

Operation and Maintenance Documentation

Aluminum Container Stairs



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Item	NAME AND SURNAME	DEPARTMENT	DATE OF CHANGE	SCOPE OF REVISION	NOTES
1	Sebastian Figura	R&D	28.05.2026	Document update	
2					
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1. General Guidelines

Each time before starting installation works with aluminium container stairs, make sure to become acquainted with this Operations and Maintenance Documentation (abbr. OMD). OMD informs about the method of assembly of the stairs, their operational use, maintenance, and conditions of safety during use. OMD presents the method of installation, use and maintenance of container stairs. During the assembly, dismantling, operational use and maintenance of container stairs, always observe the guidelines included in the operating and maintenance documentation and the HS&E regulations.

2. The subject matter of OMD

The subject matter of this operating and maintenance documentation is the information about the method of assembly, dismantling, operational use, maintenance and safety of use of the container stairs system by TLC, which consist of modules, such as flights of stairs, landings, barriers, poles, supports.

3. The intended use of aluminum container stairs

The container stairs system is a temporary structure designed according to EN ISO 14122-3 standard. It is designed to provide communication between levels of stackable office, warehouse and sanitary containers at the construction site.

The aluminum container stairs system by TLC is easy to assemble and durable, and simplicity of its assembly results from the limited number of connectors, such as bolts, nuts, and use of the intuitive system of assembly of stairs, barriers and poles.

4. Technical description

- The allowed distributed load on landings and stairs: 2 kN/m²
- The allowed concentrated load on landings and stairs: 1.5 kN on 200x200 mm
- The allowed load on the barrier: 0.5 kN/m
- The operational widths of stairs and landings:
 - Version 1000 mm
 - Version 1200 mm
- Types of barriers
 - Heavy-duty version
 - Safe version
- Material – Aluminum 6082, 6060, 5754 h22
 - Steel S355 JR

The stairs are installed to the container with supports and are supported on poles. To ensure the proper assembly and use, the stairs should be installed on a level concrete base. Due to the temporary nature, installation of reinforced concrete slabs or concrete blocks is allowed. When blocks are used, the necessary condition is that they are seated in hardened, well-drained, gravel base, in a reliable and stable way.

5. HS&E guidelines

GENERAL PROVISIONS

- a) During the installation of container stairs, people may be employed who fulfil the following conditions:
 - Admission to work on height by a physician, good health condition
 - 18 years of age or older,
- b) Conditions for admission to work:
 - The employee must be sober and rested,
 - The employee should wear working clothing and should have attested safety equipment, such as harness, cords, etc.

- c) Due to the dimensions and weight of the components, special care should be maintained during transportation, installation and use of the stairs.
- d) These instructions should be kept as the source of information for the stairs users and maintenance personnel.
- e) The producer shall not be responsible for any damage resulting from improper assembly of the product or using it contrary to its planned use.
- f) The stairs are intended for use under industrial conditions, i.e. used by adult persons who follow HS&E regulations, are trained and are not under the influence of alcohol or other intoxicants.
- g) The stairs must not be used by people with the combined weight exceeding the allowed load.
- h) The stairs should not be used for transporting any objects other than tools, instruments, etc.

ASSEMBLY OF THE CONTAINER STAIRS

- a) Before starting the assembly of the stairs, make sure to become acquainted with the technical documentation and the guidelines of the construction manager.
- b) During preparation of materials, check whether the metal elements are not rusted or bent.
- c) Define and mark the area around the zone for assembly of the container stairs.
- d) Check whether the containers, to which the stairs are to be installed, are set on stable ground, and whether their position against each other is proper.
- e) During execution of work at the height, employees should be secured with harness safety, fixed to solid elements of structure.
- f) The structure of the stairs should be assembled in accordance with the operational and maintenance documentation and with the approved design.
- g) It is recommended for the aluminum container stairs to provide the appropriate earthing protection against atmospheric discharges according to *PN-HD 60364-5-54:2011; PN-EN 50522:2011; PN-EN 62305-3:2011; PN-EN 62561-2:2012*

The earthing should be done by a person eligible for assembly of this kind of installation. You can use the existing screw connections as assembly points.

- h) The container stairs may be used after commission by the technical supervision, confirmed with the relevant record.
- i) It is forbidden to modify any elements of the system and assemble them at variance with the operating and maintenance documentation.
- j) It is forbidden to assemble the system if the containers are incorrectly set against each other, as it may result in setting the elements of the system incorrectly, which may pose a hazard for its users.

DISMANTLING WORKING LANDINGS.

- a) The employees who take part in dismantling the container stairs must use attested safety harness.
- b) Dismantling of the stairs shall be always conducted in the reverse order than that of assembly.
- c) Before starting the dismantling, define the safety zone (in the distance of not less than 6 m from the place of dismantling).

FINAL PROVISIONS

- a) It is forbidden to assemble and dismantle the container stairs:
 - At dusk, if proper lighting is not provided,
 - During fog, rainfall, black ice
 - During the storm and wind of more than 10 m/s,
 - Close to nearest power lines, at a distance shorter than:
 - LV line: 2 m
 - HV line up to 15 kV: 5 m
 - HV line up to 30 kV: 10 m
 - HV line over 30 kV: 15 m
- b) During operational use, supervision personnel should periodically check the condition of the bolted connections.

- c) All accidents at work should be reported with the direct superior, and the workplace should remain in the original condition as at the time of the accident.
- d) If the assembly worker feels unwell, they should report it to their superior and obtain a release from work at height..

6. Classification and guidelines of periodical inspections of engineering structures.

Components of the structure, as well as the entire structure, require inspection due to operating conditions and the use of welded, clinched, or bolted connections. The inspection should be conducted regarding:

- completeness of the system,
- condition and completeness of fasteners,
- weld damages,
- deformations, cracks, cuts, or other damages to components,
- condition of the anti-corrosion coating,
- openness of assembly and drainage holes,
- use of correct components belonging to the given system.

The purpose of the routine inspection is to identify damages that:

- pose a direct threat to the safety of users;
- clearly reduce the comfort of use of the structure or its surroundings;
- indicate the necessity of performing an emergency detailed inspection.

In case any irregularities in the structure or its components are found during the inspection, they must be immediately excluded from use and necessary repairs must be made by replacing the damaged elements with spare parts provided by the system manufacturer. Independent repairs of the structure or its components are not permitted without obtaining permission and approval of the repair method from the manufacturer.

Losses in the anti-corrosion coating should be repaired in a manner adequate to the type of coating used. The manufacturer allows repairs of anti-corrosion coatings provided that they are performed in accordance with the provisions of PN-EN ISO 1461, point 6.3 for hot-dip galvanized products, or the PN-EN ISO 12944 series of standards for painted products.

With regard to the period of execution, we distinguish the following types of inspections:

A. Routine Daily Inspection

The daily inspection is carried out by the users of the structure. It is a visual check aimed at assessing the condition of the elements and the structural integrity in the event of the occurrence of:

- irregularities in the executed assembly or anchoring of structural elements,
- damages related to the occurrence of random events, such as gales, storms, floods, fires, etc.,
- mechanical damages caused, for example, by the impact of moving objects,
- damages to elements caused by operational factors,
- damages to elements that have not been reported.

B. Weekly Inspection

The weekly inspection must be performed by a competent person possessing appropriate technical knowledge. The inspection is conducted to assess the condition of the elements and the structure with respect to deformations, damages, and the condition of the anti-corrosion surface. The purpose of the inspection is to assess whether any changes have occurred in the structure and its elements that could pose a threat.

C. Detailed Inspection

A detailed inspection should take place:

- in case of detecting damages during a daily or weekly inspection,
- before delivery of the structure or its elements to the construction site,
- every 12 months of operational use,
- after a prolonged period of non-use system,
- in the event of an accident,
- at the client's request.

The inspection must be carried out by a competent person possessing appropriate technical knowledge. The results of the inspection must be documented in the form of an inspection report.

7. Handover, approval for use

After completion of the proper assembly of the aluminium container stairs, the structure should be inspected. Check:

- tightening of all bolted connections,
- correctness of anchor installation,
- correctness of handrail installation.

The use of aluminium container stairs is permissible after handover by the technical supervision, confirmed with the relevant protocol.

The condition of the anti-corrosion coating should also be inspected for damages resulting from the installation; if any damages to the coat are found, the damaged item should be replaced or subjected to repair.

8. Declaration of Performance

TLC provides a Declaration of Performance for each landing platform. The following is a specimen of such a document.



DEKLARACJA ZGODNOŚCI / DECLARATION OF CONFORMITY / DÉCLARATION DE CONFORMITÉ Zgodnie z / in accordance with / Conformément à PN-EN ISO/IEC 17050-1

Nr / No. / N°: 01/06/2026

[PL] Producent: [EN] Manufacturer [FR] Fabricant	TLC sp. z o.o.
[PL] Adres [EN] Address [FR] Adresse	ul. Chopina 25N, 38-300 Gorlice, POLAND
[PL] Wyrób [EN] Product [FR] Produit	[PL] Schody kontenerowe aluminiowe SK3 [EN] SK3 Aluminium Container Staircase [FR] Escalier en aluminium pour conteneurs SK3
[PL] Typosereg [EN] Type series [FR] Gamme de types	[PL] System schodów kontenerowych aluminiowych jest konstrukcją tymczasową projektowaną zgodnie z normą EN ISO 14122-3. Przeznaczony jest do zapewnienia komunikacji pomiędzy poziomami piętrowanych kontenerów biurowych, magazynowych, sanitarnych na placu budowy. [EN] The aluminium container staircase system is a temporary structure designed in accordance with EN ISO 14122-3 standard. It is intended to provide safe access between the levels of stacked office, storage and sanitary containers on construction sites. [FR] Le système d'escalier en aluminium pour conteneurs est une structure temporaire conçue conformément aux normes EN ISO 14122-3. Il est destiné à assurer la circulation entre les niveaux de conteneurs empilés à usage de bureaux, de stockage et de sanitaires sur les chantiers de construction. [PL] Warianty: [EN] Options: [FR] Variantes : SK3-VAR1-1.1; SK3-VAR1-1.25 SK3-VAR3-1.1; SK3-VAR3-1.25; SK3-VAR3M SK3-VAR4-1.1; SK3-VAR4-1.25; SK3-VAR4A-1.1; SK3-VAR4A-1.25; SK3-VAR4B-1.1; SK3-VAR4B-1.25 SK3-VAR5-1.1; SK3-VAR5-1.25 SK3-VAR7-1.1; SK3-VAR7-1.25 SK3-VAR8-1.1; SK3-VAR8-1.25 SK3-VAR10-1.1; SK3-VAR10-1.25 [PL] Oznaczenie i numer seryjny umieszczone są na etykiecie każdego produktu. [EN] The product designation and serial number are provided on the label of each individual product. [FR] La désignation du produit et le numéro de série sont indiqués sur l'étiquette de chaque produit.
[PL] Podstawowa konfiguracja wyrobu [EN] Basic product configuration [FR] Configuration de base du produit	[PL] Podstawowa konfiguracja wyrobu zgodnie z instrukcją obsługi [EN] Basic product configuration in accordance with the operating instructions [FR] Configuration de base du produit conforme à la notice d'utilisation [PL] Konfiguracja ilościowa i rodzajowa zgodnie z zamówieniem [EN] Quantity and type configuration according to the order [FR] Configuration quantitative et fonctionnelle conforme à la commande [PL] Podzespoły: Zgodnie z typoszeregiem [EN] Components: According to the type series [FR] Sous-ensembles : conformément à la gamme de types
[PL] Informacje dodatkowe [EN] Additional information [FR] Informations complémentaires	[PL] Przewidywane zastosowanie wyrobu: [PL] System schodów kontenerowych aluminiowych jest konstrukcją tymczasową projektowaną zgodnie z normą EN ISO 14122-3. Przeznaczony jest do zapewnienia komunikacji pomiędzy poziomami piętrowanych kontenerów biurowych, magazynowych, sanitarnych na placu budowy. [EN] Intended use of the product: [EN] The aluminium container staircase system is a temporary structure designed in accordance with EN ISO 14122-3 standards. It is intended to provide safe access between the levels of stacked office, storage and sanitary containers on construction sites. [FR] Utilisation prévue du produit : [FR] Le système d'escalier en aluminium pour conteneurs est une structure temporaire conçue conformément aux normes EN ISO 14122-3. Il est destiné à assurer la circulation entre les niveaux de conteneurs empilés à usage de bureaux, de stockage et de sanitaires sur les chantiers de construction. [PL] Materiały: Stal: aluminium 6082, 6060 T2, 6061, 5754 H22, S235JR, S355MC, S355J2C+N [EN] Materials: Steel: aluminium 6082, 6060 T2, 6061, 5754 H22, S235JR, S355MC, S355J2C+N [FR] Matériaux : Acier : aluminium 6082, 6060 T2, 6061, 5754 H22, S235JR, S355MC, S355J2C+N [PL] Reakcja na ogień: A1 wg PN-EN 13501-1 [EN] Reaction to fire: A1 as per PN-EN 13501-1 [FR] Réaction au feu : A1 selon la norme PN-EN 13501-1

TLC Sp. z o.o. registered in: XII Economic Department of the National Court Register, District Court in Cracow - Śródmieście; fully paid-up share capital in the amount of PLN 613 332,00 PLN.

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[PL] Trwałość: aluminium – NPD, S235JR: $\geq 27\text{ J}$ [20°C], S355J2+N: $\geq 27\text{ J}$ [-20°C], S355MC: acc.to EN 10149-2 [EN] Durability: aluminium – NPD, S235JR: $\geq 27\text{ J}$ [20°C], S355J2+N: $\geq 27\text{ J}$ [-20°C], S355MC: acc.to EN 10149-2 [FR] Durabilité: aluminium – NPD, S235JR: $\geq 27\text{ J}$ [20°C], S355J2+N: $\geq 27\text{ J}$ [-20°C], S355MC: acc.to EN 10149-2 [PL] Szczegóły: wg rysunku technicznego [EN] Details: As per the technical drawing [FR] Détails: selon le dessin technique [PL] Na potrzeby klienta udostępniane są: Certyfikat FPC, Certyfikat kwalifikacji spawalniczej [EN] Available upon customer request: FPC certificate, Welding Qualification Certificate [FR] Mis à disposition à la demande du client: Certificat FPC, certificat de qualification de soudage

[PL] Producent deklaruje na wyłączną odpowiedzialność, że przedmiot niniejszej deklaracji, opisany powyżej, został zaprojektowany i wykonany zgodnie z dokumentacją oraz spełnia wymagania następujących dokumentów: [EN] The manufacturer declares, under his sole responsibility, that the subject of this declaration described above has been designed and manufactured in accordance with the documentation and complies with the requirements of the following documents: [FR] Le fabricant déclare, sous sa seule responsabilité, que l'objet de cette déclaration décrit ci-dessus a été conçu et fabriqué conformément à la documentation et est conforme aux exigences des documents suivants :		
Nazwa dokumentu Document Name Nom du document	Tytuł Title Titre	Wydanie Revision Révision
-	Dokumentacja konstrukcyjna / Design / Construction Documentation / Documentation de conception	-
-	Dokumentacja Techniczna – Ruchowa / Operation & maintenance manual / Manuel d'utilisation et d'entretien	-
-	Instrukcja montażu schodów kontenerowych aluminiowych / Installation Manual for Aluminium Container Staircases / Manuel d'installation des escaliers en aluminium pour conteneurs	-
EN ISO 14122-3	Bezpieczeństwo maszyn – Stałe środki dostępu do maszyn – Część 3: Schody, drabiny schodkowe i balustrady / Safety of Machinery – Permanent Means of Access to Machinery – Part 3: Stairs, Stepladders and Guard-rails / Sécurité des machines – Moyens d'accès permanents aux machines – Partie 3 : Escaliers, échelles à marches et garde-corps	-
PN-EN ISO 13920	Tolerancje ogólne dla konstrukcji spawanych: wymiary liniowe i kątowe z tolerancjami / General tolerances for welded structures: linear and angular dimensions with tolerances / Tolérances générales pour les structures soudées : dimensions linéaires et angulaires avec tolérances	-
PN-EN 13501-1	Klasyfikacja ogniw wyrobów budowlanych i elementów budynków – Część 1: Klasyfikacja na podstawie wyników badań reakcji na ogień / Fire classification of construction products and building elements. Part 1: Classification based on reaction to fire test results / Classification au feu des produits de construction et des éléments de bâtiment – Partie 1 : Classification basée sur les résultats des essais de réaction au feu	-

[PL] Niniejsza deklaracja zgodności jest zgodna z normą europejską EN 17050-1 „Ocena zgodności – Deklaracja zgodności składana przez dostawcę”.

[EN] This declaration of conformity is in accordance with the European Standard EN 17050-1 "Conformity assessment – Supplier's declaration of conformity".

[FR] Cette déclaration de conformité est établie conformément à la norme européenne EN 17050-1 « Évaluation de la conformité – Déclaration de conformité du fournisseur ».

[PL] Podpisano w imieniu i z upoważnienia producenta:

Specjalista ds. ZKP

[EN] Signed for and on behalf of the manufacturer:

FPC Specialist

[FR] Signé pour et au nom du fabricant :

Spécialiste FPC

Ewelina Zaher-Petit
TLC
Ewelina Zaher-Petit
Specjalista ds. ZKP

Gorlice, 03.06.2026

(Miejsce i data wydania)/(Place and date)/(Lieu et date de délivrance)

(Podpis osoby upoważnionej)/(Signed by)/(Signature de la personne autorisée)

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9. Transport and storing

To protect against mechanical damage and to obtain the longest durability of the elements of the aluminium container stairs system, they should be stored when not in use in a closed and dry room.

To avoid damage to the system elements, it is recommended to store them properly with the use of spacers and pads that ensure free space between individual elements, which prevents their damage.

Storage and transport of the stairs

- The stairs should be stored on spacers with a minimum height of 50 mm. Maximum 4 flights may be stacked.
- Transported stacked flights should be protected by fastening with belts

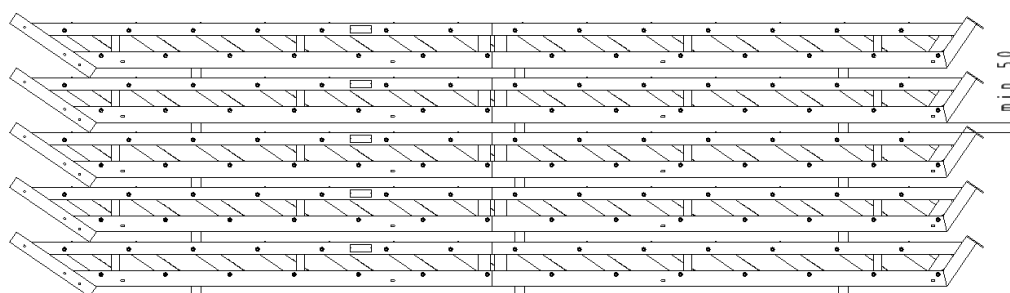


Figure 1. Storing the stairs

- Loading and unloading of the stairs can be performed using a crane. For this purpose, 4-leg web slings must be used. Sling angle $\beta = 45-60^\circ$

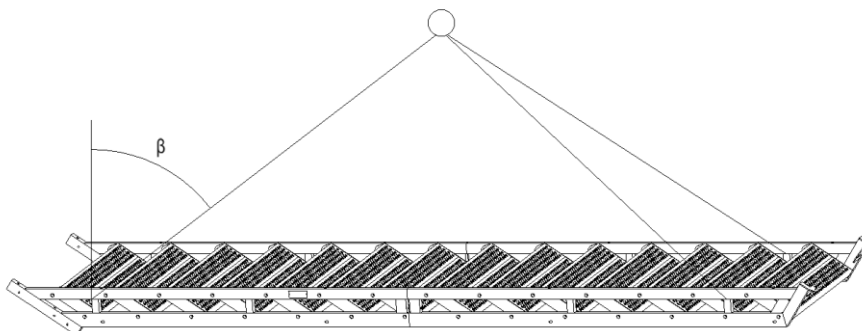


Figure 2. Lifting the stairs

Storing landings

- The landings should be stored on spacers with a minimum height of 20 mm. Maximum 10 landings may be stacked.
- When landings are transported stacked, they should be protected by fastening with belts.

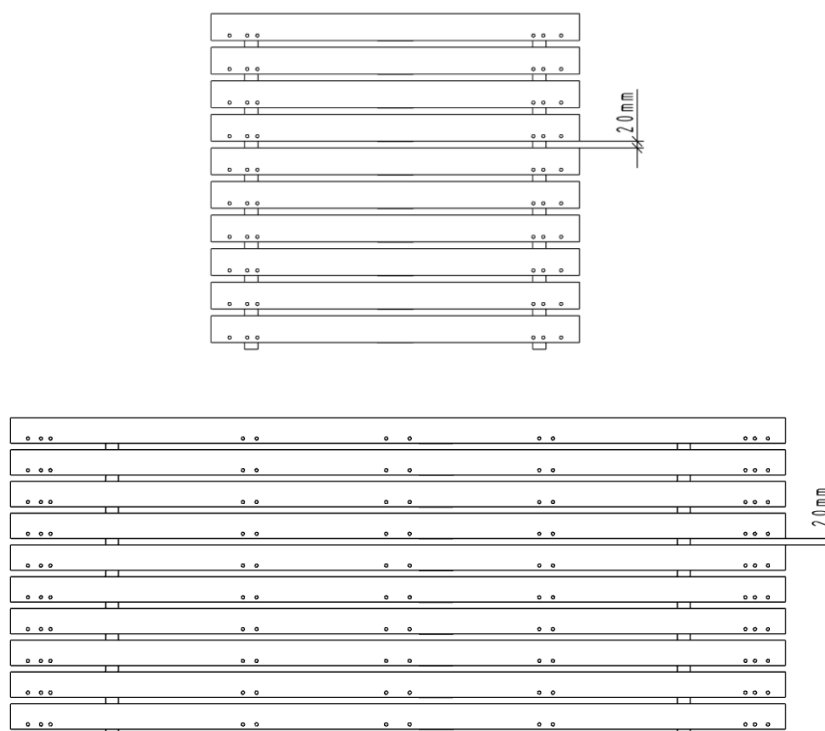


Figure 3. Storing landings

Storing Barriers

- Handrails may be stored horizontally and vertically.
- When storing vertically, secure support must be provided in the form of a steel frame, i.e., a container, a basket, or a wall. Handrails should be placed next to each other, keeping in mind that the angle of inclination of the barrier against the support α is about 10° .

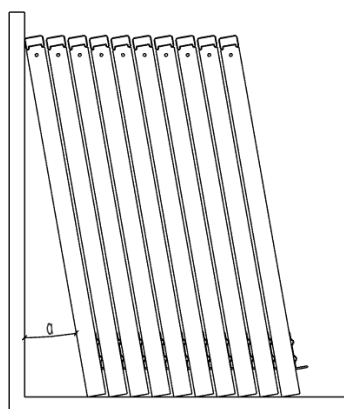


Figure 4. Vertical storage of the barriers

- When storing horizontally, a distance between the handrails with a thickness of min. 10 mm must be provided.
- A maximum of 15 railings may be stacked.
- During transport, handrails must be stacked horizontally and then secured by fastening with belts.

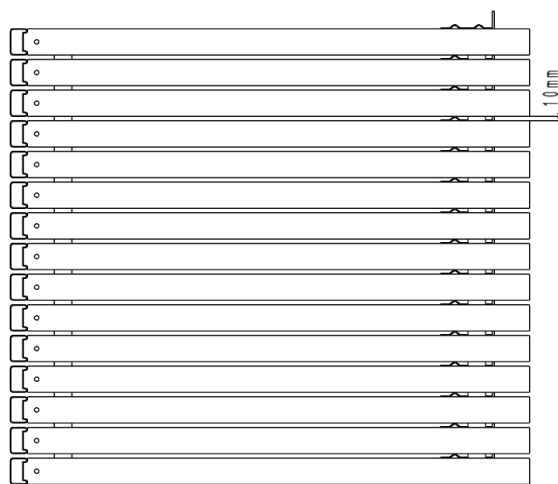


Figure 5. Horizontal storage of barriers

Storage of brackets

- Brackets should be stored in layers of two units each, with subsequent layers cross-stacked relative to the previous one.
- The distance between the floor and the first layer should be min. 60 mm, and min. 30 mm between the subsequent layers.
- Maximum 15 layers may be stacked.
- Transported stacked brackets must be secured by fastening with belts.

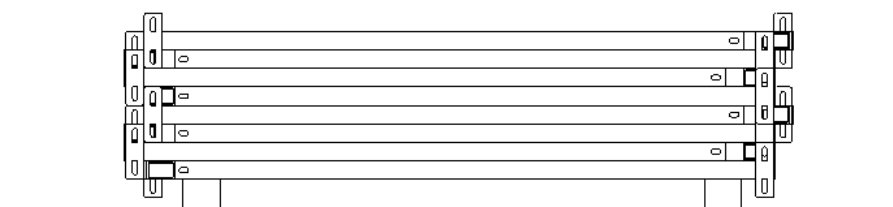


Figure 6. Storage of brackets

Storage of posts

- Posts should be stored in transport baskets in layers separated by spacers with a thickness of min. 10 mm.

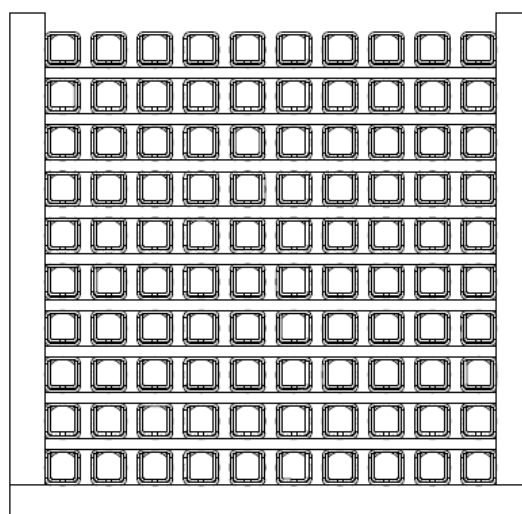


Figure 7. Storage of posts

9. Disposal

Packaging and used equipment should be stored, managed, or disposed of in accordance with the applicable recommendations and requirements set forth in the Waste Act of April 27, 2001 (Journal of Laws 2001, No. 62, item 628) as amended.

10. Annexes

The list of annexes to the Operational and Maintenance Documentation:

- Annex no. 1. Assembly instructions
- Annex no. 2. Declaration of Performance
- Annex no. 3 - Statement