



Instruction manual

DE – ACHTUNG: Die Verwendung des INNOTECH-Produkts ist erst zulässig, nachdem die Gebrauchsanleitung in der jeweiligen Landessprache vollständig gelesen und verstanden wurde.

EN – ATTENTION: Use of the INNOTECH product is only permitted after the instruction manual has been read and fully understood in the respective language.

IT – ATTENZIONE: L'utilizzo del prodotto INNOTECH è permesso solo previa lettura e comprensione dell'intero manuale di istruzioni nella lingua del relativo paese di utilizzo.

FR – ATTENTION : L'utilisation du produit INNOTECH n'est autorisée qu'après avoir entièrement lu et compris la notice d'utilisation dans la langue du pays concerné.

NL – ATTENTIE: Dit INNOTECH-product mag pas gebruikt worden nadat u de gebruikershandleiding in de taal van het betreffende land gelezen en begrepen hebt.

ES – ATENCIÓN: Se autorizará el uso de los productos INNOTECH una vez que se hayan leído y entendido las instrucciones de uso en el idioma del país.

PT – ATENÇÃO: O uso do produto INNOTECH apenas é permitido depois de ter lido e compreendido na totalidade as instruções de uso na respetiva língua nacional.

DK – GIV AGT: Du må først bruge et produkt fra INNOTECH, efter du har læst og forstået brugsvejledningen i fuldt omfang i dit lands sprog.

SV – O B S : Denna INNOTECH-produkt får inte användas förrän bruksanvisningen på respektive lands språk har lästs igenom och förstås.

CZ – POZOR: Práce s výrobkem INNOTECH je povolena teprve po kompletním přečtení a porozumění návodu k použití v jazyku daného státu.

PL – UWAGA: Produkty firmy INNOTECH mogą być używane dopiero po dokładnym zapoznaniu się z całą instrukcją obsługi w ojczystym języku.

SL – POZOR: Uporaba izdelka INNOTECH je dovoljena šele po tem, ko ste navodila prebrali v celoti v ustreznem jeziku svoje dežele in jih tudi razumeli.

SK – POZOR: Produkt INNOTECH môžete používať až po prečítaní a porozumení celého návodu na použitie pre príslušnú krajinu.

HU – FIGYELEM: Az INNOTECH termékek használata csak azt követően engedélyezett, hogy saját nyelven elolvasta és megértette a teljes használati utasítást.

TR – DİKKAT: INNOTECH ürününün kullanımına ancak ilgili ülkenin dilinde sunulmuş olan kullanım kılavuzunun tamamen okunmasından ve anlaşılmasından sonra izin verilir.

ZH – 注意: 只有在仔细阅读并完全理解了当地语言的使用说明后，才能使用 INNOTECH 公司的产品。

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Warning/danger information

For an IMMEDIATE threat of danger that can cause serious physical injuries or death.



For a POTENTIALLY dangerous situation that can cause serious physical injuries or death.



For a POTENTIALLY dangerous situation that could lead to minor physical injuries and damage to property.



Wear gloves.



Wear safety spectacles.

**Supplementary information/instructions**

Correct



Incorrect



Comply with manufacturer's instructions/applicable instruction manuals.

Comply with the following safety instructions and the latest state of the art.

3.1 GENERAL

- The restraint system may be installed only by specialised experts familiar with the restraint system, and in compliance with the current state of the art.
- The protective equipment may be used only by people who:
 - are trained in the use of “personal protective equipment” (PPE).
 - are in good physical and mental health. Medical conditions such as cardiovascular problems, intake of medicines, consumption of alcohol, etc. negatively affect the safety of the user.
 - are familiar with the locally applicable safety regulations.
 - understand and accept the options, restrictions, and risks in the use of the protective equipment.
- Adhere to the respective accident prevention regulations (e.g. working on roofs) when installing/using the restraint system.
- A plan must be available that specifies rescue procedures for all possible emergencies.
- Before starting work, ensure that no objects can fall to the ground from the work site. The area below the work site (pavement, etc.) must be kept clear.
- Plan, install, and use the anchorage point in such a manner that no fall over the edge is possible if the personal protective equipment (PPE) is used properly. (See planning documents at www.innotech.at).
- For the access to the roof securing system, the positions of the attachment devices must be documented by means of diagrams (e.g. top view of the roof).
- If, following certification of the safety equipment, structural works are carried out in the immediate vicinity of the restraint system, it must be ensured that these works in no way affect the integrity of the installed restraint system. Where there is any doubt, consult a structural engineer or the manufacturer.
- After a load from a fall, and the resulting strain, you must stop using the safety system, and have it checked by a specialised/competent expert (component parts, fastening to the substructure, etc.).
- Do not make any changes to the restraint system.
- If used on sloping roofs, roof avalanches (ice, snow) must be prevented by the use of suitable devices to hold back snow.

- If you provide the restraint system to external contractors, understanding of this instruction manual must be confirmed in written form.
- If the equipment is sold to another country, the instruction manual must be provided in the respective national language.
- Comply with the local lightning protection regulations.

3.2 FOR INSTALLERS: FOR SAFE ASSEMBLY

- All stainless steel bolts must be greased with a suitable lubricant before installation (included: Weicon AntiSeize ASW 10000 or equivalent quality)
- Ensure that stainless steel does not come into any contact with swarf or steel tools, as this may lead to corrosion.
- Document the professional attachment of the restraint system to the building structure with dowel logs and photos of each fitting situation.
- The installers must ensure that the substructure is suitable for attaching the anchorage device. If in doubt, consult a structural engineer.
- The roof covering must be properly sealed in accordance with applicable guidelines.

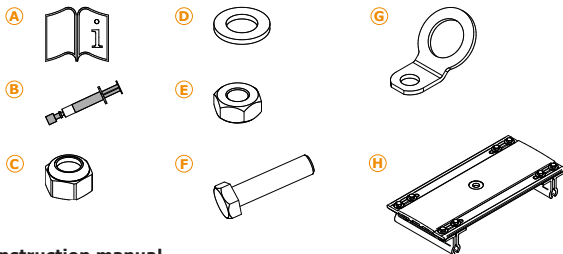


If uncertainties arise during installation, it is imperative that you contact the manufacturer.

3.3 FOR USERS: FOR SAFE USE

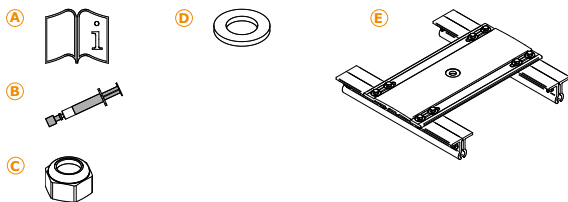
- The minimum free space necessary under the edge is calculated as follows: Deformation of the anchorage device in the event of strain + Manufacturer's specification of the personal protective equipment used including deflection of the cable + body height + 1 m safety margin.
- Correct use of the individual elements including "personal protective equipment" must be ensured, because otherwise the safe functioning of the restraint system is NOT guaranteed.
- Attachment to the restraint system always occurs through the attachment eye using a carabiner, and it must be used with personal protective equipment in accordance with EN 361 (safety harness) and EN 363 (fall arrest system).
- **ATTENTION!** For horizontal use, only lanyards may be used that are suited for this purpose and have been tested for the respective edges (sharp edges, trapezoidal corrugated sheeting, steel girders, concrete, etc.).
- Do NOT use restraint systems if wind speeds are higher than normal.
- Children and pregnant women must NOT use the restraint system.

4.1 INNOTECH "EAP-SYST-04" and "AIO-SYST-04-SZH"



- A) Instruction manual**
B) Lubricant: Weicon AntiSeize ASW 10000
C) Locknut M16: Stainless steel AISI 304
D) Lock washer M16: Stainless steel AISI 304
E) Hexagonal nut M16: Stainless steel AISI 304
F) Hexagonal bolt M16 x 45: Stainless steel AISI 304
G) Anchorage eye (optional): Stainless steel AISI 304
H) INNOTECH "SYST-04" Base plate with clamping bars: Aluminium

4.2 INNOTECH "AIO-SYST-04"



- A) Instruction manual**
B) Lubricant: Weicon AntiSeize ASW 10000
C) Locknut M16: Stainless steel AISI 304
D) Lock washer M16: Stainless steel AISI 304
E) INNOTECH "SYST-04" Base plate with clamping bars: Aluminium



DANGER TO LIFE through incorrect use.

- Use INNOTECH restraint systems **ONLY** for personal safety.
- **NEVER** hang loads on INNOTECH restraint systems which are **NOT** approved in this instruction manual.



Comply with the manufacturer information for the personal protective equipment used.

5.1

INNOTECH "EAP-SYST-04" and "AIO-SYST-04-SZH"

INNOTECH "EAP-SYST-04" and "AIO-SYST-04-SZH" have been

- developed as an **anchorage point** for personal safety on a flat or sloping roof, for **3 persons** (including 1 person for provision of first-aid) as per **EN 795:2012 TYPE A**, and
- as an **anchorage point** for personal safety **for intermediate brackets** (*not included in scope of delivery*) **in the INNOTECH horizontal lifeline system as per EN 795:2012 TYPE C**, and are suitable for the following fall protection systems as per EN 363:2008:
 - Restraint systems
 - Workplace positioning systems
 - Fall arrest systems
 - Rescue systems

5.2

INNOTECH "AIO-SYST-04"

INNOTECH "AIO-SYST-04" has been developed as an **anchorage point** for personal safety on a flat or sloping roof, and **for end and corner points as well as for intermediate brackets** (*not included in scope of delivery*) **in the INNOTECH horizontal lifeline system as per EN 795:2012 TYPE C**, and is suitable for the following fall protection systems as per EN 363:2008:

- Restraint systems
- Workplace positioning systems
- Fall arrest systems
- Rescue systems



Approved as **anchorage point** on a flat or sloping roof **for INNOTECH "ABP-10-30"**. When labelled appropriately, also suitable for abseiling:

- Rope access systems (EN 363:2008)

5.3 INNOTECH "EAP-SYST-04"

INNOTECH "EAP-SYST-04" has been tested and certified for installation on a roof as per **EN 795:2012 TYPE A**.

The notified authority participating in the type test:

DEKRA EXAM GmbH, Dinnendahlstr. 9, 44809 Bochum, Germany

In Germany, both a general type approval ("allgemeine bauaufsichtliche Zulassung" or "abZ") for products used in the field of construction according to state regulations and a mark of compliance ("Ü-symbol") are required.

5.4 INNOTECH "AIO-SYST-04-SZH" and "AIO-SYST-04"

INNOTECH "AIO-SYST-04-SZH" and "AIO-SYST-01-410-610" have been tested and certified for installation on a roof as per **EN 795:2012 TYPE C**.

The notified authority participating in the type test:

DEKRA EXAM GmbH, Dinnendahlstr. 9, 44809 Bochum, Germany

In Germany, both a general type approval ("allgemeine bauaufsichtliche Zulassung" or "abZ") for products used in the field of construction according to state regulations and a mark of compliance ("Ü-symbol") are required.

6.1 CHECK BEFORE EVERY USE

Prior to each use, INNOTECH restraint systems must be inspected visually for any obvious defects.



DANGER TO LIFE through damage to the INNOTECH restraint system.

- INNOTECH restraint systems must be in perfect working condition.
- INNOTECH restraint systems must be free of dirt and grease.
- Do NOT continue to use the INNOTECH restraint system if
 - Damage or wear to its components are obvious,
 - Other defects were observed (loose screwed connections, deformation, corrosion, wear, etc.),
 - Strain has occurred due to a fall (Exception: provision of first aid),
 - The product identification is illegible.

6

INSPECTION

Check the entire restraint system's suitability for use on the basis of the acceptance protocol and test log.



If there are any doubts concerning the safe usage of the restraint system, it must NOT be used any more, and must be checked by an expert (written documentation). If necessary, replace the product.

6.2 INSPECT EVERY YEAR

Have INNOTECH "SYST-04" checked at least once a year by a specially trained technician who is familiar with the restraint system. The user's safety depends on the effectiveness and durability of the equipment.

Shorter intervals between inspections may be required, depending on the intensity of use and the environment (e.g. in corrosive atmospheres, etc.).

Document the inspection by the specialist in the test log in the instruction manual, and keep it with the instruction manual.



Use the test intervals indicated in the test protocol.

7

WARRANTY

The warranty period for manufacturing defects on all components (under normal conditions of use) is 2 years from the date of purchase. The time limit is shortened if it is used in corrosive atmospheres.

If there is strain (a fall, weight of snow, etc.,) the warranty claim is void for those components that have been designed to absorb energy, or that may possibly be deformed.



For system installation, and for components planned and installed by specialised installation companies under their own responsibility, INNOTECH assumes neither responsibility nor warranty in the case of improper use.

8.1 INNOTECH "EAP-SYST-04"

A) Name or logo of the manufacturer/retailer:

INNOTECH

B) Type designation:

EAP-SYST-04

C) Symbol indicating that the instruction manual must be complied with:



D) Maximum number of people who can be secured:

3 (including 1 person for provision of first-aid)

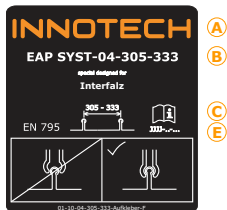
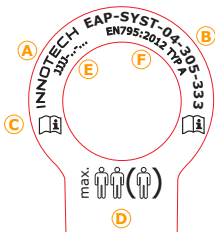
E) Year of manufacture and manufacturer's serial number:

JJJJ-...-...

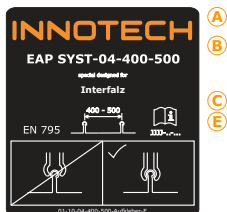
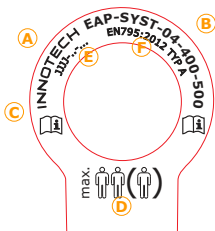
F) Number of the applicable standard:

EN 795:2012 TYPE A

EAP-SYST-04-305-333



EAP-SYST-04-400-500



8.2 INNOTECH "AIO-SYST-04-SZH" and "AIO-SYST-04"

A) Name or logo of the manufacturer/retailer:

INNOTECH

B) Type designation:

AIO-SYST-04-SZH

AIO-SYST-04

C) Symbol indicating that the instruction manual must be complied with:



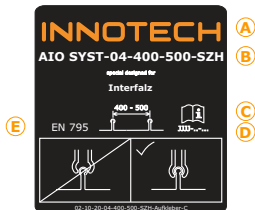
D) Year of manufacture and manufacturer's serial number:

JJJJ-.-...

E) Number of the applicable standard:

EN 795:2012 TYPE C

AIO-SYST-SZH

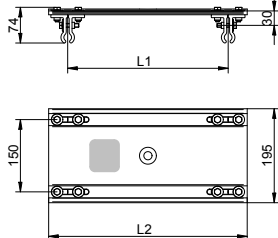
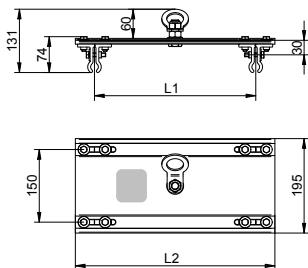


AIO-SYST



9.1 INNOTECH "EAP-SYST-04" and "AIO-SYST-04-SZH"

[mm]



SYST-04-305-333

L1 = 305 - 333

L2 = 412

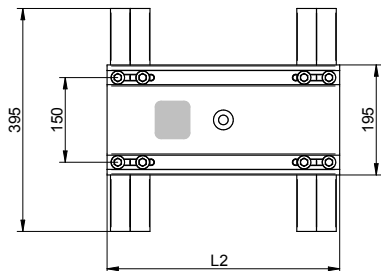
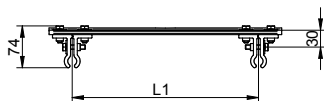
SYST-04-400-500

L1 = 400 - 500

L2 = 595

9.2 INNOTECH "AIO-SYST-04"

[mm]



SYST-04-305-333

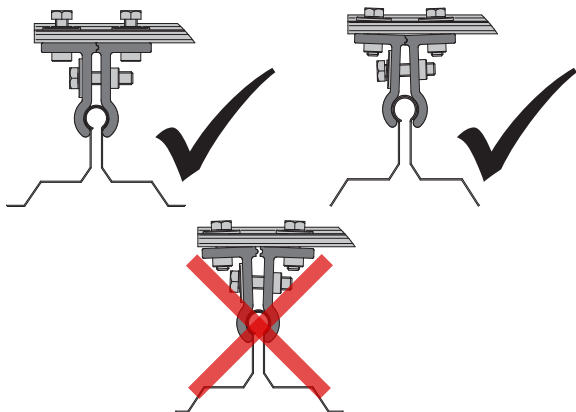
L1 = 305 - 333

L2 = 412

SYST-04-400-500

L1 = 400 - 500

L2 = 595



Basic prerequisites are a standing seam roof installed as per the applicable standards/ specialist regulations (sheet thickness: **steel ≥ 0.5 mm; aluminium ≥ 0.7 mm**), a statically bearing substructure, and the use of original fasteners that are suitable for the roof profile. When using coated sheet metal, ensure that the coating is not damaged in the installation process.

SYST is not suitable for copper roofs, and must not come into contact with copper-containing run-off. (Alternative: INNOTECH FALZ)



DANGER

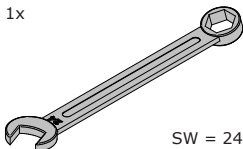
DANGER TO LIFE as a result of installation on an unsuitable substructure.

- Ensure that the substructure is statically load-bearing. In case of doubt, have the installation substructure checked by a structural engineer or by the manufacturer.

[mm]

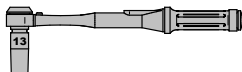


1x



SW = 24

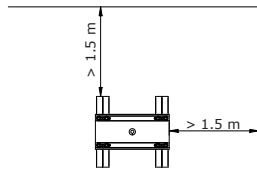
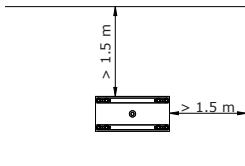
1x



SW = 13

**DANGER****DANGER TO LIFE if NOT correctly installed.**

- Install INNOTECH safety system correctly, as per instruction manual.
- Maintain a min. edge distance of 1500 mm to the end of the roof sheeting (Figure).

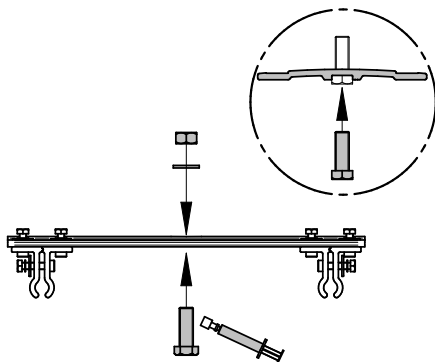
**CAUTION****INJURIES from sharp edges on components.**

- Wear protective gloves for the installation work.

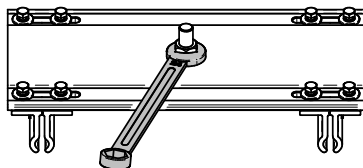
13 INSTALLATION

13.1 INNOTECH "EAP-SYST-04" and "AIO-SYST-04-SZH"

1.

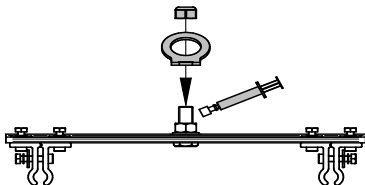


2.

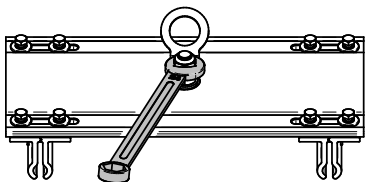


13 INSTALLATION

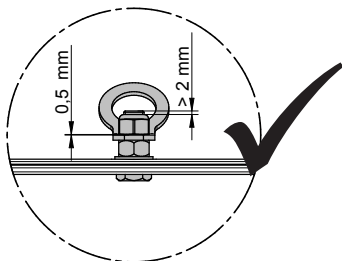
3.



4.



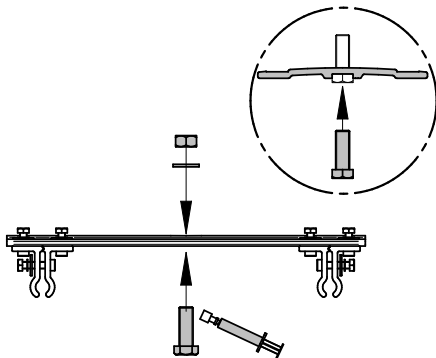
5.



13 INSTALLATION

13.2 INNOTECH "AIO-SYST-04"

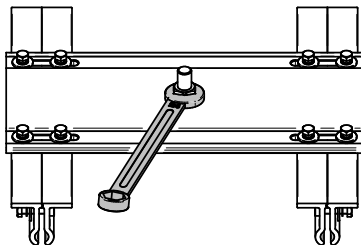
1.



2.

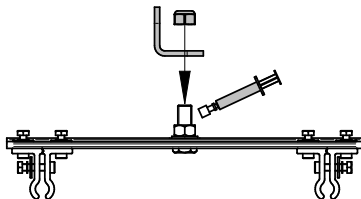


SW = 24

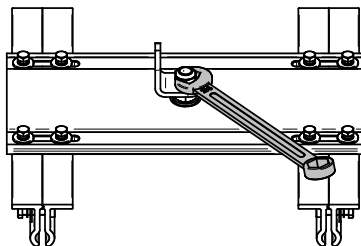


13 INSTALLATION

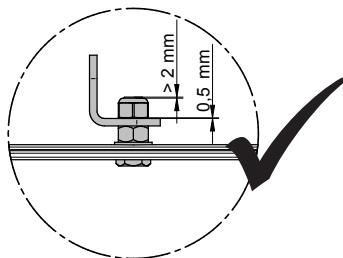
3.



4.



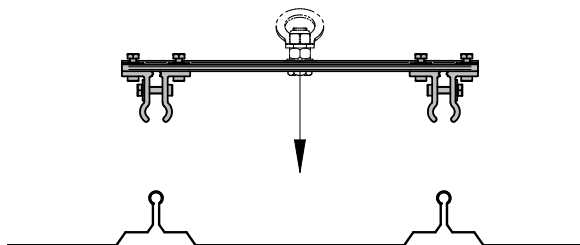
5.



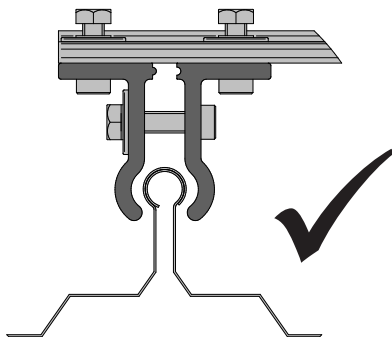
13 INSTALLATION

13.3 POSITIONING ON THE ROOF

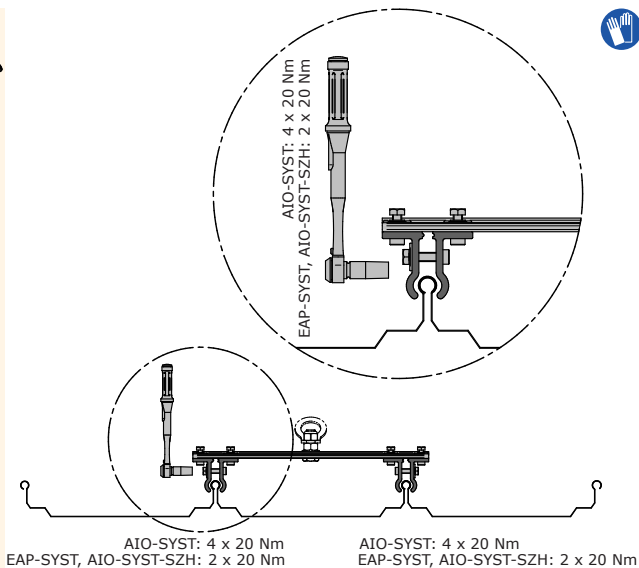
1.



2.



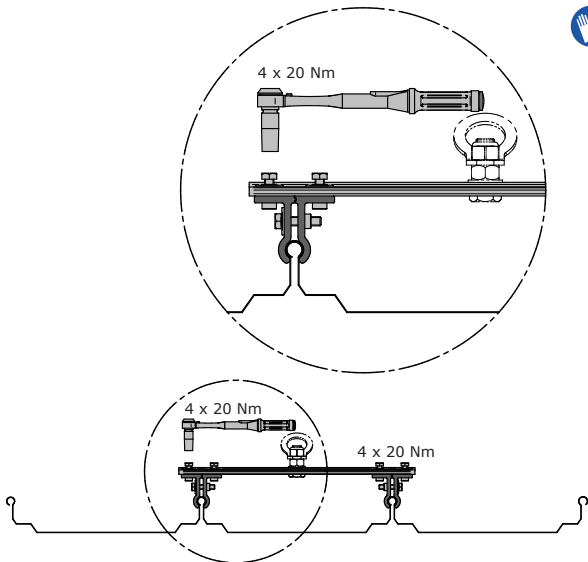
3.



Comply with torque value.

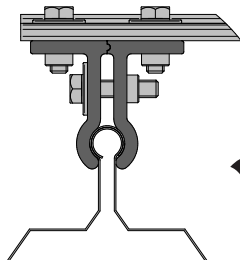
13 INSTALLATION

4.



Comply with torque value.

5.



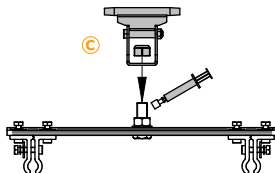
DONE!

14.1 INNOTECH "EAP-SYST-04" and "AIO-SYST-04-SZH"

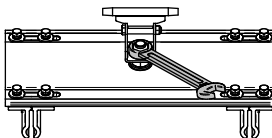
INNOTECH "SYST-04" as intermediate brackets in the INNOTECH horizontal lifeline system as per EN 795:2012 TYPE C.
Not included in scope of delivery



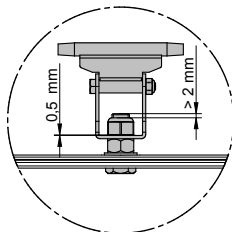
①



②



③



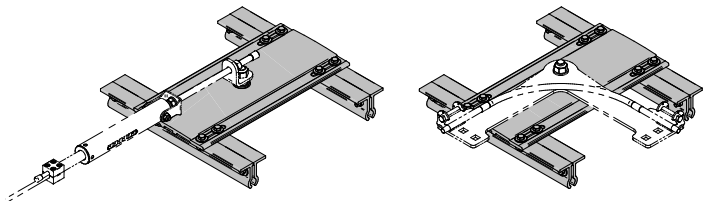
The separation between intermediate brackets must NOT exceed 7.5 m.



14

SAMPLE APPLICATIONS

14.2 INNOTECH "AIO-SYST-04"



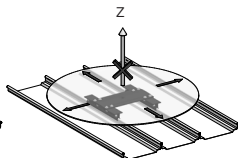
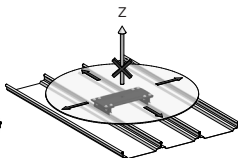
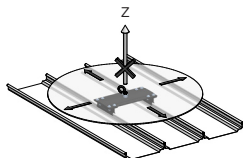
15

LOAD DIRECTIONS

EAP-SYST

AIO-SYST-SZH

AIO-SYST



DANGER TO LIFE when used in **UNAPPROVED** load directions.

- Use INNOTECH restraint systems only in the approved load directions.
- Work loads/application loads in the "Z-axis" are NOT permitted.

16

WASTE DISPOSAL

Do NOT dispose of the restraint system with domestic waste.
As per national requirements, gather together the used parts, and dispose of them environmentally correctly.

ACCEPTANCE LOG NO. _____ (PART 1/2)

S Y S T - 0 4

ORDER NUMBER: _____

PROJECT: _____

CLIENT:

Specialist:

Company address: _____

CONTRACTOR:

Specialist:

Company address: _____

INSTALLATION: (☒ please tick as appropriate)☐ **EAP** (Single anchorage points)☐ **ANCHORAGE POINTS** of a horizontal lifeline system as per EN 795:2012 TYPE CSpecialist:

Company address: _____

OPTIONAL: when setting up a horizontal lifeline system in accordance with
EN 795:2012 TYPE C

Installation of the anchorage points by: _____

Installation of the lifeline system by: _____

ACCEPTANCE LOG NO. _____ (PART 2/2)

S Y S T - 0 4

FASTENER/PHOTO DOCUMENTATION

PRODUCT: Item _____ Year of construction/Serial number: _____
(Type designation EAP/anchorage point)

Installation substructure: _____
(e.g. for sheet metal roofs: roof manufacturer, profile, material, sheet metal thickness, etc.)

Date:	Location:	Tightening torque: [Nm]	Photos: (storage location)

The installation company who signs warrants correct workmanship (edge spacing, inspection of the substructure, proper cleaning of bores, compliance with curing times and processing temperature, compliance with the dowel manufacturer's guidelines, etc.). The client accepts the work performed by the contractor. The instruction manual, documentation of the fastenings, and photo documentation and test logs have been transferred to the client (building owner) and are to be made available to the user. When accessing the restraint system, the building owner must document the positions of the attachment devices by means of diagrams (e.g. top view of the roof).

The expert fitter familiar with the restraint system confirms that the installation work has been executed properly, as per the state of the art, and in accordance with the manufacturer's instruction manual. The technical safety reliability is confirmed by the installation company.

Handover of: (e.g: personal protective equipment (PPE), fall arrest devices (HSG), storage cabinet, etc.)

☐ Item _____ ☐ Item _____ ☐ Item _____ ☐ Item _____

Included in lightning protection system? ☐ YES ☐ NO

Comments: _____

Name: _____

Client

Inspection: Contractor (expert who is familiar with the restraint system)

Date, company stamp, signature

Date, company stamp, signature

INFORMATION ON THE EXISTING RESTRAINT SYSTEM

The building owner must affix this notice in a conspicuous location at the access point to the system.

This system must be used in accordance with the state of the art and the instruction manual.

The storage location for the instruction manual, test logs, etc. is:

- Overview plan showing the position of the anchorage device:

Draw in the areas where there is a break-through hazard (e.g. light domes and/or roof lights).

The maximum limit values of the anchorage devices are to be found in the applicable instruction manual and on the rating plate of the restraint system.

If there is strain caused by fall, or if in doubt, the anchorage device must be taken out of service immediately and sent to the manufacturer, or to a specialised workshop for inspection and repair.
This applies if there is damage to the anchorage equipment.

TEST LOG NO. _____ (PART 1/2)

S Y S T - 0 4

ORDER NUMBER: _____


PROJECT: _____

PRODUCT: Item _____ Year of construction/Serial number: _____

(Type designation EAP/anchorage point)

ANNUAL SYSTEM INSPECTION EXECUTED ON: _____

LATEST DATE FOR ANNUAL SYSTEM INSPECTION: _____

CLIENT: _____ Specialist: _____ 

Company address: _____

CONTRACTOR: _____ Specialist: _____ 

Company address: _____

INSPECTION POINTS:

☒ checked and in order!

DEFECTS DETECTED:

(Description of defects/measures)

DOCUMENTATION:

☐ Instruction manual☐ Acceptance logs/clamp log/photo documentationPPE (personal protective equipment against falls from a height):
Inspection as per manufacturer's specifications☐ Expiration date☐ Annual inspection performed☐ Not checked (no authorisation)

ROOF SEALING:

☐ No damage☐ No corrosion☐

TEST LOG NO. _____ (PART 2/2)

S Y S T - 0 4

INSPECTION POINTS:

☒ checked and in order!

DEFECTS DETECTED:

(Description of defects/measures)

VISIBLE PARTS OF THE ANCHORAGE DEVICE:

☐ No deformation☐ No corrosion☐ Firmly seated☐ Threaded joints secured☐ Tightening torque of the fastening bolts☐ Mobility of the assembly parts (EAP, SZH, EDLE,...)

HORIZONTAL LIFELINE SYSTEM:

Attention:

For horizontal-lifeline systems, the test log in the ALLinONE-TYPE instruction manual (for copy template, see instruction manual) must be completed.

Acceptance result: The restraint system corresponds to the manufacturer's instruction manual, and to the state of the art. Technical safety reliability is confirmed.

Comments: _____

Name: _____

Client

Inspection: Contractor (expert who is familiar with the restraint system)

Date, company stamp, signature

Date, company stamp, signature

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