation.
5	IMPROPER POSTURE, ATTACHMENT INTO HARNESS THAT PROVIDE SAFETY	Improper attachment of the safety harness or self-locking device. Detaching from the device, falling down or slipping on the surface.	Musculoskeletal disorders Hitting, breaking or injuring any part of the body. Threat to health and life.	Use proper personal protective equipment in accordance with the user manual.
6	NOT USING PERSONAL PROTECTIVE EQUIPMENT	Not attaching the anchoring points, not using the personal protective equipment before a fall from height.	Falling from the ceiling scaffolding. Threat to health and life.	Anchoring points Assembly proper equipment protecting from fall to anchoring points.
		Not using the personal protective equipment right for a given task.	Hitting, injuring, slipping, burning, electrocuting or poor visibility. Threat to health and life.	Use proper personal protective equipment for a given work Set the safe work's system.
7	FALLING OR THROWN AWAY OBJECTS	Improper securing of the elements surrounding the workspace.	Hitting, breaking, injuring or burning any part of the body. Threat to health and life.	Use proper personal protective equipment. Set the safe work's system.
ENVIRONMENTAL CONDITIONS		Striking by a lightning.	Electrocuting, burning. Hazard to health and life.	Don't use [SA'S] during storms.
		Wind	Tripping, uncontrolled twisting of the catching arm. Threat to health and life.	Don't use [SA'S] when the speed of wind is over 7 m/s.



8	ENVIRONMENTAL CONDITIONS	Icing, rain, snow or other unfavourable conditions.	Visibility limitation, slip Threat to health and life.	Don't use during unfavourable conditions.
		Temperature	Discomfort while moving. Threat to health and life.	Use in temperatures from -10 to +40°C. Use proper personal protective equipment.
9	WELDING WORKS	Avalanche breakdown	Electrocuting, burning. Threat to health and life.	Provide earthing of the device, protect electrodes' brackets from contacting the construction [SA'S] and other metal elements. Use proper personal protective equipment.
10	CHEMICAL	Use of aggressive chemicals for cleaning and maintenance of the device.	The risk of burning the body and polluting the atmosphere.	Don't use caustic substances that may burn the body, destroy the painted and zinc coating or corrode the steel and pollute the atmosphere.



6.1 DESIGNER'S STATEMENT

According to art. 20(4) of the "Building Code" I hereby declare that this project documentation for the fall arrest system was drawn in accordance with the provisions of the code, rules and guidelines of the technical knowledge (art. 20 point 4 of the 16 April 2004 Act, amending the 7 July 1994 Act – "Building Code" Journal of Laws no. 6, pos. 41/2004), binding technical and building provisions and Polish Standards and was handed in full to serve its purpose.

mgr inż. Jan Bąba
Uprawnienia budowlane do projektowania
i kierowania robotami budowlanymi
bezpieczeństwa w specjalności
konstrukcyjno-budowlanej
czytelny podpis w postaci projektanta

Projektant

designer's readable signature and seal



EU DECLARATION OF CONFORMITY NO.:

1. "Gallows" type fall arrest system (Serial No.:),
2. Name and address of the manufacturer:
PPHU STRUMIN, Kamil Strumiński, 32-084 MORAWICA
Morawica 191, NIP: 944 21 77 757,
3. This declaration was issued for the sole responsibility of the manufacturer: PPHU
STRUMIN, Kamil Strumiński,
4. Object of the declaration: "Gallows" type fall arrest system, as described in the Technical Documentation in the appendix no. 1 and no. 2 to this declaration:
"GALLOWS" – OPERATING INSTRUCTIONS.pdf"
"GALLOWS" – ASSEMBLY INSTRUCTIONS.pdf"
5. The object of this declaration complies with the provisions of the EU's standards:
Regulation (EC) No 2016/425 of the European Parliament and of the Council
6. References to the standards describing the declared compliance:

The project of the fall arrest system was prepared in accordance with the binding laws and technical norms:

EN-795:2012 – fall protection – anchoring devices
7. 7. Notified body:

*DEKRA Testing and Certification GmbH
Dinnendahlstr. 9 * 44809 Bochum * Germany,
registered: Stuttgart, HRB-Nr. 759624
performed an EU-type examination (module B) and issued an EU-type examination certificate:*

(reference to this certificate). CE 0158
8. The object of this declaration, described in Point 4., complies with the type, in accordance with the Company's production inspection system no. ZKP/STRUMIN/01 and the rules of the supervised product inspections in random time intervals).

Signing on behalf of: Kamil Strumiński, PPHU STRUMIN

Przedsiębiorstwo Produkcyjno Handlowo
Usługowe **STRUMIN**
Kamil Strumiński Morawica 191
32-084 Morawica
NIP 944-21-77-757 REGON 120827987
tel. 515 488 585 STRUMIN.PL



(place and date of issuing):
MORAWICA
03-12-2021

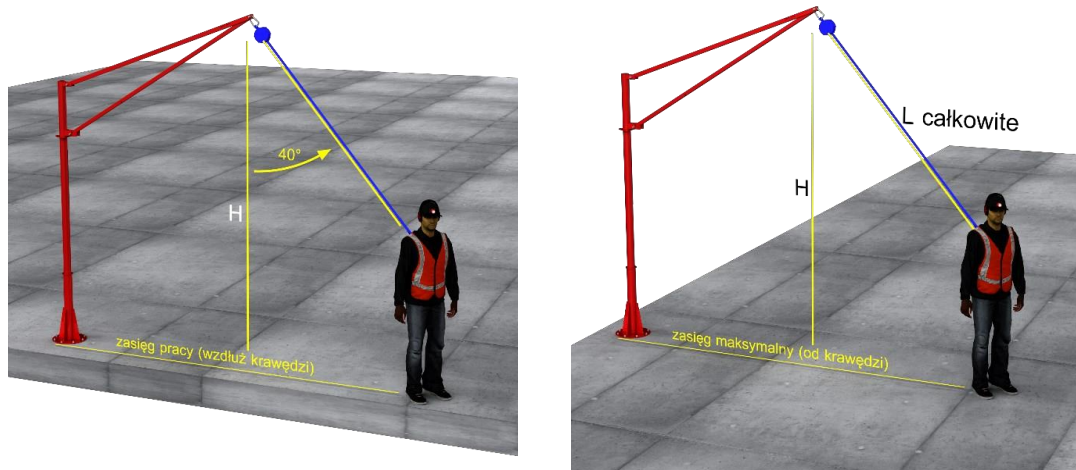


APPENDIX [A]

THE OPERATING SCOPE OF THE FALL ARREST SYSTEM, SPACING BETWEEN SOCKETS

1.0 CONCRETE SWAMPED SOCKET – SCOPE OF OPERATION, SPACING BETWEEN SOCKETS

The pictures below show the relation between "the gallows range along the edge" and the maximum range "from the edge".



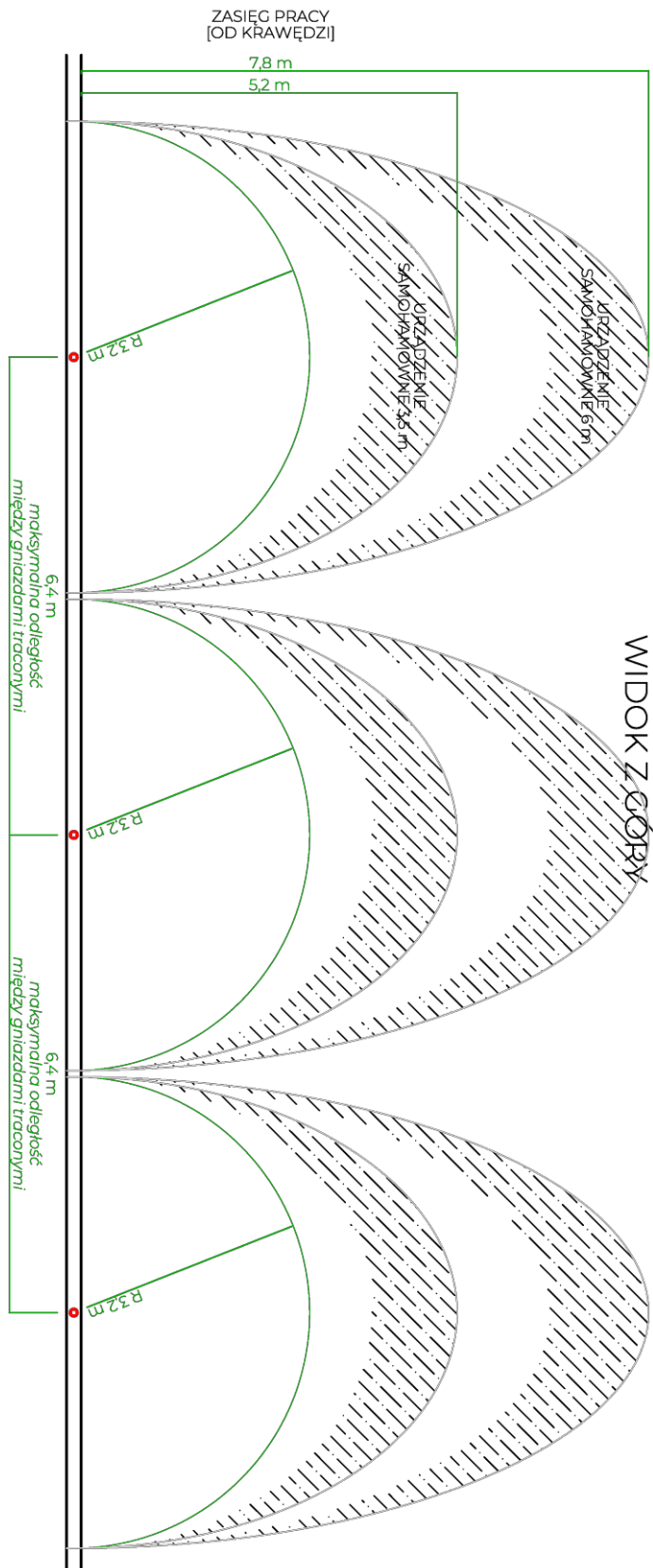
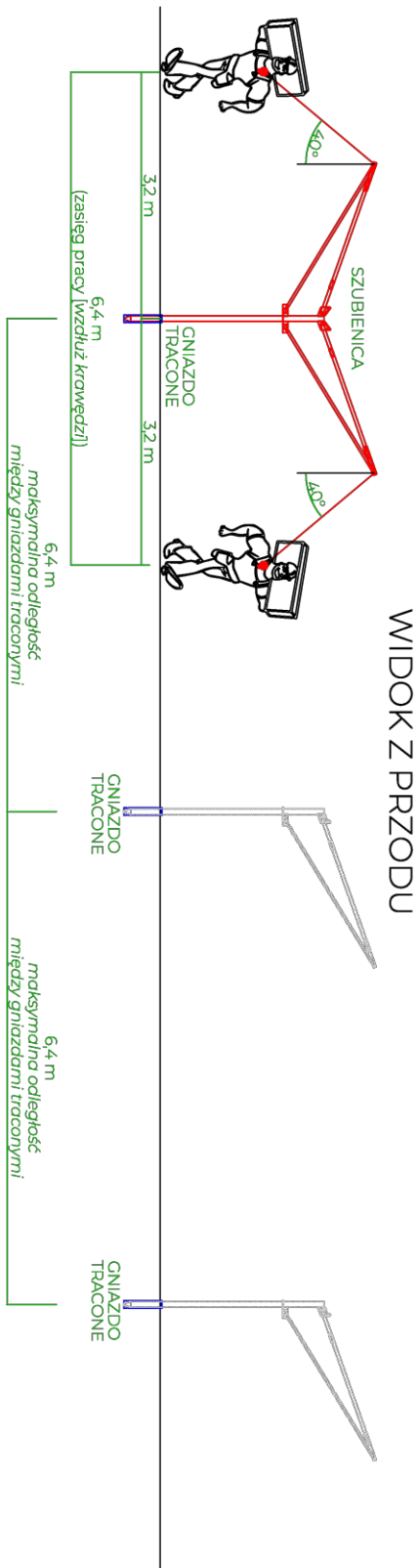
[See picture "A"](#)

2.0 CEILING SOCKET – SCOPE OF OPERATION, SPACING BETWEEN SOCKETS

[See picture "B"](#)



PICTURE "B"



WIDOK Z BOKU

