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Technical facts

Features

Sizes - nominal length*	2000, 2450, 3000 mm	
Sizes - nominal width*	3300, 3500, 3600 mm	
Insulated cladding:		
Thickness of insulation:	Roof and wall panels with 40 mm insulation	
Surface treatment:	Hot dip galvanised Inside colour-coated Outside colour coated 25 µm	
Uninsulated cladding:		
Thickness of material:	0,63 mm profiled steel sheet	
Surface treatment:	Hot dip galvanised Inside protective coating 10 µm Outside colour-coating 25 µm	
Surface steel frame:	Hot dip galvanised	

* Other sizes are available on request

Performance

Design loads according to DIN 1055:

Max. wind load	0,65 kN/m ²	DIN 1055 - Teil 4
Max. snow load	3,0 kN/m ²	DIN 1055 - Teil 5

Design of the steel construction according to DIN 18800

*Observe the local building regulations

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1. Description

1.1 General

1.1.1 Application

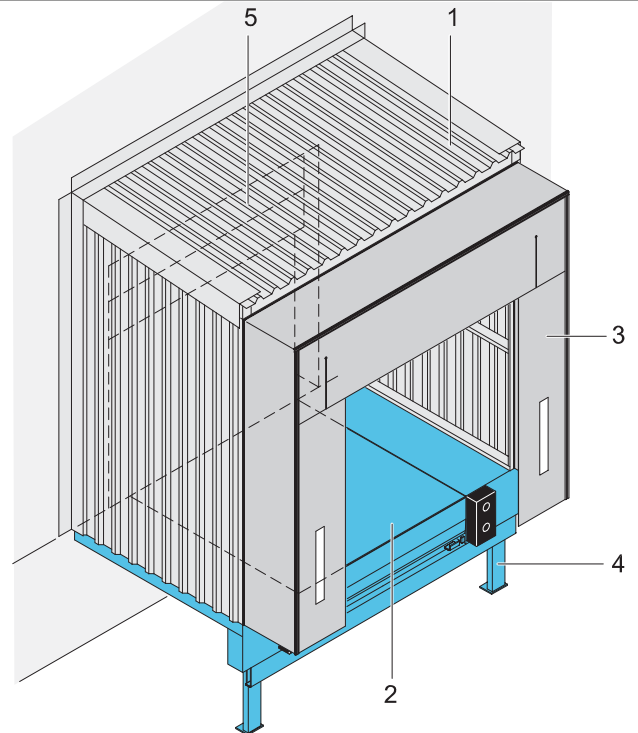
The Crawford 680 load house is a loading system that represents a complete and stand-alone unit that is installed in front of the building. It comprises all components of a docking system: an Autodock leveller, a dock shelter and an overhead sectional door. These components are presented in their individual product datasheets. This product datasheet describes the steel cladding; the load house in which all components are integrated.

Since it is installed outside the building directly in front of the door opening it has great advantages over a conventional internal ramp for both new buildings as well as for existing buildings that are to be upgraded without any major modifications to the construction of the building. As a standard the entire steel frame construction of the Crawford 680 load house is hot dip galvanised. Recommended options are a roof drainage system and flashing, adapted to your building.

1.1.2 Advantages

- Thermal separation of warehouse and docking system guarantees considerable energy saving, important for temperature controlled and freezer warehouses.
- Easy and fast installation of pre-assembled components on existing foundations which can be fastened on the outside wall of the building, without disrupting the daily use of the building.
- The cladding consists either of non-insulated profile sheet material or of 40 mm insulation panels; it can also be cladded with the material of the warehouse facade.
- The Crawford 680 load house design allows the use of an Autodock swinglip or telescopic lip leveller and the installation of a mechanical or inflatable dock shelter, whatever best suits the loading frequency.
- Because of individual components it can be installed as a single house or a multiple system either at a normal 90° or at a 45° or 145° angle if the room in front of the loading system is limited.
- The storage room in the warehouse is extended since the complete docking system is placed outside the building.
- Even shorter tax depreciation periods are possible. Please ask your tax lawyer.

1.1.3 Overview



- 1 Steel cladding
- 2 Autodock leveller
- 3 Dock shelter
- 4 Autodock support structure
- 5 Overhead sectional door

1.1.4 Standard

Nominal length:	2000, 2450, 3000 mm
Nominal width:	3300, 3500, 3600 mm
Angular adjustment:	90°

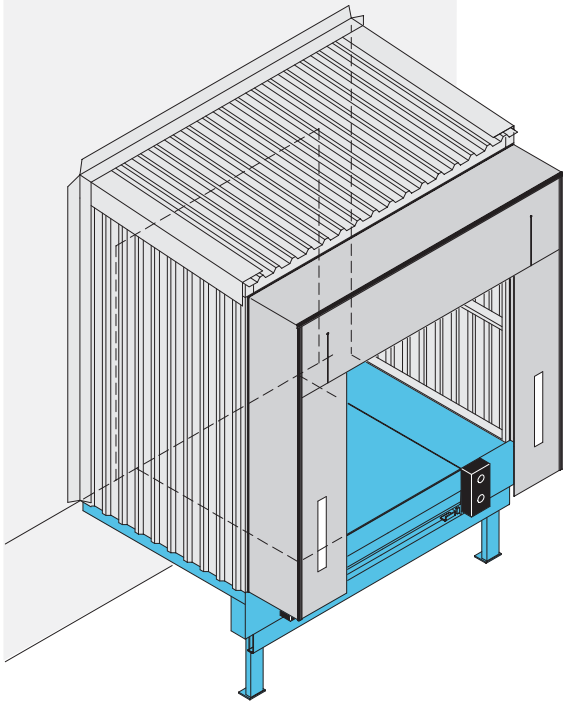
1.1.5 Options

Models:	HM - house mechanical HI - house inflatable
Cladding types:	I - insulated U - uninsulated X - steel frame
Angular adjustments:	45° or 135°
Roof:	Drain pipe and gutter Anti-drip-coating
Wall:	Wall connection profile Wall protection plywood veneer

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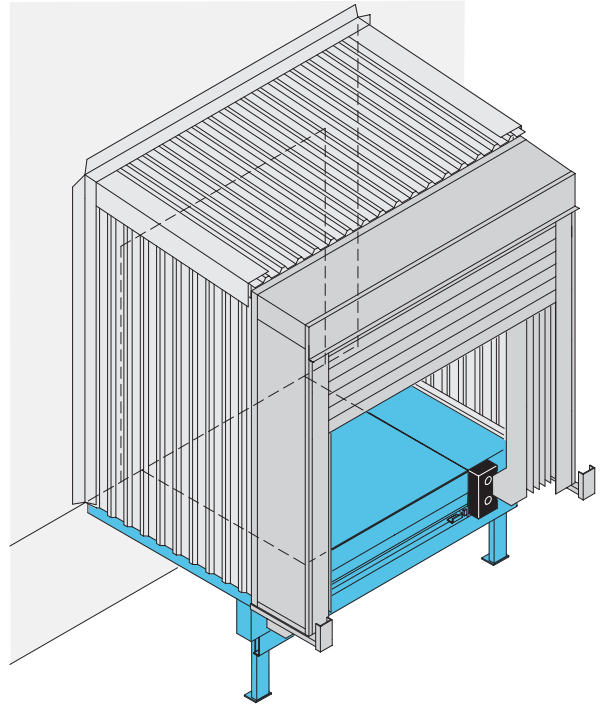
1.1.6 Model HM - House mechanical

The model HM is designed for an Autodock leveller with a mechanical dock shelter type SME or SMP. This load house model is the most economical solution for external dock installations.



1.1.7 Model HI - House inflatable

The model HI is designed for an Autodock leveller with an inflatable dock shelter type SIR or SIB. This load house model provides a high degree of sealing.



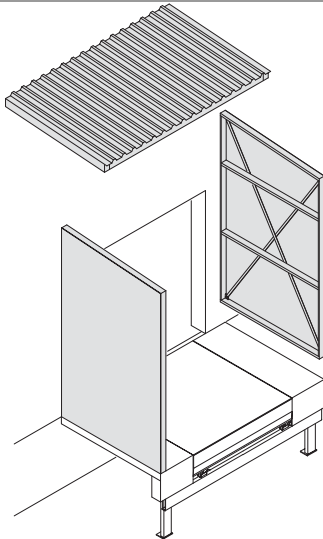
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1.2 Cladding types

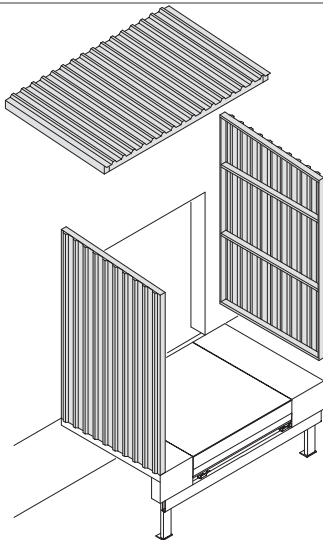
1.2.1 I - Insulated

For optimal insulation the I-insulated type is provided with 40 mm insulated cladding.



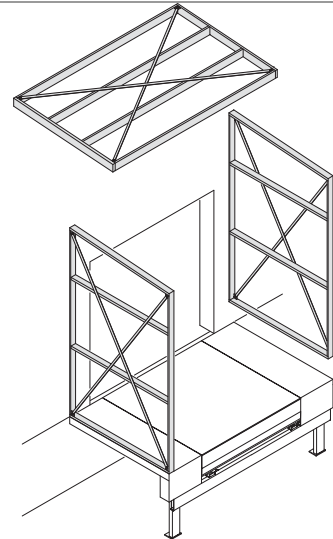
1.2.2 U - Uninsulated

The U-uninsulated type is provided with non-insulated profile sheet material cladding.



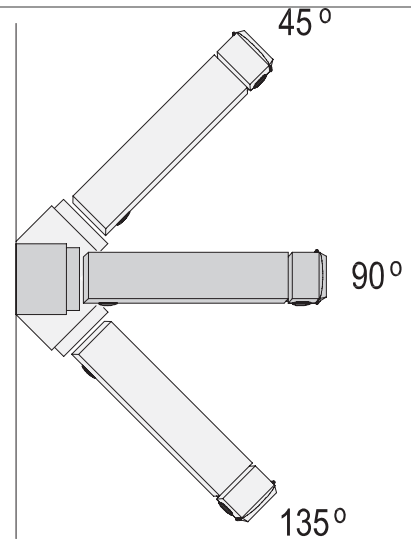
1.2.3 X - Steel frame

For applications where the existing building facade cladding is used, the X-steel frame type is provided with only a steel frame.



1.2.4 Angular adjustment

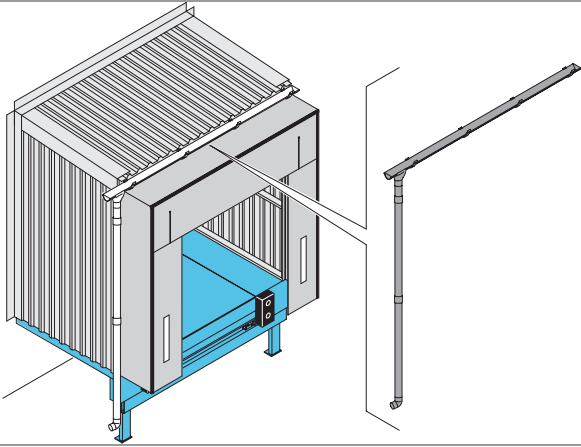
For applications where the yard space is limited, the load house can be installed with angular adjustments.



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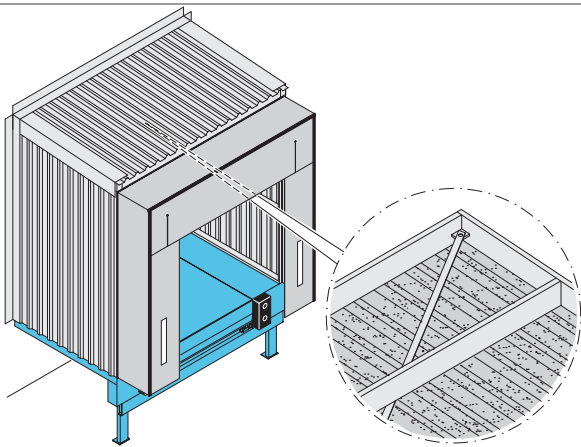
1.2.5 Drain pipe and gutter

To have controlled water drainage, the load house can be equipped with drain pipe and gutter.



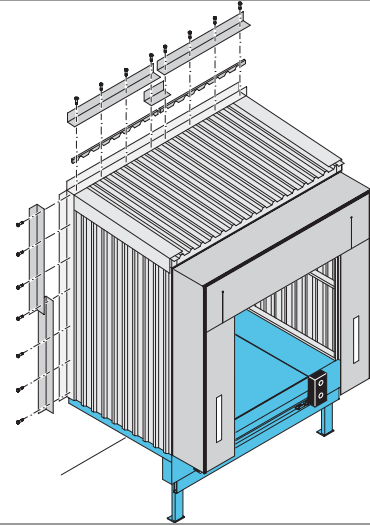
1.2.6 Anti-drip-coating (only for cladding type U - uninsulated)

To avoid condense water leading to moisture in the loading area, the inside surface of the roof sheet material can be delivered with a layer of felt as anti-drip-coating.



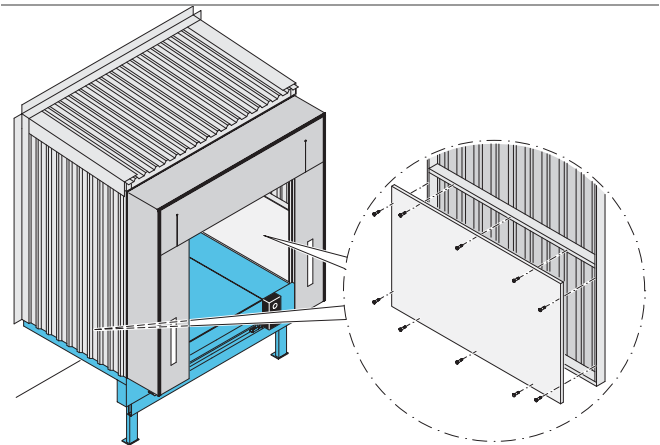
1.2.7 Wall connection profile

To connect the load house structure to the building, lateral and horizontal angle profiles including sealing material can be included in the installation.



1.2.8 Wall protection plywood veneer

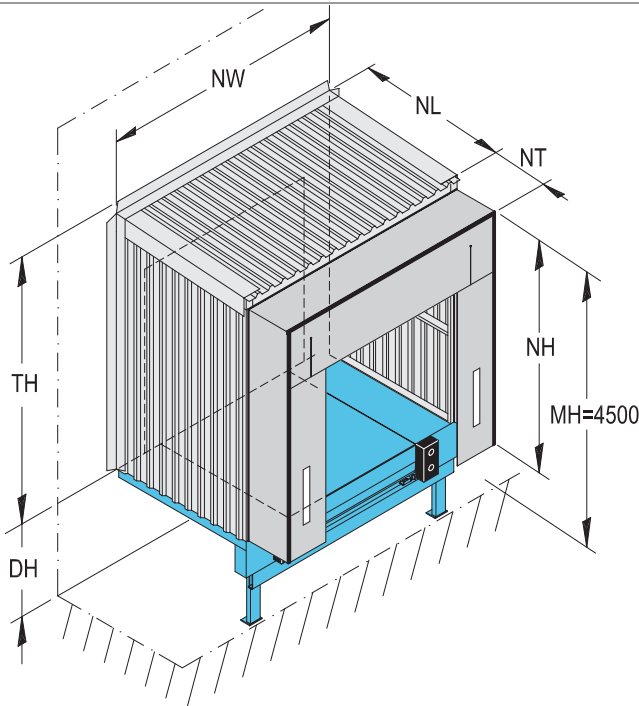
To protect the walls inside the load house against possible damages from the handling equipment, the lower part can be equipped with a cover of a plywood veneer (1200 mm high). This is also the recommended solution for applications where the inside walls needs to be closed and have a straight surface.



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2. Specifications

2.1 Dimensions HM



NW	Nominal width [3300, 3500, 3600 mm]
NL	Nominal length
TH	Total height
DH	Dock height
NH	Nominal height dock shelter
NT	Nominal width dock shelter
MH	Assembly height dock shelter Recommendation: MH=4500 for lorry-heights up to 4000 mm

NL	TH*	DH
2000	3975	950-1050
	3840	1100-1250
	3640	1300-1500
2450	4000	950-1050
	3865	1100-1250
	3665	1300-1500
3000	4025	950-1050
	3890	1100-1250
	3690	1300-1500

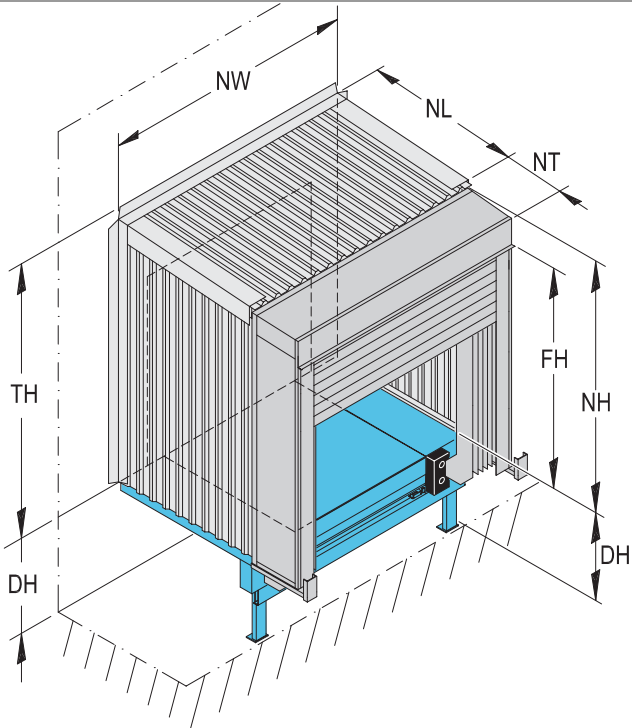
* Measurement only valid for insulated wall setup.

2.2 Shelter selection guide HM

Depending on the installation type (single or multi) and the width of the load house, the right selection of the type of mechanical shelter & nominal width is indicated in this table.

HM type	HM width	SMP NW 3200	SME/SMP NW 3250	SMP NW 3400	SME/SMP NW 3450	SMP NW 3500
Multi	3300	■				
Single	3300		■			
Multi	3500			■		
Single	3500				■	
Multi	3600					■
Single	3600					■

2.3 Dimensions HI



NW	Nominal width [3600 mm]
NL	Nominal length
TH	Total height
DH	Dock height
NH	Nominal height dock shelter
NT	Nominal width dock shelter
FH	Free height above finish floor level

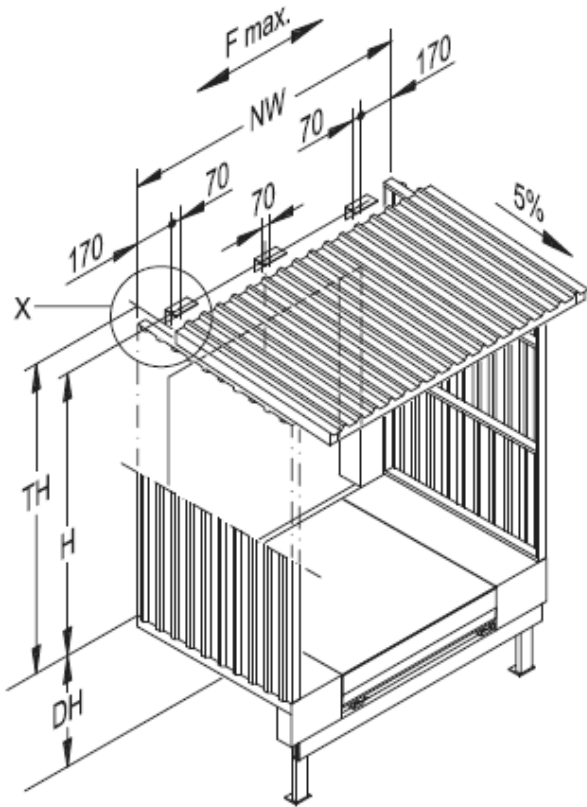
NL	TH*	NH	FH
2000	4175	3755	3320
	4475	4055	3620
	4775	4355	3920
2450	4200	3755	3320
	4500	4055	3620
	4800	4355	3920
3000	4225	3755	3320
	4525	4055	3620
	4825	4355	3920

* Measurement only valid for insulated wall setup.

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3. Building and space requirements

3.1 Wall fixings



3.1.1 Fixing heights

Insulated TH	Non-insulated TH	Fixing height H
3640 mm	3595 mm	= 3210 mm
3665 mm	3620 mm	= 3235 mm
3690 mm	3645 mm	= 3260 mm
3840 mm	3795 mm	= 3410 mm
3865 mm	3820 mm	= 3435 mm
3890 mm	3845 mm	= 3460 mm
3975 mm	3930 mm	= 3545 mm
4000 mm	3955 mm	= 3570 mm
4025 mm	3980 mm	= 3595 mm
4175 mm	4130 mm	= 3745 mm
4200 mm	4155 mm	= 3770 mm
4225 mm	4180 mm	= 3795 mm
4475 mm	4430 mm	= 4045 mm
4500 mm	4455 mm	= 4070 mm
4525 mm	4480 mm	= 4095 mm
4775 mm	4730 mm	= 4345 mm
4800 mm	4755 mm	= 4370 mm
4825 mm	4780 mm	= 4395 mm

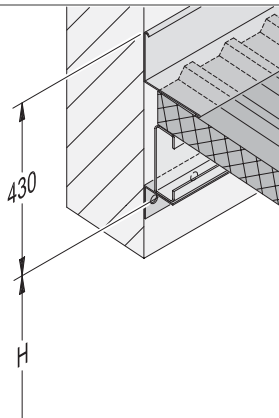
3.1.2 Maximum wall fixing force (kN)

NL	F max.
2000 mm	4,51 kN
2450 mm	4,51 kN
3000 mm	6,44 kN

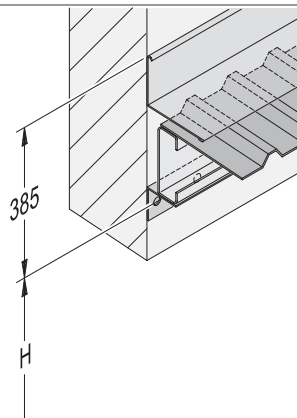
* F max. = Maximum wall fixing force (kN)

3.1.3 Wall fixing details (X)

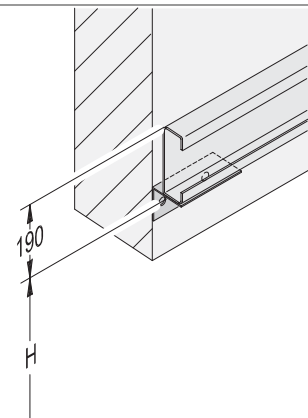
I - Insulated



U - Noninsulated



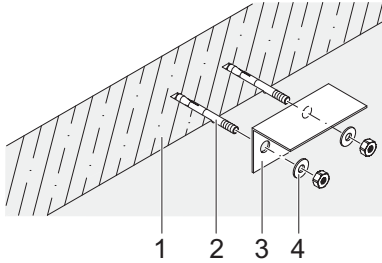
X - Steelframe



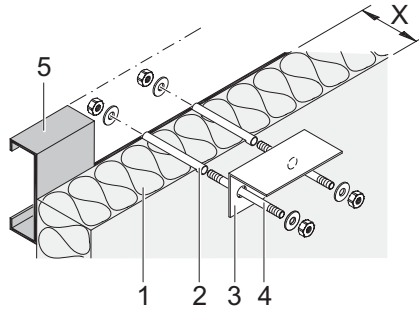
H fixing height (min. 100 mm above door height)

3.1.4 Wall fixings

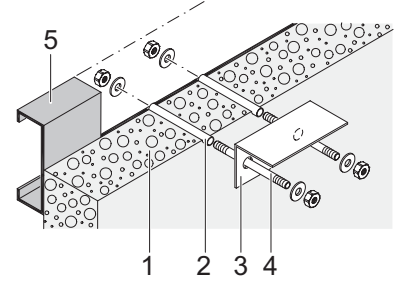
Concrete wall



Insulated wall



Light concrete wall



- 1 Concrete wall
- 2 Dowel
- 3 Support bracket
- 4 Washer

- 1 Insulated wall
- 2 Spacer tube
- 3 Support bracket
- 4 Threaded bolt with nut and washer
- 5 Mounting frame *
- X Wall thickness (x=100 or 120 mm)

- 1 Light concrete wall
- 2 Spacer tube
- 3 Support bracket
- 4 Threaded bolt with nut and washer
- 5 Mounting frame* (eg. c-profile 120x40x15x3 mm)

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4. Service



These keys open doors to better business

Regardless of their function, age or manufacturer, your industrial doors and dock loading systems have an important role in the flow of your business. That's why it makes sense to plan their maintenance long before the need for service occurs.

A Key Customer Service agreement from Crawford is your best assurance of safe and trouble-free door and dock operation. By becoming a key customer, you not only reduce the risk of breakdowns, but also guarantee compliance with local regulations and the new harmonised EU standards. You also ensure that your doors and dock loading systems retain their classifications for wind load, air permeability, water penetration and more.

Four types of Key Customer Service agreement – Green, Yellow, Blue and Red – allow us to tailor our service to your specific needs. Based on the role of your doors and dock loading systems, and the intensity with which you use them, you receive service that provides the perfect balance of economy, safety and security.

Best of all, the maintenance is performed by Crawford's renowned team of service technicians. As a qualified specialist in industrial doors and dock loading systems, we have the knowledge and skills to service any door or dock, regardless of its type, age or manufacturer. With Crawford as a single source for all your door and docking equipment brands, you can easily reduce costs while increasing equipment availability.

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Crawford is a leading international provider of door and logistics solutions. The carefully selected programme of doors and dock loading equipment, combined with profound application know-how and an unparalleled service offering, is the reason why more than a million customers have chosen Crawford as the preferred supplier for trouble-free operation around the clock.

