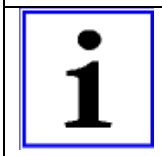
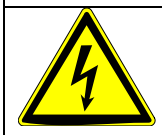
Systemcontainer

Table of contents

1 General Instructions

1.1 1.3. Legend, Explanation of symbols

The following safety symbols are used in these operating instructions. Above all, these symbols are intended to draw the attention of the reader to the adjacent safety instructions.

	This symbol indicates that there are hazards to the life and health of persons.
	The symbol indicates that there are hazards for the machine, material or environment.
	This symbol identifies information provided to improve understanding of the product and correct handling of the product.
	This symbol warns of dangerous electrical voltage within the working area (e.g. electrical distributors, terminal boxes, etc.)
	This symbol warns of hazards caused by explosive atmospheres.
	This symbol indicates suspended loads and their concomitant dangers.
	This symbol indicates a possible risk of crushing
	This symbol indicates a possible risk of crushing body parts (especially hands) by moving machine parts or machine parts that are closing.
 **SEPARATE INSTRUCTIONS**	This point refers to additional operating instructions or regulations (enclosed or delivered separately) required for operation or maintenance of accessories; these must be read and carefully observed. (safety instructions referring to these must always be observed).

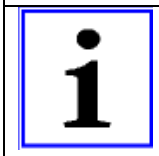
1.2 Basic safety instructions

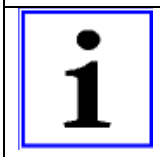
Keep this user manual in a safe place. It has been designed for practical use and should be available to the user on site.

This user manual applies to the **Systemcontainer**. It contains all the information needed regarding correct startup, trouble-free operation, maintenance, removal from service and disposal.
The instructions in this user manual must be carefully followed and adhered to.
Any person who is involved in the installation, use, servicing or repair of the product is required to have familiarized him/herself with the contents of the user manual and to have been trained and instructed in its handling.
These instructions for use do not absolve the operator from the duty to issue special operating instructions in accordance to the German GefStoffV and BetrSichV (hazardous substances regulation and the regulation for industrial health and safety). The user manual us based on the safety data sheet and a risk assessment. The prohibition regarding the storing together of certain substances must be adhered to.
No changes, extensions or modifications may be made to the product without the manufacturer's written authorisation.

National regulations and safety regulations have to be adhered to.

2 Safety instructions

	The storage system may only be operated by skilled and instructed personnel. Potential hazards have to be identified.
	Unauthorized people are not allowed to enter the storage system.
	The storage system may only be used for its intended purpose.
	Handling of hazardous substances is only allowed while wearing the specified protective equipment.
	If the storage system is damaged, it has to be repaired immediately by an approved company while observing the required safety measures. In case of any damage the storage system must be put out of service.
	There is the risk of bruises when using the door.
	Only store materials for which the storage is designed.
	The trading units for the materials must comply with the provisions for the Transportation of Dangerous Goods.

	The trading units may only be opened for filling and emptying. They are only allowed to be dispensed above the sump.
	The following regulations and instructions, latest issues, have to be observed: - BGV A1 and BGR 234 - The information leaflet “Rules of operation and conduct for the storage of water-hazardous liquids" (put it up at a clearly visible position!) - Construction supervision approval (if available)
	Fire, naked flames or smoking are not allowed.
	The system has to be checked regularly. For this purpose, refer to the Control and Maintenance Plan

3 Intended use

The **Systemcontainer** is a storage system used to store hazardous substances and flammable liquids of the classes R10, R11 and R12 in accordance with the ordinance on hazardous substances (later than 01 December 2010, these classes will be called H 224, H 225 and H 226 acc. to GHS).

The specified total volumes of the storage system must not be exceeded. The load capacity of the storage system in the data sheet/on the type plate must also be observed. Make sure that the substances are only stored on the grids. During storage, the total permissible storage volumes as well as the maximum permissible storage volume of the largest storage unit must be met and observed, depending on the provided sump capacity.
Additionally, before use and after any change of the type of the stored media, it will be necessary to prove that the material of the sump is resistant to the medium to be stored.

This proof can be provided:
- by DIN 6601 or
- by the BAM list
- as a proof of experience

Drums may only be placed into the storage system or removed from it, or lifted down, using suitable equipment (e.g. drum grippers).

Substances are only permitted to be stored together when the risk assessment indicates that there are no hazards caused by possible reactions or physical influences. Otherwise, the substances must be stored separately. The substances must be stored in a way that all trade units and the sump can be viewed.

Packagings and trading units must comply with the provisions for the transportation of dangerous goods.

4 Product description

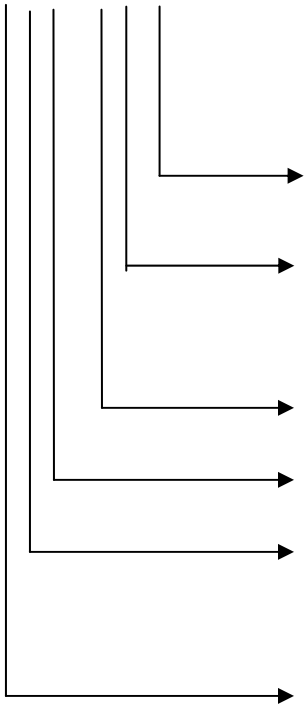
4.1 Design

The **System Containers** are designed as follows:

- Frame structure made of rolled box sections according to structural analysis.
- Side walls and roof made of galvanized steel sheets
- Rear panels made of galvanized trapezoidal sheet sections
- Sump made of steel (material S235 JR, material number: 1.0038 according to DIN EN 10025-2) and tested using a leak test according to DIN EN-571-1
- Optional sump insert made of stainless steel or plastics (PE HD)
- Optionally, the front can be equipped with wing door, sliding door or roller shutter.
- The earth connection of the basic body is ensured.
- The surface of the steel parts is galvanized or one-colour painted on a 2K-PUR basis.
- Foot plates are mounted to fix it to the bottom.

Model codes

3 G 3 14. O ST (Example)



Locking element
- TE = Wing door
- ST = Sliding door
- RT = Roller shutter

Lining
- O = with roof
- I = without roof

Container depth in m x 10 (without locking element)

Container width in m (rounded off to a whole number)

Type of storage
- A = Horizontal storage of drums
- G = Vertical storage of drums
- K = Storage of CTCs (IBCs)
- P = Storage of trading units and pallets

Number of storage levels

4.2 Technical Data

System Container, G model for vertical storage of drums, outdoors

Model	Shelf width (mm)	Shelf depth (mm)	Shelf height (mm)	Sump capacity (l)	Net load (kg)	Shelf load (kg)	Net weight (kg)
1G 314	3000	1310	1 x 2640	750	4200	4200	1050
2G 314			2 x 1250		8400		1260
3G 314			3 x 1250		12600		1800
1G 614	2 x 3000		1 x 2640	1500	8400		1900
2G 614			2 x 1250		16800		2370
3G 614			3 x 1250		25200		3470
1G 326	3000	2 x 1270	1 x 2640	1400	7800	3900	1750
2G 326			2 x 1250		15600		2220
3G 326			3 x 1250		22800		2800
1G 626	2 x 3000		1 x 2640	2850	15600		3400
2G 626			2 x 1250		31200		4175
3G 626			3 x 1250		46800		6150

System Container, P model for the storage of pallets, outdoors

Model	Shelf width (mm)	Shelf depth (mm)	Shelf height (mm)	Sump capacity (l)	Net load (kg)	Shelf load (kg)	Net weight (kg)
2P 414	3900	1310	2 x 1250	1100	10920	5460	1580
3P 414			3 x 1250		16380		2210
2P 814	2 x 3900		2 x 1250	2100	21840		2880
3P 814			3 x 1250		32760		4100
1P 1214	3 x 3900		2640	3200	16380		4400
2P 1214			2 x 1250		32760		5000

System Container, K model for the storage of CTCs/IBCs, outdoors

Model	Shelf width (mm)	Shelf depth (mm)	Shelf height (mm)	Sump capacity (l)	Net load (kg)	Shelf load (kg)	Net weight (kg)
1K 214	2700	1310	1 x 2570	1000	4725	4725	1120
2K 214			2 x 1500		9450		1400
1K 414	3380		1 x 2570	1180	5915	5915	1130
2K 414			2 x 1500		11830		1600
1K 514	2 x 2700		1 x 2570	2000	9450	4725	1970
2K 514			2 x 1500		18900		2400

1K 714	2 x 3380		1 x 2570	2400	11830	5915	2110
2K 714			2 x 1500		23660		2950

System Container, A model for the horizontal storage of drums, outdoors

Model	**Shelf width (mm)**	**Shelf depth (mm)**	**Shelf height (mm)**	**Sump capacity (l)**	**Load capacity (kg/m²)**	**Shelf load (kg)**	**Net weight (kg)**
2A 314	3000	1340	2 x 1130	470	350 kg/drum platform		1150
3A 314			3 x 750				1250
2A 614	2 x 3000		2 x 1165	1000			2000
3A 614			3 x 750				2330

System Container, H model, for variable storage, outdoors

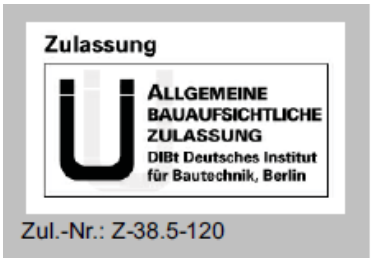
Model	**Shelf width (mm)**	**Shelf depth (mm)**	**Shelf height (mm)**	**Sump capacity (l)**	**Net load (kg)**	**Shelf load (kg)**	**Net weight (kg)**
2H 1214	3900	1310	1500	3200	38320	6385	5300

System Container, G-I model for the vertical storage of drums, indoors

Model	**Shelf width (mm)**	**Shelf depth (mm)**	**Shelf height (mm)**	**Sump capacity (l)**	**Net load (kg)**	**Shelf load (kg)**	**Net weight (kg)**
2G 314.I	3000	1310	1 x 1250	750	8400	4200	960
			1 x 500				
3G 314.I			2 x 1250		12600		1450
			1 x 500				
2G 614.I	2 x 3000		1 x 1250	1500	16800		2600
			1 x 500				
3G 614.I			2 x 1250		25200		2630
			1 x 500				

4.3 Approval

System Containers are admitted for use by the local construction authority and local water authority with No. Z-38.5.120.



There are proofs of stability available for the System Container which are the basis of the approval.

Load assumptions:	Wind load:	➡	0.5 kN/m^2 according to DIN 1055 (refer to tables: Dimensions and loads)
	Snow load:	➡	0.96 kN/m^2 according to DIN 1055

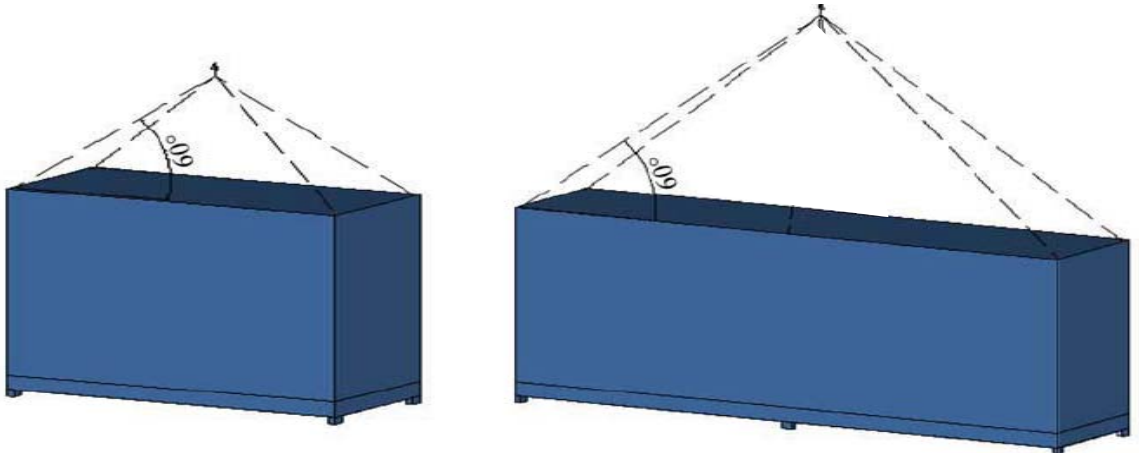
5 Transport

Before transport, make sure that the permissible total height and width are not exceeded.

5.1 Transport securing devices and handling by crane

⚠	Only empty System Containers are allowed to be transported!

Before starting transport activities, fasten the container on the specified lashing points.
To transport the System Containers with crane eyes, the lifting angle of the ropes may not exceed 60°. Refer to the image "Lashing of ropes/chains".



Container models: 214/314/ 414/ 326/ 426	Container models: 514/ 614/ 714/ 814/ 626/ 826

Image: Lashing of ropes/chains

5.2 Transport by fork-lift truck

System Containers may only be unloaded and transported with fork-lift trucks of sufficient load capacity. Make sure that the forks are long enough to avoid tipping over.

⚠	Consider the maximum load capacity of the fork lift!

6 Erection / Commissioning

6.1 Erection conditions

System Containers may only be placed on even and paved surfaces. The foundation provided by the customer must be able to discharge the indicated loads. The selection of concrete with regard to bearing capacity, fitness for use and durability compliant to DIN EN 206 must be determined by the planner in accordance to the local requirements (refer also in the foundation plan).

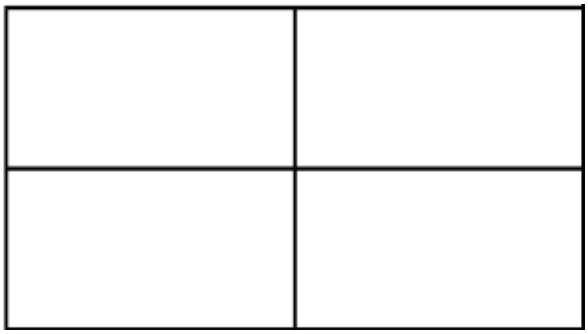
⚠	It may be required that an expert or a specialist firm has to prove the system before the commissioning.

6.2 Additional conditions for the storage of flammable substances outdoors.

For the erection of System Containers, the following installation instructions (refer to images 1 - 3) have to be observed and kept to ensure natural ventilation:

⚠	Safety distances to the adjacent buildings have to be kept and protecting strips must be established.
⚠	Flammable materials may only be stored passively in naturally ventilated System Containers.

Image 1

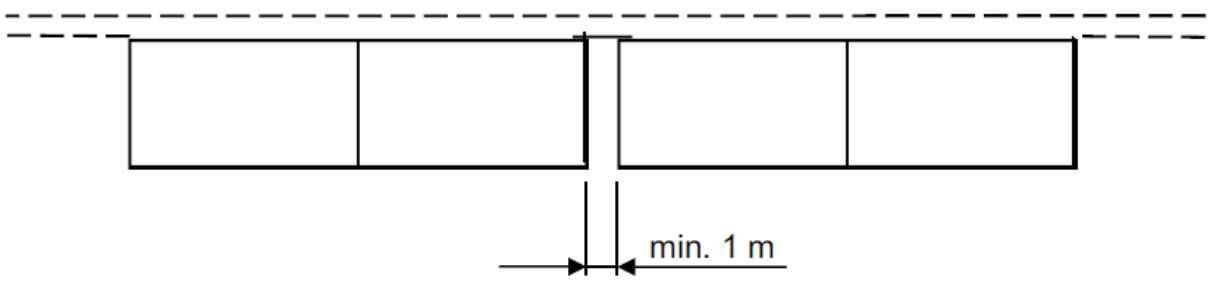


Formation of blocks with max. 4 containers;
2 pieces each, in 2 rows after another

Image 2

Containers in a row without
limitation of piece number!

Image 3

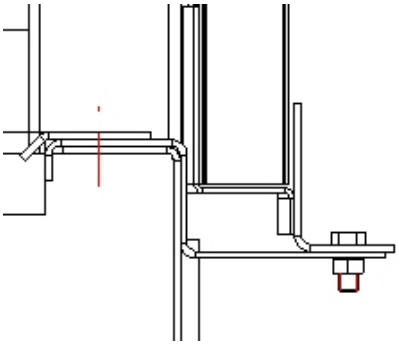


2 containers placed next to each other
in a row against a wall!

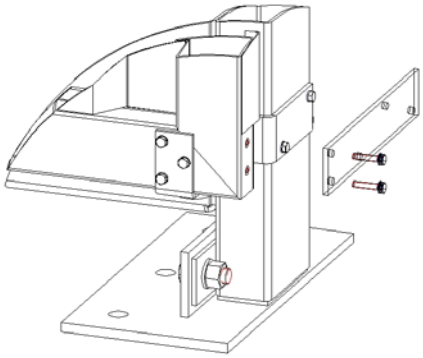
6.3 Alignment and anchoring in the ground

1. The container is set up at the desired place. To be able to reach the rear fixing points, a distance of 60 cm should be kept to other buildings and the other facilities.

2. Remove the transport securing devices of the doors. In case of wing doors, they are in the middle - at the bottom. In case of sliding doors, each sliding door element is secured outside, at the bottom, and additionally outside, at the top.



Wing door - Transport securing device



Sliding door - Transport securing device, at the bottom

3. The container has to be aligned horizontally and vertically using a spirit level. Also ensure that the doors are in alignment.

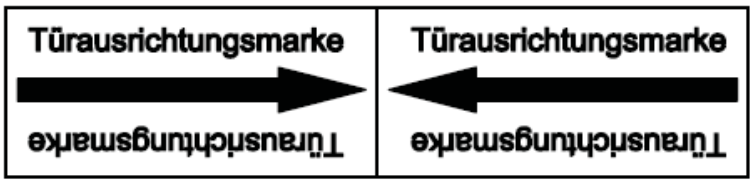


Image: Correct position of the door alignment marks

For the alignment use shims which are laid under the foot plates.

4. After the container has been aligned, the dowel boreholes are to be drilled. Please find the required boreholes in the images below.

Position and number of composite anchors, refer to Images 1 - 3:

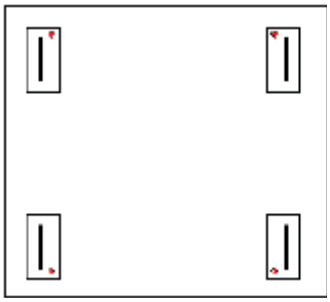


Image 1
Container models: 214/ 314/ 414/ 326/ 426-O and OTE
Number of composite anchors: 4

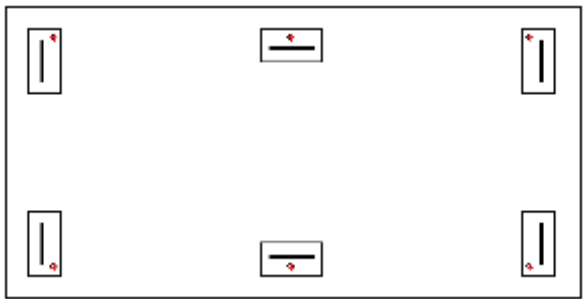


Image 2
Container models: 514/ 614/ 714/ 814/ 626/ 826-O, OTE and ORT
Number of composite anchors: 6

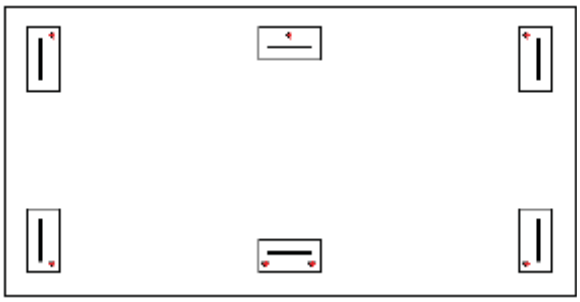


Image 3
Container models: 614/ 714/ 814/ 626/ 826-OST
Number of composite anchors: 7

5. Apply the dowels according to the manufacturer's instructions. Attach locking nut and washer and fasten the nut.

1	Down comer - container
2	Foot plate
3	Screw connection
4	Composite anchor M16
5	Fixing nut M16
6	Washer

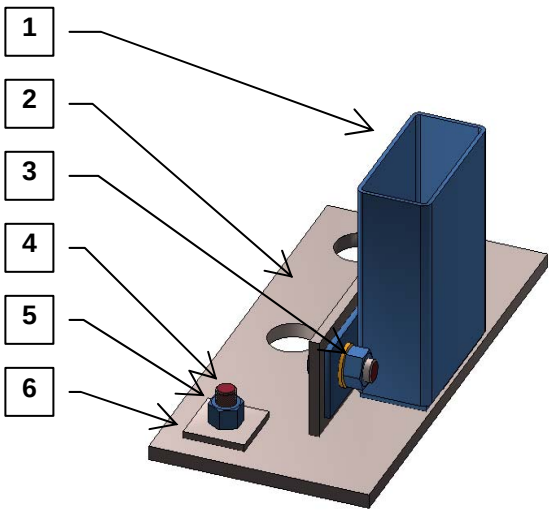
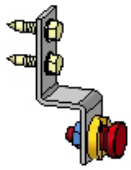
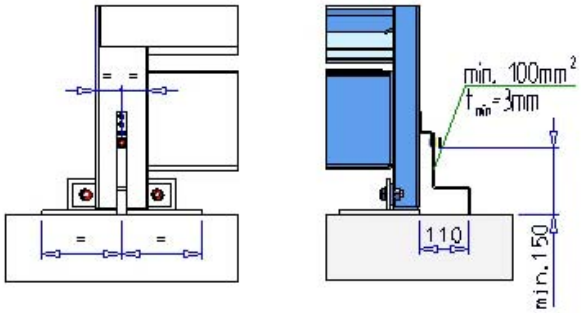
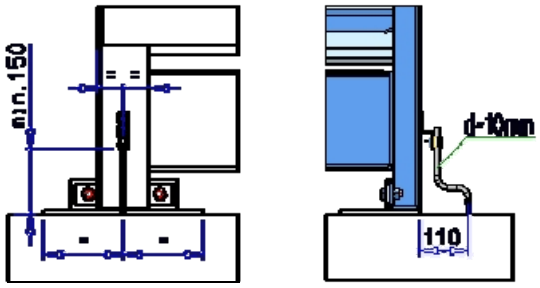


Image: Detail of floor anchor with foot plate

6.4 Earthing

For the storage of flammable substances, the System Containers have to be connected to earth (refer to image).
To do this, use the VbF accessory kit (item no.: 138099).
The earth connector at the customer's side is to be connected to the VbF accessory kit. You can also connect round or flat steel earth connections.

	
Detail: Installation of flat-steel earth-connection	
Detail: Installation of round-steel earth-connection	

7 Operation

- Open the doors for loading or unloading the stored goods. Secure the wing doors using the storm hooks.
- In case of sliding doors make sure that no objects are in the closing edge when closing the door.
- Use a suitable lifting gear (e.g. fork lift truck with drum grippers) to place the containers on the grid or to unload them.
- When storing metal containers place them carefully on the grid (speed 1 m/s) to prevent any possible sparks.

- During storage or removal, the trading units must be secured against tipping over. For transport, also secure the trading units against tipping over.
- When loading/unloading, pay attention to the shelf depth (refer to the Technical Data).
- Store the goods that way that the sump can always checked visually from one position.
- After the storage system has been used, close the doors immediately.
- Lock the doors to avoid unauthorized access.

- Observe the safety instructions.
- Remove inadmissible snow loads from the storage system.

8 Malfunctions

Error	Cause	Action
Liquid in the sump	Rainwater	Get the storage system sealed. Dispose the liquid from the sump without damaging the environment.
	Leaky container	Dispose the liquid from the sump without damaging the environment. Check the sump for damages.
Bent grid	Load too high	Replace the grid. Check the storage system for damages.
Doors are difficult to move	Hinges, rolling elements	Lubricate the components. If it does not become better, replace the components.

For questions or repairs contact our Denios specialists.

9 Maintenance and Repair

Switch the power supply off (if it exists) before starting maintenance and repair works and secure it against accidental switching on by taking appropriate measures.

- Please find hints for maintenance and repair in the **Control and Maintenance Plan** attached to these operating instructions.
- We recommend ordering a yearly maintenance service by the DENIOS AG.
- Before performing the maintenance or repair works, cut off the access to the storage system for unauthorized people! Post or place an information sign which informs about the maintenance and repair works!

- When exchanging parts use only original replacement parts from the manufacturer!

10 Putting out of operation

If the storage system is damaged it has to be put out of service and labelled accordingly.

11 Disposal

The container is comprised of various components and parts which must be disposed or or recycled in compliance to the local and legal regulations.

	Before the disposal, any hazardous residue must be thoroughly cleaned off from the container!

Disassemble or dismount the single components of the container and arrange the components into the following groups

- Steel
- Light metals
- Non-ferrous heavy metal
- Plastic
- Electronic components and cable
- Building materials/insulation material

Ensure that all of these components are disposed of correctly and professionally, and are thereby a part of the recovered substance cycle.

11.1 Approval

DIBt

Bescheid

über die Änderung und Ergänzung der allgemeinen bauaufsichtlichen Zulassung vom

18. Juli 2006

Deutsches Institut für Bautechnik
ANSTALT DES ÖFFENTLICHEN RECHTS

Zulassungsstelle für Bauprodukte und Bauarten
Bautechnisches Prüfamt
Mitglied der Europäischen Organisation für Technische Zulassungen EOTA und der Europäischen Union für das Agrément im Bauwesen UEAtc

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Datum: 6. Mai 2009

Geschäftszeichen: I 53-1.38.5-15/09

Zulassungsnummer: **Z-38.5-120**

Geltungsdauer bis: **31. Juli 2011**

Antragsteller:

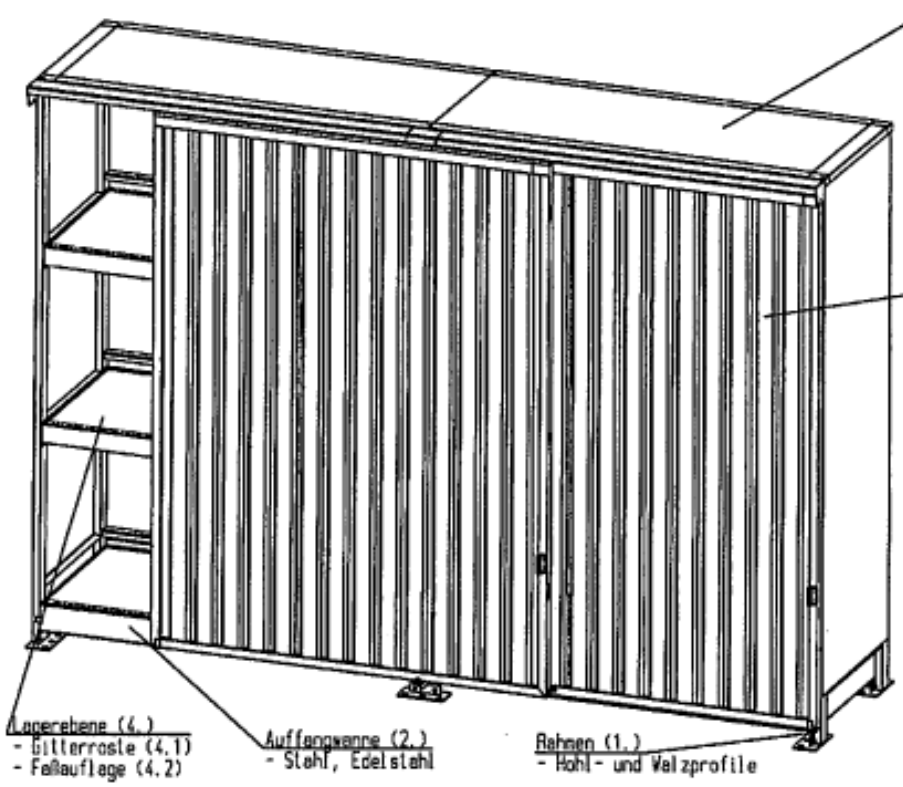
DENIOS AG
Dehmer Str. 58-64, 32549 Bad Oeynhausen

Zulassungsgegenstand:

Systemcontainer mit integrierten Auffangwannen aus Stahl

Dieser Bescheid ändert und ergänzt die allgemeine bauaufsichtliche Zulassung Nr. Z-38.5-120 vom 18. Juli 2006. Dieser Bescheid umfasst vier Seiten und eine Anlage mit zwei Seiten. Er gilt nur in Verbindung mit der oben genannten allgemeinen bauaufsichtlichen Zulassung und darf nur zusammen mit dieser verwendet werden.

Deutsches Institut für Bautechnik



Typenschlüssel

3 G 614. OST - 50 (Beispiel)

Auffangvolumen in % (entfällt bei 10%)			(2.)
Verschlußelement (5.):	ST	= Schiebetor	(5.1)
	TE	= Flügeltor	(5.2)
	P	= Schiebeplane	(5.3)
	RT	= Rolltor	(5.4)
Verkleidung (3.):	O	= mit Dach und Wänden	(3.1/3.2)
	I	= ohne Verkleidung	
Containertiefe in Meter (ohne Tore)(Maße gerundet)			
Containerbreite in Meter (Maße gerundet)			
Bevorzugte Lagerart:	A	= Faßlagerung liegend	(4.2)
	G	= Faßlagerung stehend	(4.1)
	K	= Lagerung von KTC u. IBC	(4.1)
	P	= Lagerung von Gebinden auf Palette	(4.1)
	H	= Kombination aus K und P	(4.1)
	M	= Maximalcontainer	(4.1)
Anzahl der Lagerebenen			

Auch isolierte Systemcontainer mit wärmegedämmter Verkleidung und Toren!

Deutsches Institut für Bautechnik

DENIOS. DENIOS AG Dehmer Straße 58-64 32549 Bad Oeynhausen Tel.: (0 57 31) 7 53-0 Fax: (0 57 31) 7 53-1 99 E-Mail: info@denios.de Internet: www.denios.de	Systemcontainer	Anlage 1 des Bescheids vom 6. Mai 2009 über die Änderung und Ergänzung der allgemeinen bauaufsichtlichen Zulassung Nr. Z-38.5-120 vom 18. Juli 2006

G.00028087.SZA

11.2 Certificate supervision contract

TÜV NORD Systems

Zertifikat

über den Abschluss eines Überwachungsvertrages
für Tätigkeiten als Fachbetrieb nach
Wasserhaushaltsgesetz (WHG)

Firma

DENIOS AG
Dehmer Str. 58-64
32549 Bad Oeynhausen

Tätigkeiten des Fachbetriebes gemäß WHG:

☒ Aufstellen ☒ Instandhalten/Instandsetzen
☒ von Anlagen zum Umgang mit wassergefährdenden Stoffen

Einschränkungen:

Gemäß Bescheinigung über die wiederkehrende Prüfung vom 11.10.2010.

Dieses Zertifikat ist gültig bis: 09.2011

TÜV NORD Systems GmbH & Co. KG
Bereich Mitte
Region Ostwestfalen-Lippe

Bielefeld, den 11.10.2010 -je

TÜV NORD TÜV NORD Systems

Der Sachverständige

Dipl.-Ing. Rademeister

11.3 Inspection report of specialist firm

TÜV NORD Systems
Wir machen die Welt sicherer

TÜV NORD Systems GmbH & Co. KG • Postfach 54 02 20 • 22502 Hamburg

TÜV®

DENIOS AG
Dehmer Str. 58-66

32549 Bad Oeynhausen

Bei Rückfragen bitte angeben:	
Equipment-Nummer:	2000385410
Auftrags-Nummer:	8105772013
Kunden-Nummer:	158729500
Aktennummer:	45-1

Für Sie vor Ort: TÜV NORD Systems GmbH & Co. KG
Region Bielefeld, Böttcherstr. 11
33609 Bielefeld, Tel.: 0521 786-0

Prüfung eines Fachbetriebes nach § 19 l Wasserhaushaltsgesetz und TRbF

☐ Erstmalig ☒ Wiederkehrend Überwachungsvertrag vom 02.1988; Stand 05.1993

Betriebseinheit: (falls abweichend) Rechnungsempfänger: (falls abweichend)

Tätigkeiten des Fachbetriebes gemäß § 19 l WHG

☐ Einbauen ☒ Aufstellen ☒ Instandhalten/Instandsetzen ☐ Reinigen
☐ von Heizölverbraucheranlagen ☒ von Anlagen zum Umgang mit wassergefährdenden Stoffen
☐ von

Einschränkungen:
- Gilt nur für Lagersysteme wie Lagercontainer, Raumauskleidungen, Auffangvorrichtungen aus metallischen Werkstoffen gemäß Bauregelliste Teil A, lfd. Nr. 15.22, und Auffangvorrichtungen gemäß Eignungsfeststellung sowie Auffangwannen aus Kunststoff mit allgemein bauaufsichtlicher Zulassung.
- Keine Beschichtungen von Auffangwannen und -vorrichtungen.
- Tätigkeiten b), c) und d) der Anlagenart 1.2 gelten auch für Altölsammelbehälter mit allgemein bauaufsichtlicher Bauartzulassung.

Gemäß TRbF 20, Nr. 15.4:
- Aufstellen, Instandhalten und Instandsetzen von Lagersystemen wie Lagercontainer, Raumauskleidungen und Auffangvorrichtungen aus metallischen Werkstoffen gemäß Bauregelliste Teil A, lfd. Nr. 15.22 oder Eignungsfeststellung und Altölsammelbehälter mit Bauartzulassung.

Geprüfte betrieblich verantwortliche Personen:

Herr Ralf Gaus
Herr Andreas Schulz
Herr Thomas Laubenstein
Frau Höhner
Herr Frodermann
Herr Saßmannshausen

Feststellungen:

☒ 1. Die oben genannten betrieblich Verantwortliche(n) sind noch in der Firma tätig.
☒ 2. Gravierende Mängel über die fachlichen Leistungen sind nicht bekannt.
☒ 3. Werkzeuge, Maschinen und Geräte entsprechen den Anforderungen für die o. g. Tätigkeiten.
☒ 4. Geeignete persönliche Schutzausrüstung ist verfügbar.
☐ 5. Die erforderlichen Transportbehälter entsprechen den Anforderungen.
☐ 6. Die Lagerung von Rückständen an der Betriebsstätte entspricht den Anforderungen.
☒ 7. Regelmäßig durchgeführte Sicherheitsbelehrungen wurden nachgewiesen.
☒ 8. Gewässerschaden / Umwelthaftpflichtversicherung wurde nicht nachgewiesen.
☒ 9. Verantwortlichkeiten und Weisungsbefugnisse sind geregelt.

TÜV NORD

Bemerkung:
Firma DENIOS trägt dafür Sorge, dass für die Ausführung von Betonarbeiten für Abfüllplätze und Ableitflächen ausschließlich qualifizierte Fachbetriebe beauftragt werden.

Prüfergebnis: ☒ Ohne Beanstandung ☐ Mängel

1. Der Abschluss einer Gewässerschaden-/Umwelthaftpflichtversicherung konnte nicht nachgewiesen werden. Auf § 22 WHG wird hingewiesen.

Hinweise:
☒ Die Fortdauer des Überwachungsvertrages wird bestätigt. ☒ Vorlage der Nachweise erforderlich.
☐ Nachprüfung vor Ort erforderlich. ☐ Mängelbeseitigung bis erbeten.

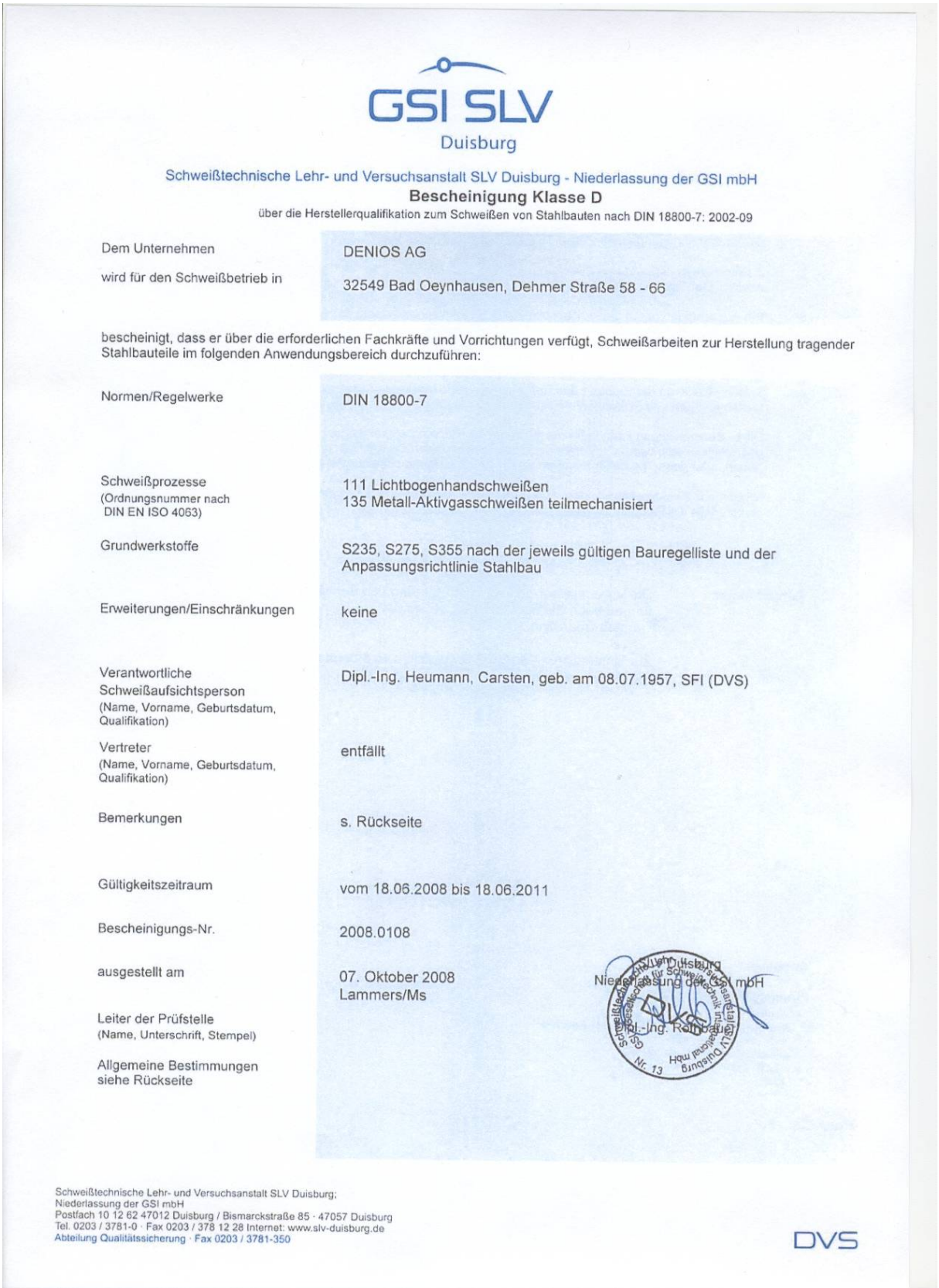
Nächste Prüfung: Sept. 2010

Bad Oeynhausen, den 08.10.2009
-je

TÜV NORD TÜV NORD Systems

Der Sachverständige
Dipl.-Ing. Rodemeister

11.4 Certificate SLV



GSI SLV
Duisburg

Schweißtechnische Lehr- und Versuchsanstalt SLV Duisburg - Niederlassung der GSI mbH

Bescheinigung Klasse D

über die Herstellerqualifikation zum Schweißen von Stahlbauten nach DIN 18800-7: 2002-09

Dem Unternehmen	DENIOS AG
wird für den Schweißbetrieb in	32549 Bad Oeynhausen, Dehmer Straße 58 - 66

bescheinigt, dass er über die erforderlichen Fachkräfte und Vorrichtungen verfügt, Schweißarbeiten zur Herstellung tragender Stahlbauteile im folgenden Anwendungsbereich durchzuführen:

Normen/Regelwerke	DIN 18800-7
Schweißprozesse (Ordnungsnummer nach DIN EN ISO 4063)	111 Lichtbogenhandschweißen 135 Metall-Aktivgasschweißen teilmechanisiert
Grundwerkstoffe	S235, S275, S355 nach der jeweils gültigen Bauregelliste und der Anpassungsrichtlinie Stahlbau
Erweiterungen/Einschränkungen	keine
Verantwortliche Schweißaufsichtsperson (Name, Vorname, Geburtsdatum, Qualifikation)	Dipl.-Ing. Heumann, Carsten, geb. am 08.07.1957, SFI (DVS)
Vertreter (Name, Vorname, Geburtsdatum, Qualifikation)	entfällt
Bemerkungen	s. Rückseite
Gültigkeitszeitraum	vom 18.06.2008 bis 18.06.2011
Bescheinigungs-Nr.	2008.0108
ausgestellt am	07. Oktober 2008 Lammers/Ms
Leiter der Prüfstelle (Name, Unterschrift, Stempel)	Niederlassung der GSI mbH Dipl.-Ing. Reinbau
Allgemeine Bestimmungen siehe Rückseite	

Schweißtechnische Lehr- und Versuchsanstalt SLV Duisburg;
Niederlassung der GSI mbH
Postfach 10 12 62 47012 Duisburg / Bismarckstraße 85 · 47057 Duisburg
Tel. 0203 / 3781-0 · Fax 0203 / 378 12 28 Internet: www.slv-duisburg.de
Abteilung Qualitätssicherung · Fax 0203 / 3781-350

DVS

Allgemeine Bestimmungen

1. Diese Bescheinigung ist vor der Ausführung von Schweißarbeiten in beglaubigter Abschrift oder Ablichtung den für die Baugenehmigung zuständigen Behörden unaufgefordert vorzulegen.

2. Zu Werbungs- und anderen Zwecken darf diese Bescheinigung nur im Ganzen vervielfältigt oder veröffentlicht werden. Der Text von Werbeschriften darf nicht im Widerspruch zu dieser Bescheinigung stehen.

3. Ein Ausscheiden der in dieser Bescheinigung für die Wahrnehmung der Aufgaben der Schweißaufsicht genannten Person(en) sowie Änderungen der Schweißverfahren oder wesentlicher Teile der für die Schweißarbeiten notwendigen betrieblichen Einrichtungen sind der anerkannten Prüfstelle rechtzeitig anzuzeigen. Die anerkannte Prüfstelle kann erforderlichenfalls eine erneute Prüfung im Schweißbetrieb veranlassen.

4. Treten Zweifel an der Eignung des Betriebes auf, sind jederzeit unangemeldete kostenpflichtige Betriebsbesichtigungen und Prüfungen im Betrieb durch die anerkannte Prüftelle vorbehalten.

5. Diese Bescheinigung kann jederzeit mit sofortiger Wirkung entschädigungslos zurückgenommen, ergänzt oder geändert werden, wenn die Voraussetzungen, unter denen sie erteilt worden ist, sich geändert haben, oder wenn die Bestimmungen dieser Bescheinigung nicht eingehalten werden.

6. Mindestens zwei Monate vor dem Ablauf der Geltungsdauer ist bei der anerkannten Prüfstelle erneut ein Antrag zu stellen, falls die Eignung weiterhin bescheinigt werden soll.

Bemerkungen: Die Voraussetzungen zur Durchführung von Schweißer- und Bedienerprüfungen nach Element 1310 liegen vor für
Carsten Heumann

Zur Unterstützung der Schweißaufsicht wird benannt:
Kiel, Uwe, geb. am 26.02.1961, SFM (DVS)

Verteiler:

1. Antragsteller
   (Original)
2. Oberste Bauaufsichtsbehörde des Landes
   (sofern gewünscht)
3. Zuständige EBA-Außenstelle
   (nur bei Ril 804)
4. z.d.A.

Control- and maintenance-plan *

DENIOS

Object	Activity	Instruction / Basis	First-examinator	with demand	2 x weekly	mounthly	quater annually	half annual	annual	all 2 years	all 3 years
Camp-system >1000l Al bzw. 5000l All/B	Examination before putting into service	BSV, TRbF 20, TRbF 600 ff	Expert	Expert							
Interception trough	Fist-examination of the manufacturer-production	Design examination	Expert								
Interception trough	views on dryness	LAWA	Manufacturers		Operators						
Interception trough	controls, records	WHG §19i								Operators	
Interception trough	cleans	WHG §19i		Operators							
Interception trough	Surfache-protection repairs	WHG §19i		Operators							
Interception trough	Damages repair	WHG §19i		Manufacturers							
Fence-rust	controls	WHG §19i		Operators					Operators		
Fence-east-fortification	controls	BSV		Operators					Operators		
Fence-rust	exchanges	BSV		Operators							
Mounting shelf	Controls, especially hook-connection	BSV							Operators		
	and screws	BSV							Operators		
Mounting shelf	Surface-Protection repairs	BSV							Operators		
Wing-door	controls,especially poems,	BSV							Operators		
	hinges, palaces	BSV									
Wing-door-hinge	oils	BSV							Expert		
Wong-door clasp-installation	controls, especially close-funktion,	BSV	Manufacturers						Expert		
	close-follow										
Gate-determine installation	controls	BSV / Permission				Operators			Expert		
Technical ventilation	controls	BSV / BGR 104							Operators		
Technical ventilation-lock up appliance	controls	ccordance with operating instructions							Operators		
Fire-recognition	controls	DIN / VDE 0833 / VdS					E-Specialist				
CO2-Delete-installation	Examination, controls	VDE / VdS	Expert						Expert	Expert	
CO2-Delete-installation	Maintenance	DIN 57833 Teil 1 / VDE/VdS				Qualified employee					
Cold-installation	First-examination, record	BSV / BGR 500, Kap. 2.35	Expert								
Cold-installation	Heat-swappers clean, refrigerant-exit	BSV / BGR 500, Kap. 2.35		Operators							
Electric installation entire	First-examination	BGV A3 / BSV / VDE	E-Specialist								
Electric installation entire	Repetition-examination	BGV A3 / BSV / VDE									E-Specialist
Lightning-protection-installation	First-examination	VDE 0185 /BSV	E-Specialist								
Lightning-protection-installation	Repetition-examination	VDE 0185 /BSV									E-Specialist

* the stated maintenance and test intervals are respects. The necessaryintervals follow official editions, business-conditions, manufacturer-statements, norms abd rules, that are to be tested from the operator and to keep

DENIOS