

# Harbinger Boarding Equipment

- Accommodation Ladders (ISO 5488)
- Gangways
- Accessories & spare parts

*A Longer Life*



**MME**  
MME GROUP

[www.mme-group.com](http://www.mme-group.com)

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# About MME Group

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MME Group is based in the Rotterdam area in the Netherlands. The company was established in 1963 and has since grown to become one of the most experienced and specialized companies in its field of activity. MME Group serves customers around the globe in industries such as machine building, oil & gas, offshore renewable energy (wind and tidal), shipping and shipbuilding.

MME Group activities:

- Cathodic Protection (SA, ICCP)
- MGPS (Impressed Current Anti-Fouling)
- Harbinger Boarding Equipment
- Non-destructive Testing
- Metallurgical Laboratory
- Marine Surveys
- Rope Access
- Playground & Recreational Safety
- NDT Training Courses

Contact us to find out how we can help you realise 'A Longer Life' for your assets or products.



144 Intracoastal Dr.  
Houma, LA 70363  
Toll Free: 866-218-0013  
Fax: 985-346-0244

[info@separatorequipment.com](mailto:info@separatorequipment.com)  
[www.separatorequipment.com](http://www.separatorequipment.com)

# Safe transfer of crew and passengers in any situation

Harbinger is the trade name for MME Group's marine aluminium Boarding Equipment. It comprises a wide range of high quality seawater resistant aluminium gangways, accommodation ladders and other types of access equipment. Besides the standard product range we also manufacture bespoke access equipment.

## Accommodation Ladders (ISO 5488)

Harbinger seawater resistant aluminium, fixed curved step accommodation ladders with extruded treads provide a safe walking surface. With inclination angles ranging from 0 to 55 degrees from horizontal, these ladders are suitable for the majority of vessel types. The ladders have solid, lightweight stringers of own design and are fitted with wire guides.



## Replacement Accommodation Ladders

When replacing an accommodation ladder, it is not always possible/desirable to purchase it from the original supplier. You want a fast and cost-effective solution to get your vessel sailing again. In that situation, Harbinger replacement accommodation ladders are your best choice.

Scan one of the codes below for a replacement form



For an accommodation ladder with top platform



For an accommodation ladder without top platform



# Safe transfer of crew and passengers in any situation



## Gangways

Do you need to bridge a one meter gap between the quay and a small vessel? Or do you want to safely connect two offshore platforms across 50+ meters? Harbinger Boarding Equipment is the right solution to create a walkway for safe transfer of crew and passengers across any gap. Our standard systems are suitable for the majority of situations. For unique challenges, we can either modify an existing design, or create a tailor-made solution.



## Accessories & Spares

We supply a full scope of accessories and spare parts for accommodation ladders and gangways:

- Safety nets
- Side nets
- Poly rope
- Lifting slings
- Quay rollers
- Stanchions
- Folding handrails
- Fixed handrails
- Turntable top platforms
- Self-stowing gear
- Winches
- Load tests & certification



# Why choose Harbinger boarding equipment?

---

All our access systems are made of marine grade lightweight aluminium. This has several important advantages:

- Lightweight systems (1/3 of the weight of comparable steel structures)
- Low crane capacity needed due to reduced weight
- Seawater resistant aluminium: no coating or galvanizing necessary
- Maintenance free because of a self healing oxide layer
- Manufactured in a DNV-GL recognised ISO 9001:2015 welding shop
- BSMA 78 / ISO 7061 and BSMA 89 / ISO 5488 compliant products
- Wide range of products
- Accessories and replacements are also available

# Our other products & systems

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**Cathodic Protection:** Corrosion is one of the largest threats to the long-term integrity and profitability of assets. MME Group has decades of accumulated knowledge and experience in applying sacrificial anodes and impressed current systems to protect marine structures against corrosion.



**ICAF (MGPS) Systems:** Marine fouling in seawater cooling systems is a threat to the performance of ships and installations. Removal of marine growth in a ship's seawater lines also leads to increased cost and delays during maintenance. To reduce this risk, MME Group developed the Marine Growth Prevention System (MGPS), also known as Impressed Current Anti Fouling (ICAF).

**Marine Surveys:** MME Group was one of the pioneers that introduced the use of ultrasonic technology for thickness measurements in the marine industry. Nowadays, our Marine Survey division provides a full range of inspection services that enable owners and operators to safeguard the integrity, compliance and profitability of their vessels for the entire lifecycle.



**Non-Destructive Testing:** Our efficient NDT services help you detect defects in base materials, products, installations and equipment. This provides asset management data which enables you to prevent damage and related cost resulting from material failure.

**Metallurgical Laboratory:** Creating reliable structures and products starts with the quality of the used base materials. Making sure that the used materials meet the applicable standards, therefore plays a vital role in all industries.



**Rope Access:** Safely carrying out work at height always poses a challenge. Conventional access solutions such as cherry pickers or scaffolding are not suitable for all situations. Oftentimes, Rope Access is a cost-efficient and safe alternative.

**NDT Training:** Supporting A Longer Life for materials, products and structures is only possible with skilled staff. Recognizing this importance, MME Group founded the first Non-Destructive Testing Training Centre in The Netherlands in 1969.



**Playground & Recreational Safety:** Playing is indispensable for the intellectual, social, motoric and emotional development of children. Children can only enjoy the beneficial effects of play if it can take place in a safe environment.

# ACCOMMODATION LADDERS



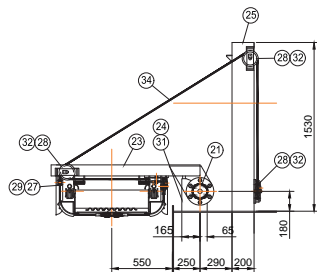


## Accommodation Ladders

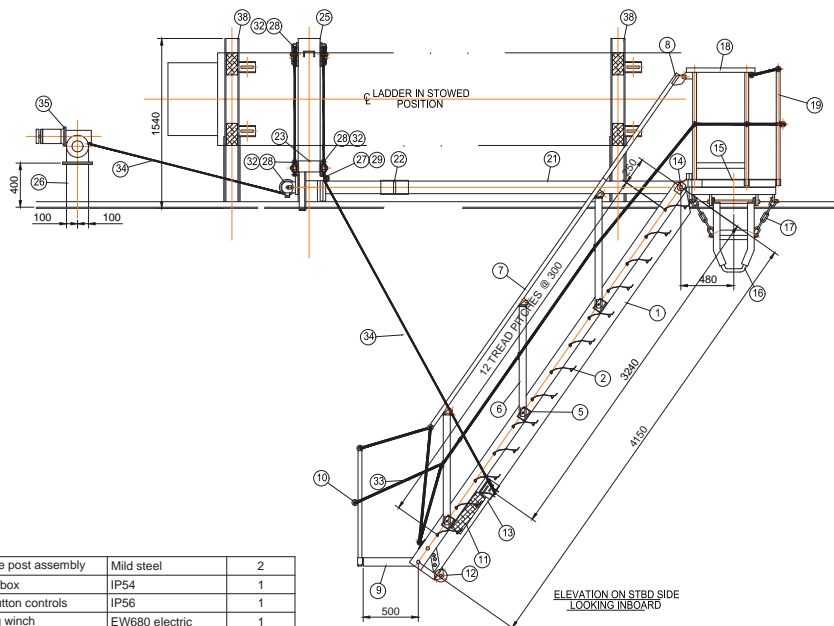
# Accommodation ladders

---

Harbinger seawater resistant aluminium, fixed curved step accommodation ladders with extruded treads provide a safe walking surface. With inclination angles ranging from 0 to 55 degrees from horizontal, these ladders are suitable for the majority of vessel types. The ladders have solid, lightweight stringers of own design and are fitted with wire guides.



SECTION I.W.O. DAVIT ARM  
LOOKING AFT



ELEVATION ON STRD SIDE  
LOOKING INBOARD

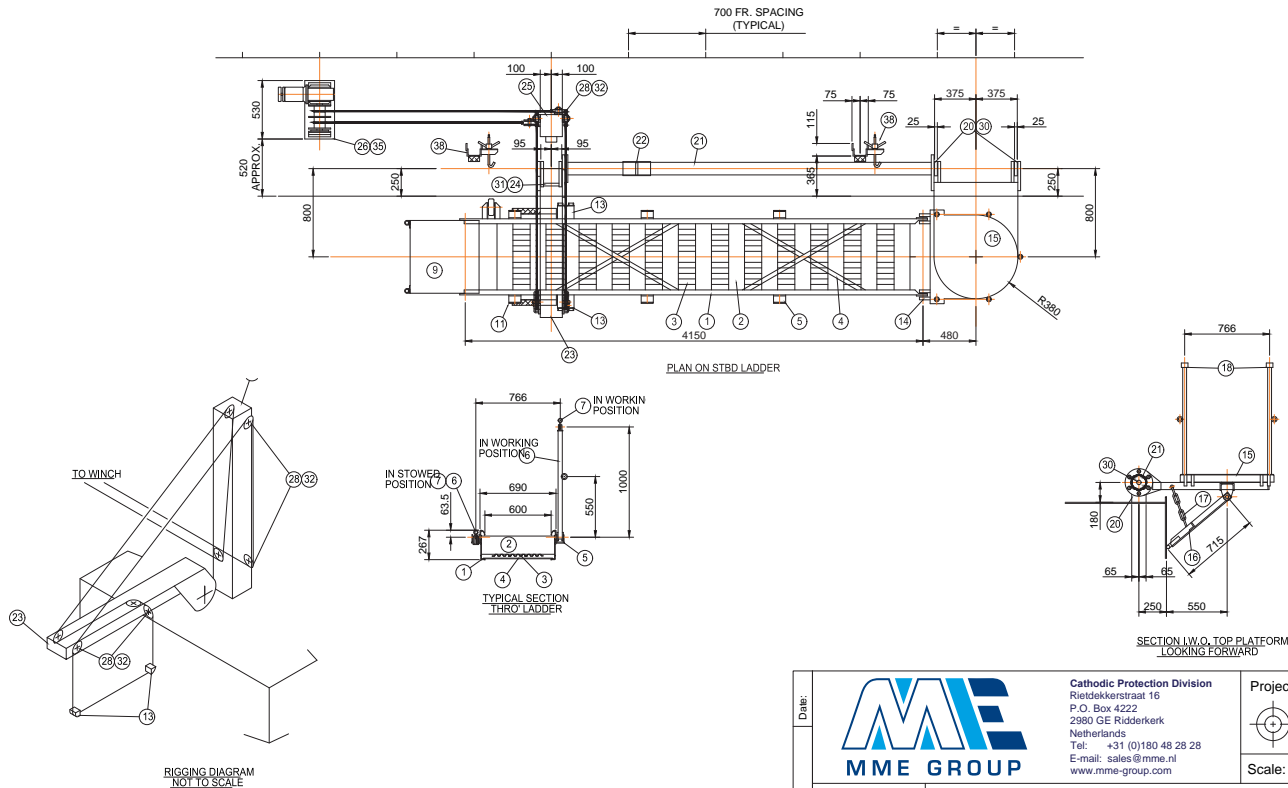
Note:

\* Indicates item (not shown on drawing),  
supplied with equipment, to be positioned to  
suit by shipbuilder.

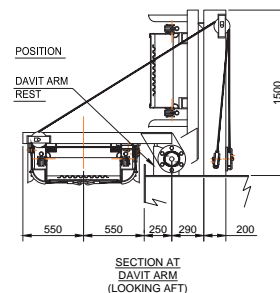
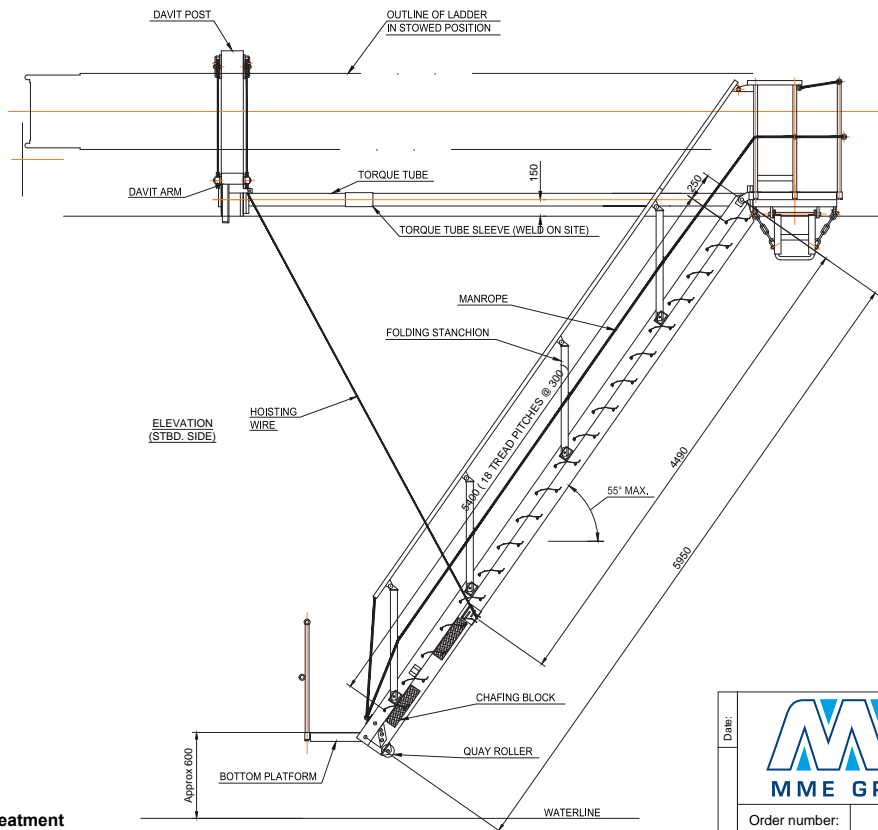
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18	T.T.P. handrails	Mild steel	2	37	Control box	IP54	1
17	Understay chain	Mild steel	2	36	Push button controls	IP56	1
16	Understay	Mild steel	1	35	Hoisting winch	EW680 electric	1
15	Turntable top platform	Mild steel	1	34	Hoisting wire	Ø10 mm G.S.W.R.	2
14	Ladder pivot pin	Mild steel	2	33	Manrope	Ø16 mm PP	AS required
13	Rope guide	Mild steel	2	32	Sheave pin	Stainless steel 316	8
12	Quay roller	Mild steel	1	31	Davit arm pivot pin	Stainless steel 316	1
11	Chafing block	Hardwood	2	30	T.T.P. pivot pin	Stainless steel 316	2
10	Bottom platform stanchion	Alum. alloy 6082 T6	2	29	Guide roller pin	Stainless steel 316	1
9	Bottom platform	Alum. alloy 6082 T6	1	28	Ø6" sheave	Nylatron	8
8	Handrail link	Alum. alloy 6082 T6	2	27	Ø2" guide roller	Nylatron	1
7	Folding handrail	Alum. alloy 6082 T6	2	26	Winch seat	Mild steel	1
6	Folding stanchion	Alum. alloy 6082 T6	6	25	Davit post	Mild steel	1
5	Stanchion box	Alum. alloy 6082 T6	6	24	Davit arm support/deck lug	Mild steel	1
4	Bracing	Alum. alloy 6082 T6	As required	23	Davit arm	Mild steel	1
3	Screening	Alum. alloy 6082 T6	As required	22	Torque tube sleeve	Mild steel	1
2	Curved step	Alum. alloy 6082 T6	13	21	Torque tube	Mild steel	1
1	Accommodation ladder	Alum. alloy 6082 T6	1	20	Deck lug	Mild steel	2
Item	Description	Material	No. off	Item	Description	Material	No. off

Rev.	Date:	 <div> <b>Cathodic Protection Division</b>  Rietdijkstraat 16  P.O. Box 4222  2980 GE Ridderkerk  Netherlands  Tel: +31 (0)180 48 28 28  E-mail: sales@mme.nl  www.mme-group.com </div>		<b>Projection:</b> 
	Scale: NTS			
Description:	Order number:	<b>Accommodation Ladder &amp; Self-Stowing Gear Gangway (4.15 m)</b>		
	Drawn: ESM    Date: 19-08-19    Project: Checked: RvW    Date: 23-08-19    Dwg: GA.001-04-B01	Sheet 1/2		
	Approved: TYNE    Date: 25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Material Metingen Europe.		





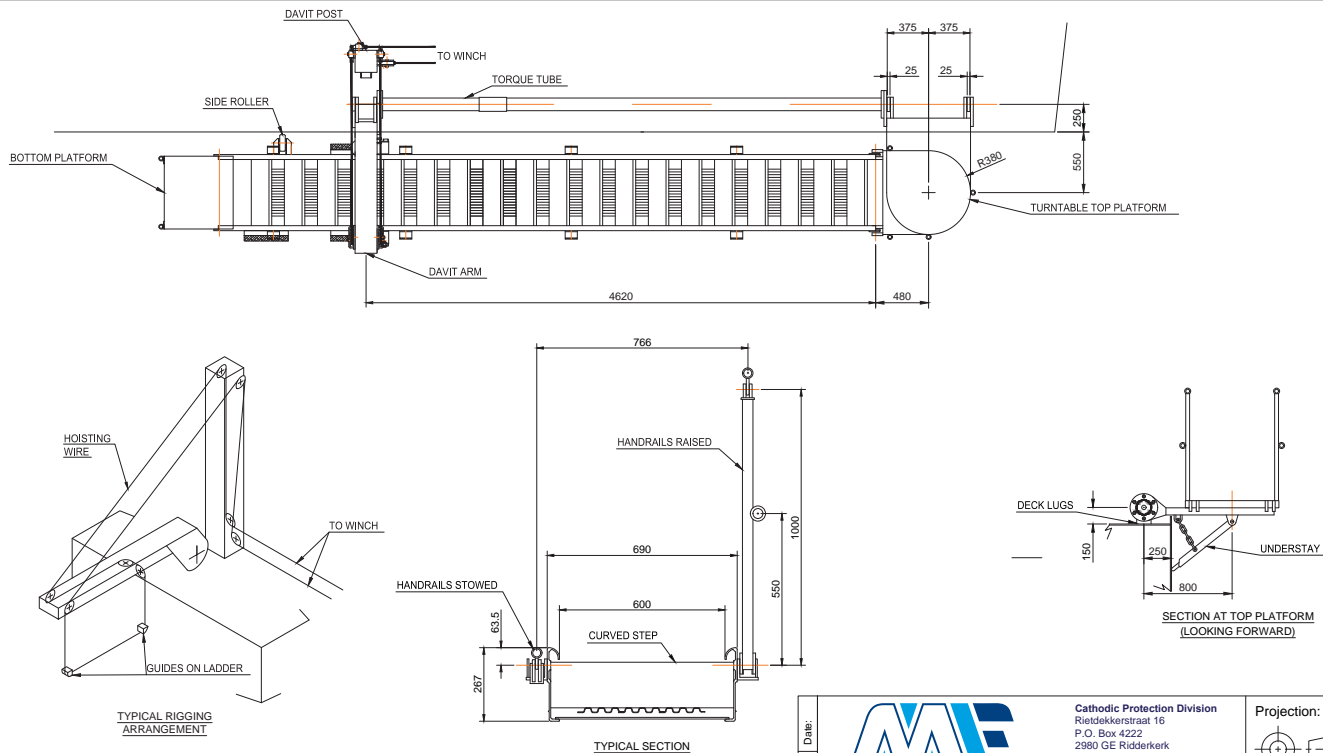
Date:				<b>Cathodic Protection Division</b> Rietdekkerstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com		<b>Projection:</b> 
						Scale: NTS
Description:	Order number:		<b>Accommodation Ladder &amp; Self-Stowing Gear Gangway (4.15 m)</b>			
	Drawn: ESM	Date: 19-08-19	Project:			Sheet 2/2
	Checked: RvW	Date: 23-08-19	Dwg: GA.001-04-B01			
	Approved: TYNE	Date: 25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Material Meetingen Europe.			
Rev.						A5



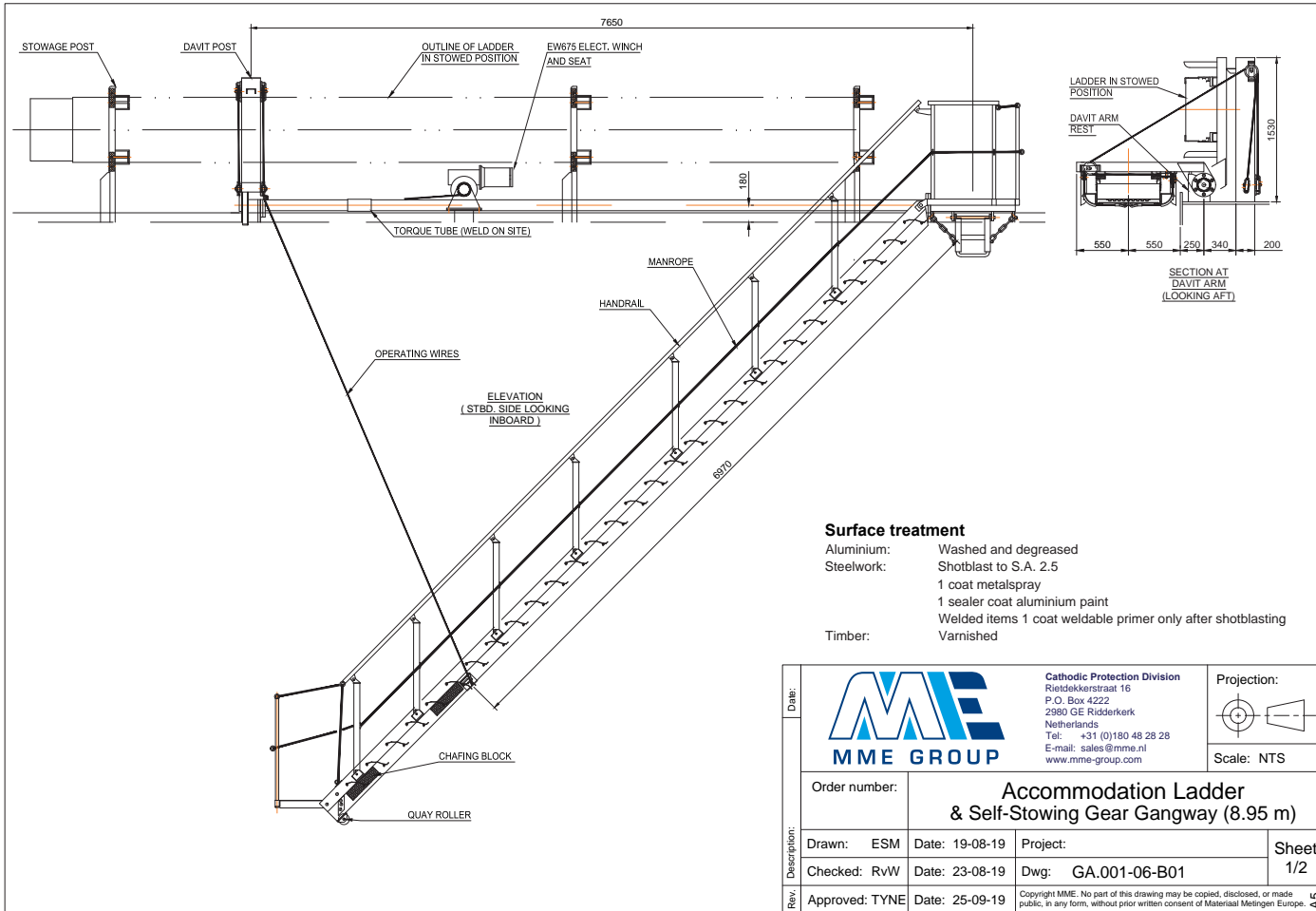
### Surface treatment

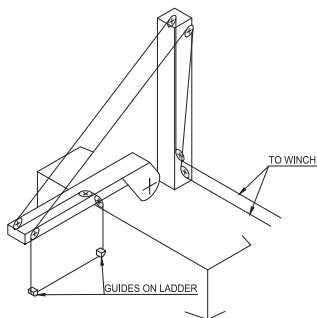
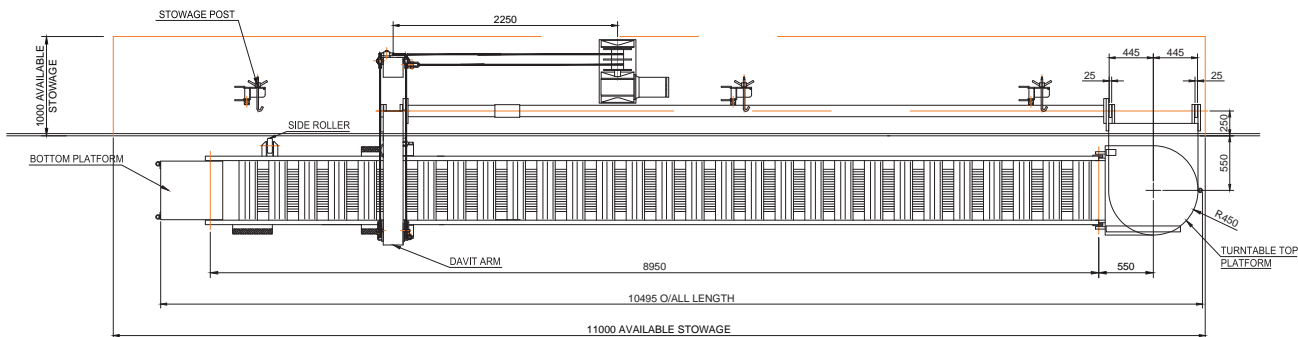
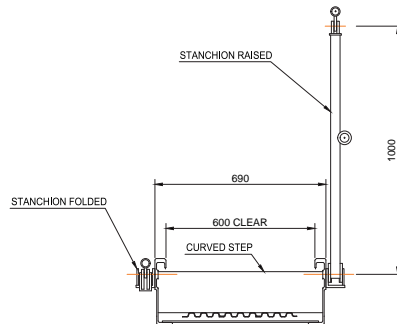
Aluminium:	Washed and degreased
Steelwork:	Shotblast to S.A. 2.5
	1 coat metalspray
	1 sealer coat aluminium paint
	Welded items 1 coat weldable primer only after shotblasting
Timber:	Varnished

Date:				<b>Cathodic Protection Division</b> Rietdekkerstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com	<b>Projection:</b>  Scale: NTS
	<b>Order number:</b>				
Description:	<b>Accommodation Ladder &amp; Self-Stowing Gear Gangway (5.95 m)</b>				
	<b>Drawn:</b> ESM	<b>Date:</b> 19-08-19	<b>Project:</b>		<b>Sheet</b> 1/2
	<b>Checked:</b> RvW	<b>Date:</b> 23-08-19	<b>Dwg:</b> GA.001-05-B01		
Rev.	<b>Approved:</b> TYNE	<b>Date:</b> 25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Material Metingen Europe.		

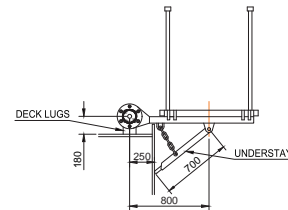


Date:				Cathodic Protection Division Rietdijkstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com	Projection: 
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Description:	Order number:		Accommodation Ladder & Self-Stowing Gear Gangway (5.95 m)		
	Drawn: ESM	Date: 19-08-19	Project:	Sheet 2/2	
	Checked: RvW	Date: 23-08-19	Dwg: GA.001-05-B01		
Rev.	Approved: TYNE	Date: 25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Material Metingen Europe.		

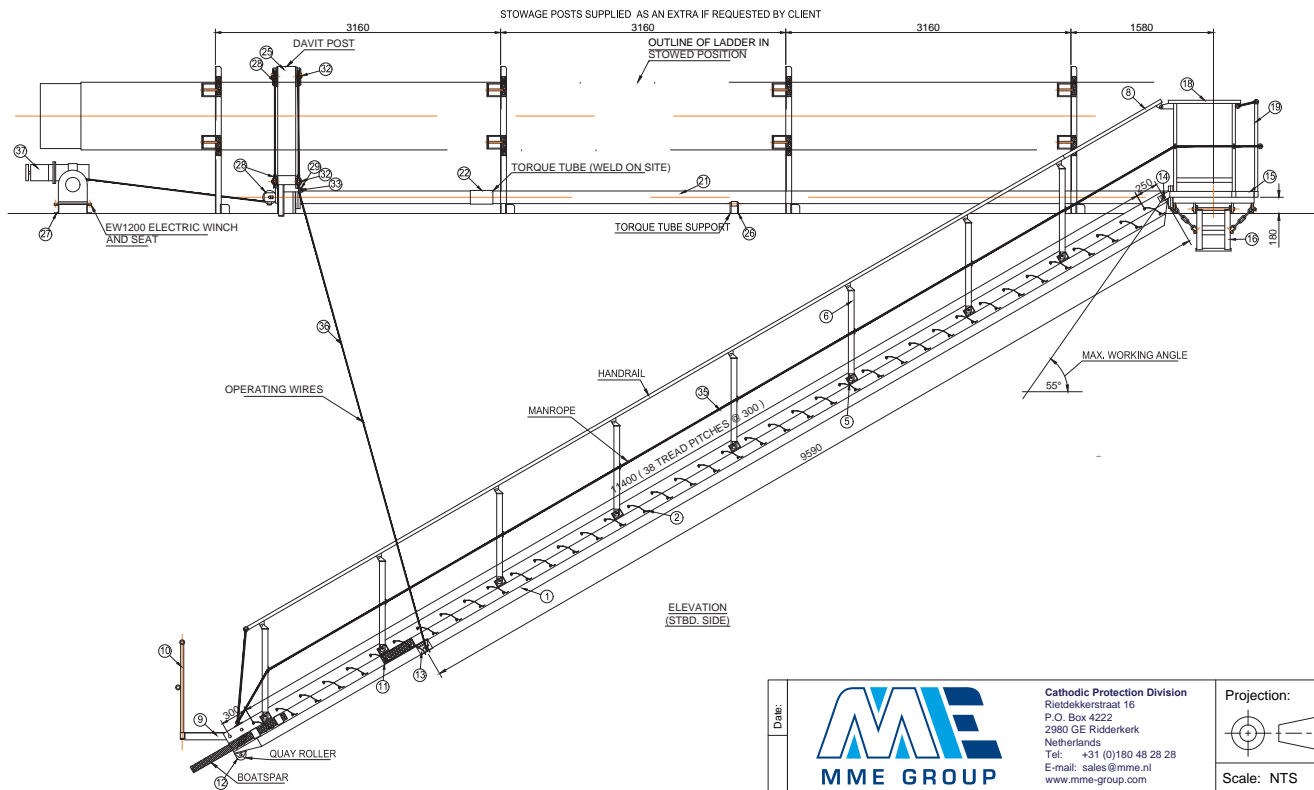


TYPICAL RIGGING  
ARRANGEMENT

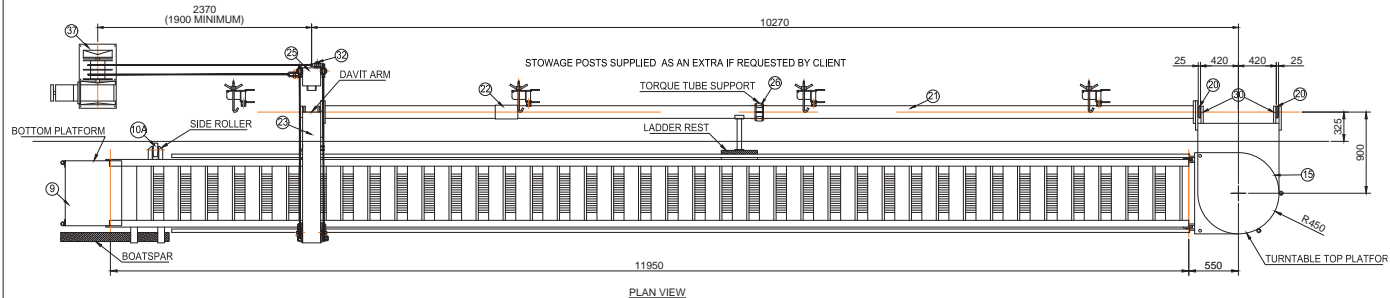
TYPICAL SECTION

SECTION AT TOP PLATFORM  
(LOOKING FORWARD)

Date:				<div>Cathodic Protection Division Rietdijkstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com</div>	<div>Projection: </div>		
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Order number:			Accommodation Ladder & Self-Stowing Gear Gangway (8.95 m)				
Description:	Drawn: ESM	Date: 19-08-19	Project:		Sheet 2/2		
	Checked: RvW	Date: 23-08-19	Dwg: GA.001-06-B01				
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		Approved: TYNE					



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			Scale: NTS	
Description:	Order number:	Accommodation Ladder & Self-Stowing Gear Gangway (11.95 m)		
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	Checked: RvW	Date: 23-08-19	Dwg: GA.001-07-B01	
Rev:	Approved: TYNE	Date: 25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.	

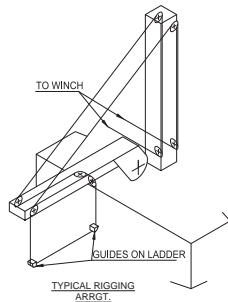


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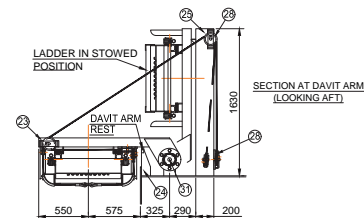
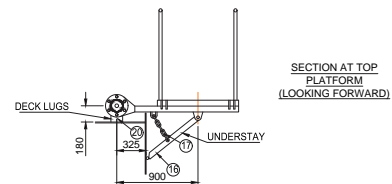
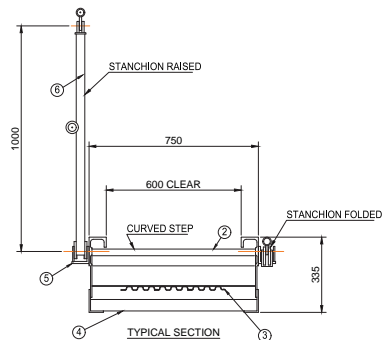
\* Indicates item (not shown on drawing), supplied with equipment, to be positioned to suit by shipbuilder.

20	Deck lug	Mild steel	2	@ 40	Control box	IP54	2
19	T.T.P. stanchion	Mild steel	1	*39	Limit switch	IP66	1
18	T.T.P. handrails	Mild steel	2	*38	Push button controls	IP66	1
17	Understay chain	Mild steel	2	37	Hoisting winch	EW675 electric IP56	1
16	Understay	Mild steel	1	36	Hoisting wire	Ø10 mm G.S.W.R.	2
15	Turntable top platform	Mild steel	1	35	Manrope	Ø16 mm PP	AS required
14	Ladder pivot pin	Mild steel	2	34	Stowage post	Mild steel	4
13	Rope guide	Mild steel	2	33	Guide roller pin	Stainless steel 316	1
12	Quay roller	Mild steel	1	32	Sheave pin	Stainless steel 316	8
11	Chafing block	Hardwood	3	31	Davit arm pivot pin	Stainless steel 316	1
10a	Ship side roller	Al/rubber tyredwheel	1	30	T.T.P. pivot pin	Stainless steel 316	2
10	Bottom platform stanchion	Alum. alloy 6082 T6	2	29	Ø2" guide roller	Nylatron	1
9	Bottom platform	Alum. alloy 6082 T6	1	28	Ø6" sheave	Nylatron	8
8	Handrail link	Alum. alloy 6082 T6	2	27	Winch seat	Mild steel	1
7	Folding handrail	Alum. alloy 6082 T6	2	26	Torque tube support	Mild steel	1
6	Folding stanchion	Alum. alloy 6082 T6	10	25	Davit post	Mild steel	1
5	Stanchion box	Alum. alloy 6082 T6	10	24	Davit arm support/deck lug	Mild steel	1
4	Bracing	Alum. alloy 6082 T6	As required	23	Davit arm	Mild steel	1
3	Screening	Alum. alloy 6082 T6	2	22	Torque tube sleeve	Mild steel	1
2	Curved step	Alum. alloy 6082 T6	39	21	Torque tube	Mild steel	1
1	Accommodation ladder	Alum. alloy 6082 T6	1	20	Deck lug	Mild steel	2
Item	Description	Material	No. off	Item	Description	Material	No. off

Date:					Cathodic Protection Division Rietdekkerstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com	Projection: 
						Scale: NTS
Description:	Order number:		Accommodation Ladder & Self-Stowing Gear Gangway (11.95 m)			
	Drawn: ESM	Date: 19-08-19	Project:			Sheet 2/3
	Checked: RvW	Date: 23-08-19	Dwg: GA.001-07-B01			
	Approved: TYNE	Date: 25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Material Metingen Europe.			
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OPERATING VI



Date:	 <p>Cathodic Protection Division Rietdekkerstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com</p>	Projection: 	
		Scale: NTS	
Description:	Order number:	<b>Accommodation Ladder &amp; Self-Stowing Gear Gangway (11.95 m)</b>	
	Drawn: ESM	Date: 19-08-19	Project:
	Checked: RvW	Date: 23-08-19	Dwg: GA.001-07-B01
	Approved: TYNE	Date: 25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.
Rev.			



# Replacement Accommodation Ladder

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When an accommodation ladder needs to be replaced, it is not always possible/desirable to purchase it from the original supplier. You want a fast and cost-effective solution to get your vessel sailing again. In that situation, Harbinger replacement accommodation ladders are your best choice.

In order to ensure a correct fit of the ladder to the existing stowing gear, detailed information of the existing system is required. All replacement accommodation ladders are manufactured by using either the original drawings, client supplied measurements using our checklist, or by using information obtained during a visit to the vessel.

Advantages of Harbinger replacement accommodation ladders:

- Quick delivery times
- Competitive pricing and value for money
- No modifications required thus saving time and money
- Use of high quality light-weight seawater resistant aluminium

**Scan one of the codes below for a replacement form**

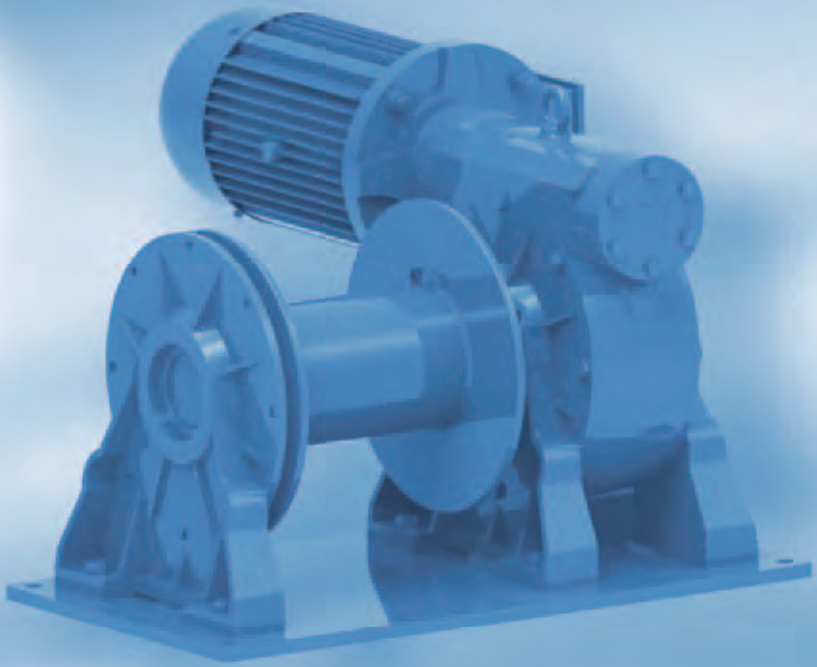


**For an accommodation  
ladder with top platform**



**For an accommodation  
ladder without top  
platform**





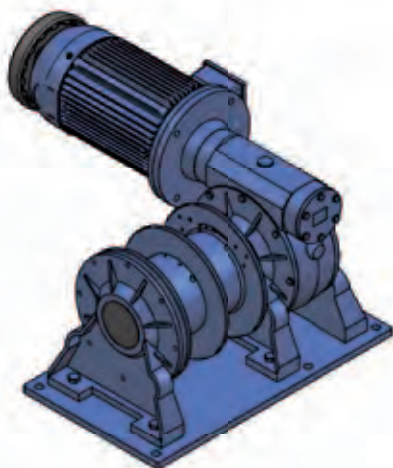
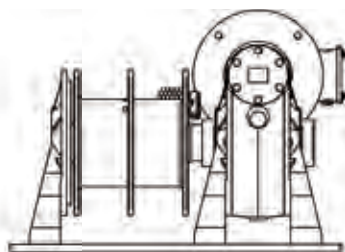
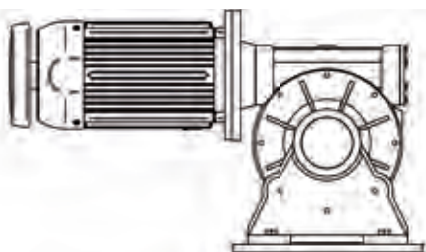
# Winches

# Winches

The winches are designed to position and hold accommodation and ship-to-shore ladders and ladders between vessels and offshore installations. Constructed in accordance with SOLAS requirements for international shipping, the range features a dynamically and statically self-braking wormgear and emergency hand crank. Each type may be configured for single or twin rope operation and powered by means of an electric or pneumatic motor. Custom-built designs are also possible.

Accommodation Ladder Winches: 500W, 850W, 1000W, 1500W

Wormgear Winches: 750W



# Standard Gangway types

- **Shallow Angle Lightweight Aluminium Gangways (SHALA gangways)**
- **Steep Angle Lightweight Aluminium Gangways (SALA gangways)**
- **Turn Table Platforms**
- **Bulwark Ladders**
- **Shore Type A Gangways**
- **Onshore & Offshore Overhead Braced Gangways**
- **Modular Gangways**
- **Naval Brows**





**SHALA Gangways**

# SHALA Gangways

**Short range, shallow 0 - 30 degrees working angle, lightweight aluminium gangways for easy ship-shore access with standard ship hook and jetty roller.**

Standard supply:

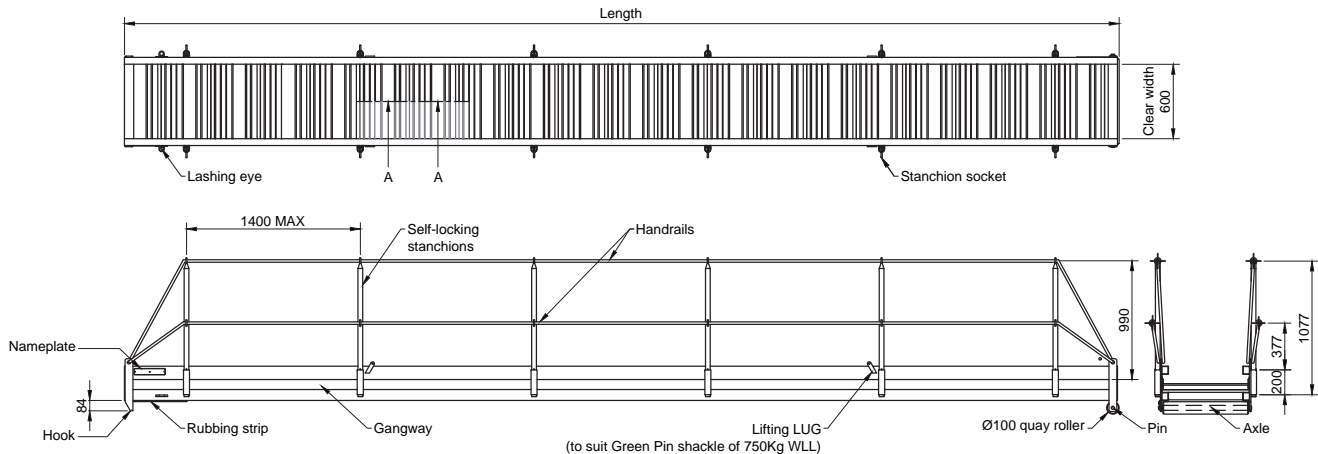
- Manufactured in accordance with ISO 7061
- Manufactured from Marine Grade Lightweight Aluminium 6082 T6
- 600 mm clear width
- Anti-slip surface
- Standard ship hook & quay roller
- Self-locking stanchions and polypropylene hand rail & half-height
- Lifting & lashing lugs

Optional extra's on request:

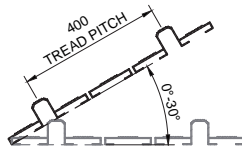
- Safety net
- Lifting sling
- Removable rigid handrails
- Ship hook, swivel yoke options to suit vessel type
- Quay roller options to suit site availability
- Centre transport wheels
- In house test certificate
- 3rd party test certificate

Product Specifications	
Length (m)	Weight (Kg)
2	50
2,5	58
3	72
3,5	75
4	89
4,5	101
5	108
5,5	119
6	129
6,5	166
7	176
7,5	190
8	202
8,5	207
9	226
9,5	276
10	287
11	341
11,5	359
12	372





### Section A-A



#### AVAILABLE LENGTHS

Length (m)	Weight (Kg)	Length (m)	Weight (Kg)
2	50	7	176
2,5	58	7,5	190
3	72	8	202
3,5	75	8,5	207
4	89	9	226
4,5	101	9,5	276
5	108	10	287
5,5	119	11	341
6	129	11,5	359
6,5	166	12	372

#### Included certificates

- Gangways are type approved by DNV-GL to ISO 7061 in accordance with IMO MSC.1/CIRC. 1331
- Factory issued load test

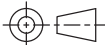
#### Optional accessories

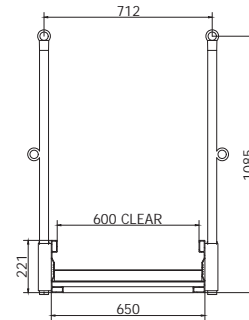
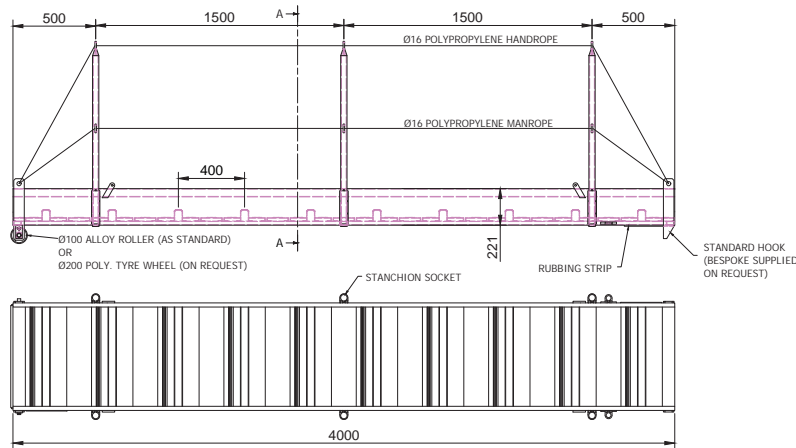
- 3<sup>rd</sup> party witness load test certificate
- Safety net
- Lifting sling
- Ø200 wheels

#### Optional customization

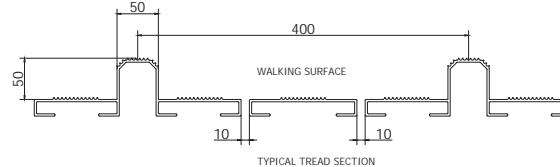
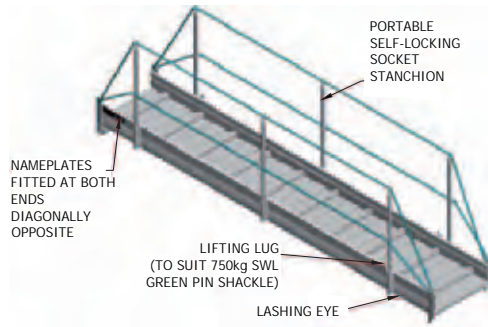
- Rigid handrails
- Custom hook
- Any other modification on request

Gangway	Aluminium alloy 6082-T6
Stanchions	Aluminium alloy 6082-T6
Pins & Axles	Stainless steel 316
Handrails	Polypropylene rope Ø16
<b>Description</b>	<b>Material</b>

Date:			Cathodic Protection Division Rietdijkerstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com		Projection: 
			Scale: NTS		
Order number:	<b>SHALA Gangways</b> Shallow Angle Lightweight Aluminium Gangways				
Drawn: ESM	Date: 26-04-19	Project:			Sheet 1/1
Checked: RvW	Date: 28-05-19	Dwg: GA.002-01-B01			
Approved: PP	Date: 28-05-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.			




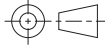
A-A: TYPICAL SECTION

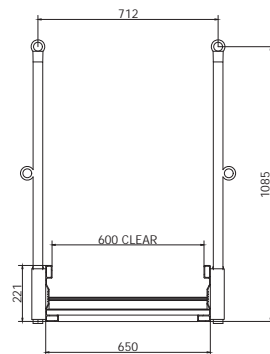
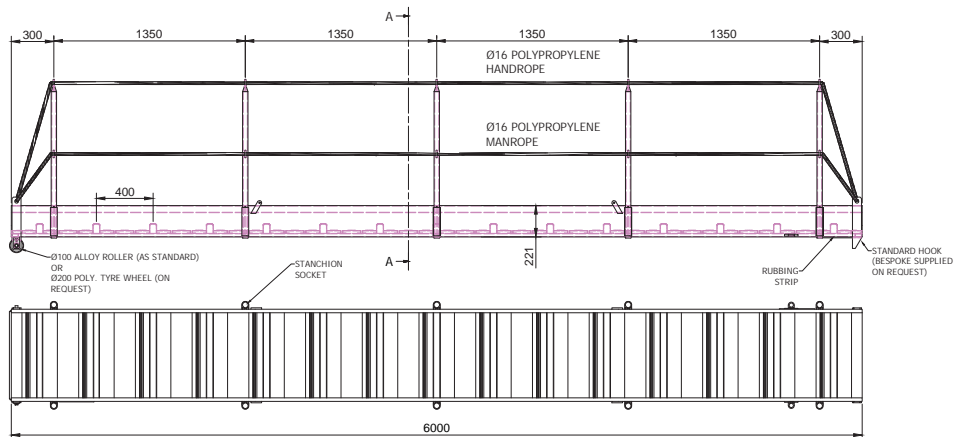


GANGWAYS TYPE APPROVED BY DNV-GL TO ISO 7061  
IN ACCORDANCE WITH IMO MSC.1/CIRC.1331  
TEST LOAD: 5kN/M<sup>2</sup>  
SWL: 4kN/M<sup>2</sup>  
WEIGHT: 86kg  
MATERIAL : ALUMINIUM ALLOY 6082 T6  
TO SUIT ANGLES UP TO 30°

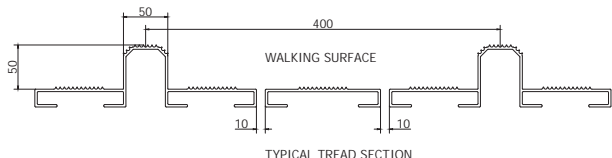
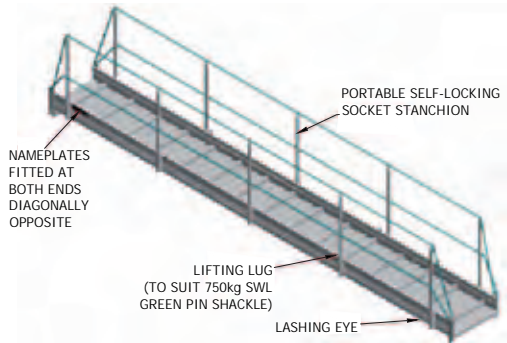
OPTIONAL EXTRAS ON REQUEST

- SAFETY NET
- LIFTING SLING
- IN HOUSE TEST CERTIFICATE
- 3RD PARTY TEST CERTIFICATE
- REMOVABLE RIGID HANDRAILS

Date:	 <b>MME GROUP</b>		Cathodic Protection Division Rietdekkenstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com		Projection:	
					Scale: NTS	
Description:	Order number:		<b>SHALA Gangways</b> (Shallow Angle Lightweight Aluminium - 4m)			
	Drawn: ESM	Date: 22-08-19	Project:			Sheet 1/1
	Checked: RvW	Date: 23-08-19	Dwg: GA.002-02-B01			
	Approved: TYNE	Date: 25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.			
Rev.						A5



A-A: TYPICAL SECTION

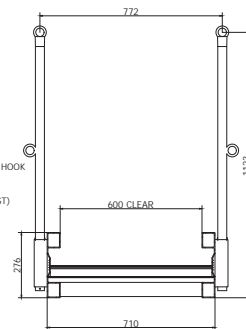
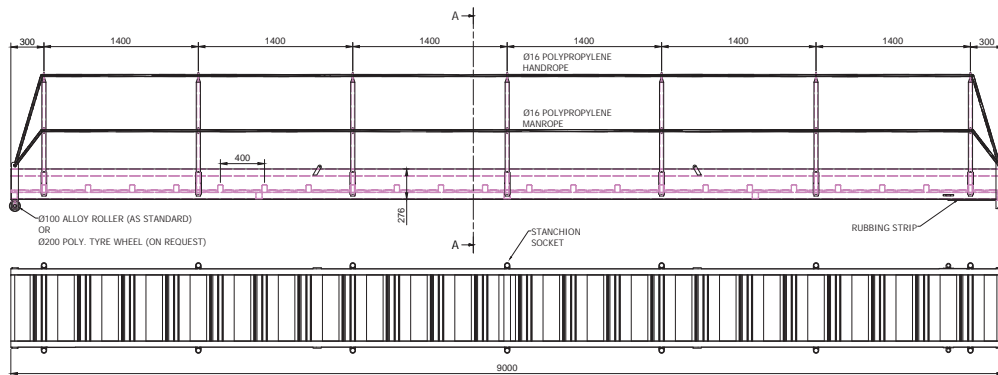


GANGWAYS TYPE APPROVED BY DNV-GL TO ISO 7061  
IN ACCORDANCE WITH IMO MSC.1/CIRC.1331  
TEST LOAD: 5kN/M<sup>2</sup>  
SWL: 4kN/M<sup>2</sup>  
WEIGHT: 127kg  
MATERIAL : ALUMINIUM ALLOY 6082 T6  
TO SUIT ANGLES UP TO 30°

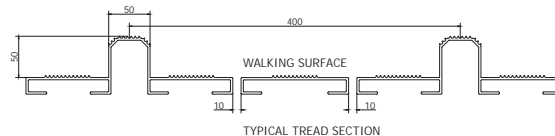
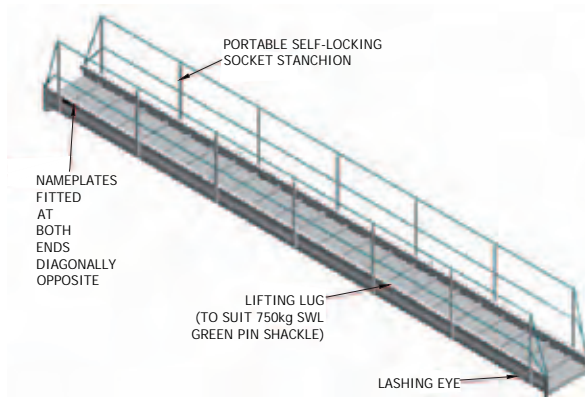
OPTIONAL EXTRAS ON REQUEST

- SAFETY NET
- LIFTING SLING
- IN HOUSE TEST CERTIFICATE
- 3RD PARTY TEST CERTIFICATE
- REMOVABLE RIGID HANDRAILS

Date:			Cathodic Protection Division Rietdijkstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com		Projection:	
					Scale: NTS	
Description:	Order number:	SHALA Gangways (Shallow Angle Lightweight Aluminium - 6m)				
	Drawn: ESM	Date: 22-08-19	Project:		Sheet 1/1	
	Checked: RvW	Date: 23-08-19	Dwg: GA.002-03-B01			
Rev.	Approved: TYNE	Date: 25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Material Metingen Europe.			



A-A: TYPICAL SECTION

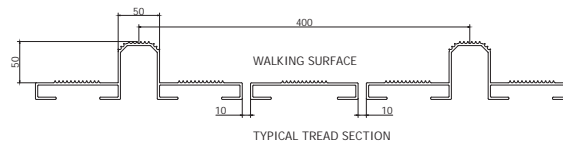
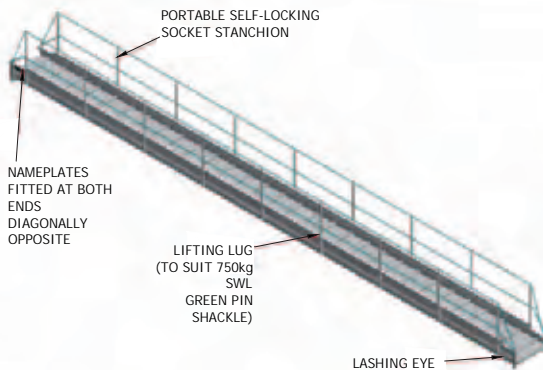
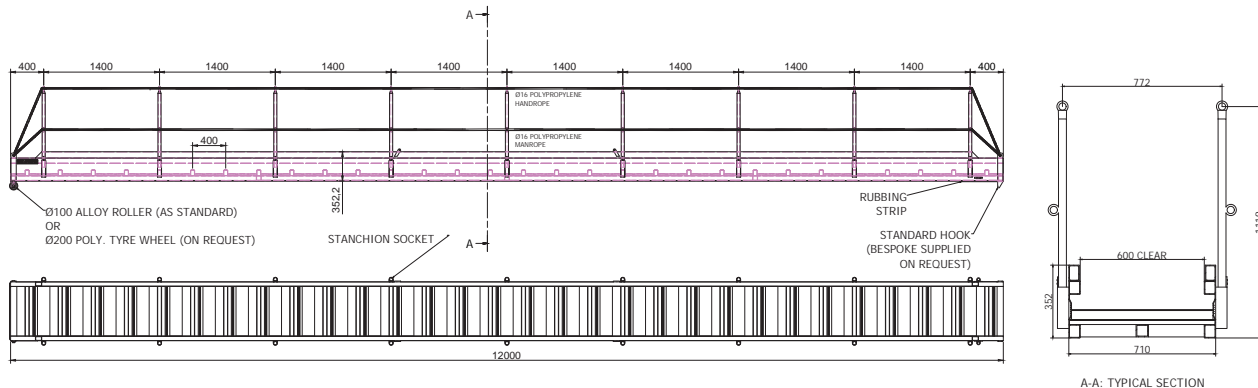


GANGWAYS TYPE APPROVED BY DNV-GL TO ISO 7061  
IN ACCORDANCE WITH IMO MSC.1/CIRC.1331  
TEST LOAD: 5kN/M<sup>2</sup>  
SWL: 4kN/M<sup>2</sup>  
WEIGHT: 222kg  
MATERIAL : ALUMINIUM ALLOY 6082 T6  
TO SUIT ANGLES UP TO 30°

OPTIONAL EXTRAS ON REQUEST

- SAFETY NET
- LIFTING SLING
- IN HOUSE TEST CERTIFICATE
- 3RD PARTY TEST CERTIFICATE
- REMOVABLE RIGID HANDRAILS


Date:				<b>Cathodic Protection Division</b> Rietdekkerstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com		<b>Projection:</b> 
						<b>Scale: NTS</b>
Description:	Order number:		<b>SHALA Gangways</b> (Shallow Angle Lightweight Aluminium - 9m)			
	Drawn: ESM	Date: 22-08-19	Project:			Sheet 1/1
	Checked: RvW	Date: 23-08-19	Dwg: GA.002-04-B01			
Rev:	Approved: TYNE	Date: 25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.			



GANGWAYS TYPE APPROVED BY DNV-GL TO ISO 7061  
IN ACCORDANCE WITH IMO MSC.1/CIRC.1331  
TEST LOAD: 5kN/M<sup>2</sup>  
SWL: 4kN/M<sup>2</sup>  
WEIGHT: 367kg  
MATERIAL : ALUMINIUM ALLOY 6082 T6  
TO SUIT ANGLES UP TO 30°

#### OPTIONAL EXTRAS ON REQUEST

- SAFETY NET
- LIFTING SLING
- IN HOUSE TEST CERTIFICATE
- 3RD PARTY TEST CERTIFICATE
- REMOVABLE RIGID HANDRAILS

Date:			<b>Cathodic Protection Division</b> Rietdekkerstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com	<b>Projection:</b> 	
				Scale: NTS	
Order number:		<b>SHALA Gangways</b> (Shallow Angle Lightweight Aluminium - 12m)			
Description:	Drawn: ESM	Date: 22-08-19		Project:	Sheet 1/1
	Checked: RvW	Date: 23-08-19		Dwg: GA.002-05-B01	
Rev.	Approved: TYNE	Date: 25-09-19		Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.	



**SALA Gangways**

# SALA Gangways

**Short range, steep 0 - 50 degrees working angle, lightweight aluminium gangways for easy ship-shore access with standard ship hook and jetty roller.**

Standard supply:

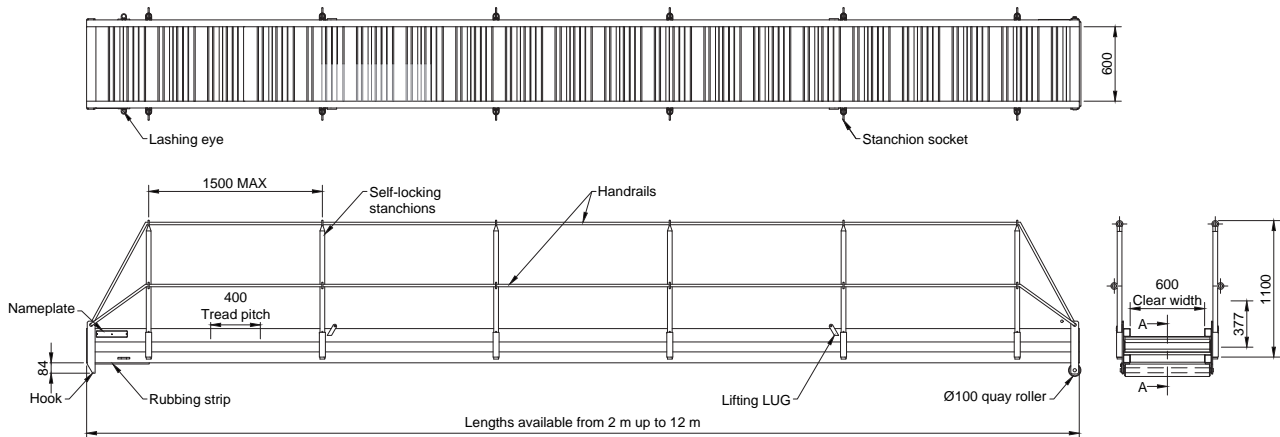
- Manufactured in accordance with ISO 7061
- Manufactured from Marine Grade Lightweight Aluminium 6082 T6
- 600 mm clear width
- Anti-slip surface
- Standard ship hook & quay roller
- Self-locking stanchions and polypropylene hand rail & half-height
- Lifting & lashing lugs

Optional extra's on request:

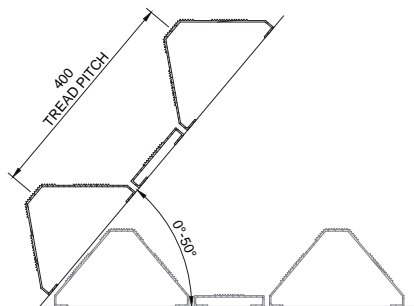
- Safety net
- Lifting sling
- Removable rigid handrails
- Ship hook, swivel yoke options to suit vessel type
- Quay roller options to suit site availability
- Centre transport wheels
- In house test certificate
- 3rd party test certificate

Product Specifications	
Length (m)	Weight (Kg)
2	50
2,5	58
3	72
3,5	75
4	89
4,5	101
5	108
5,5	119
6	129
6,5	166
7	176
7,5	190
8	202
8,5	207
9	226
9,5	276
10	287
11	341
11,5	359
12	372





**Section A-A**




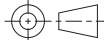
**Optional accessories**

- 3<sup>rd</sup> party witness load test
- Safety net
- Lifting sling
- Wheels

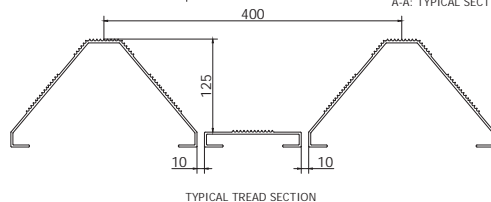
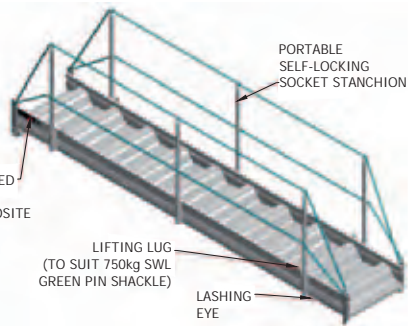
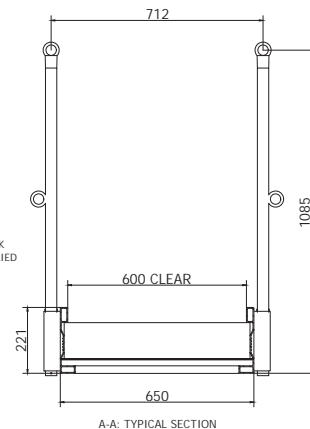
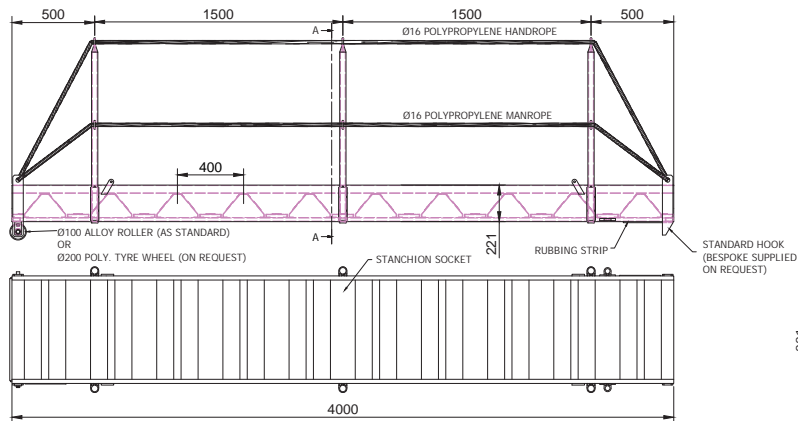
**Optional customization**

- Ridged handrails
- Hook

PRODUCT SPECIFICATIONS			
Length (m)	Weight (Kg)	Length (m)	Weight (Kg)
2	50	6,5	166
2,5	58	7	176
3	72	7,5	190
3,5	75	8	202
4	89	9	226
4,5	101	10	287
5	108	11	341
6	129	12	372

Date:				<b>Cathodic Protection Division</b> Rietdijkstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com		<b>Projection:</b>  <b>Scale: NTS</b>
	Order number:			<b>SALA Gangways</b> <b>Steep Angle Lightweight Aluminium Gangways</b>		
Description:	Drawn: ESM	Date: 29-04-19	Project:			Sheet 1/1
	Checked: RvW	Date: 28-05-19	Dwg: GA.003-01-B01			
Rev.	Approved: PP	Date: 28-05-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.			





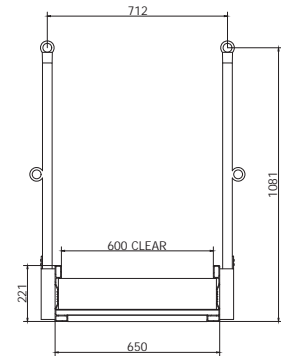
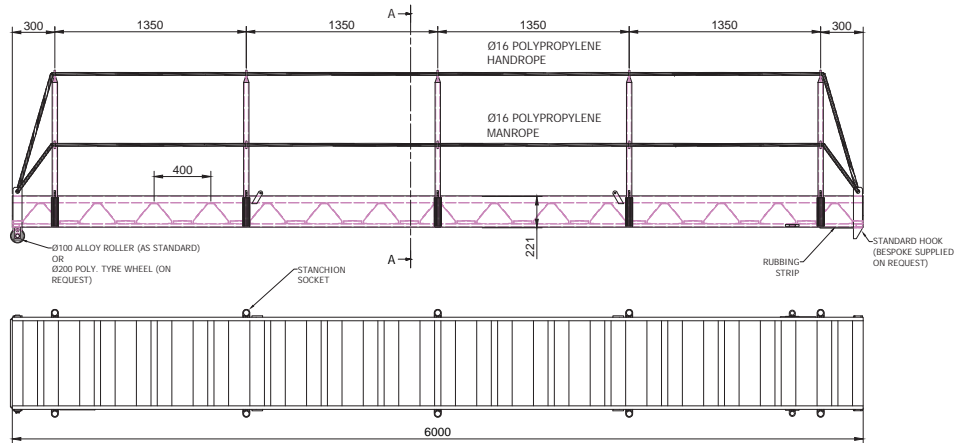


GANGWAYS TYPE APPROVED BY DNV-GL TO ISO 7061  
IN ACCORDANCE WITH IMO MSC.1/CIRC.1331  
TEST LOAD: 5kN/M<sup>2</sup>  
SWL: 4kN/M<sup>2</sup>  
WEIGHT: 86kg  
MATERIAL : ALUMINIUM ALLOY 6082 T6  
TO SUIT ANGLES UP TO 50°

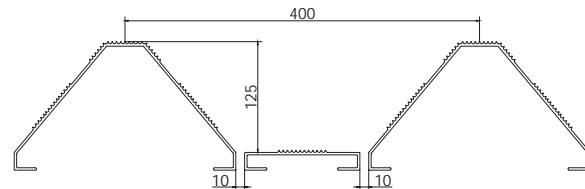
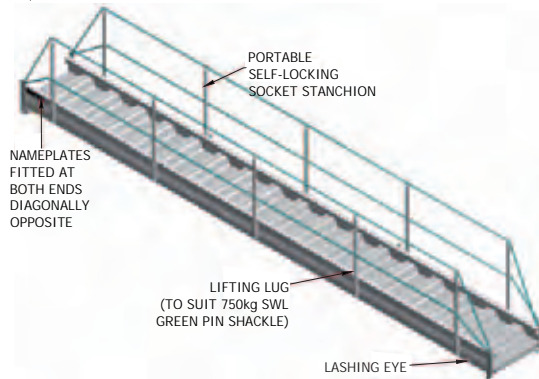
#### OPTIONAL EXTRAS ON REQUEST

- SAFETY NET
- LIFTING SLING
- IN HOUSE TEST CERTIFICATE
- 3RD PARTY TEST CERTIFICATE
- REMOVABLE RIGID HANDRAILS

Date:				<b>Cathodic Protection Division</b> Rietdekkerstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com	<b>Projection:</b> 
					<b>Scale:</b> NTS
Description:	Order number:		<b>SALA Gangways</b> (Steep Angle Lightweight Aluminium - 4m)		
	Drawn: ESM	Date: 22-08-19	Project:		Sheet 1/1
	Checked: RvW	Date: 23-08-19	Dwg: GA.003-02-B01		
	Approved: TYNE	Date: 25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.		
Rev.					



A-A: TYPICAL SECTION



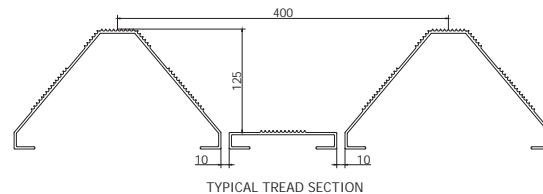
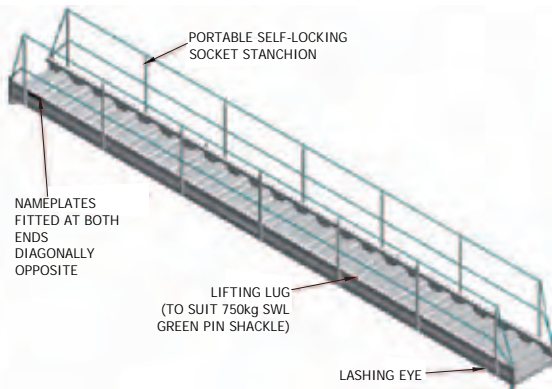
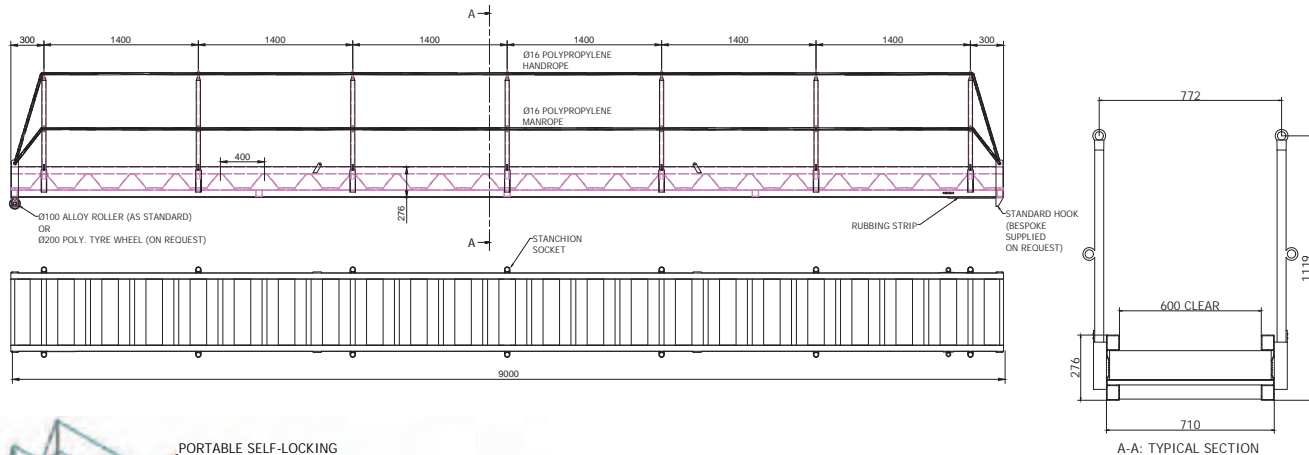
TYPICAL TREAD SECTION

GANGWAYS TYPE APPROVED BY DNV-GL TO ISO 7061  
IN ACCORDANCE WITH IMO MSC.1/CIRC.1331  
TEST LOAD: 5kN/M<sup>2</sup>  
SWL: 4kN/M<sup>2</sup>  
WEIGHT: 126kg  
MATERIAL : ALUMINIUM ALLOY 6082 T6  
TO SUIT ANGLES UP TO 50°

OPTIONAL EXTRAS ON REQUEST

- SAFETY NET
- LIFTING SLING
- IN HOUSE TEST CERTIFICATE
- 3RD PARTY TEST CERTIFICATE
- REMOVABLE RIGID HANDRAILS

Date:				<b>Cathodic Protection Division</b> Rietdekerstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com		<b>Projection:</b> 
						<b>Scale:</b> NTS
	Order number:			<b>SALA Gangways</b> <b>(Steep Angle Lightweight Aluminium - 6m)</b>		
	Description:	Drawn: ESM	Date: 22-08-19	Project:		Sheet 1/1
		Checked: RvW	Date: 23-08-19	Dwg: GA.003-03-B01		
		Approved: TYNE	Date: 25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.		
Rev.						

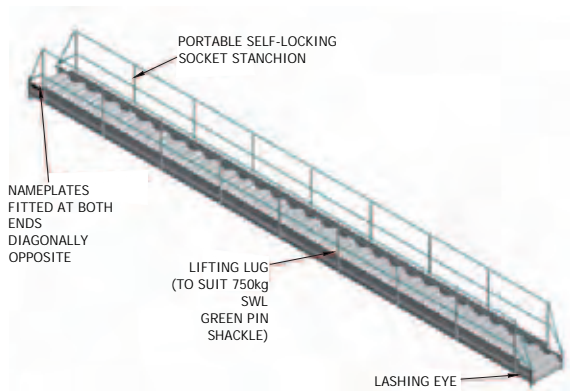
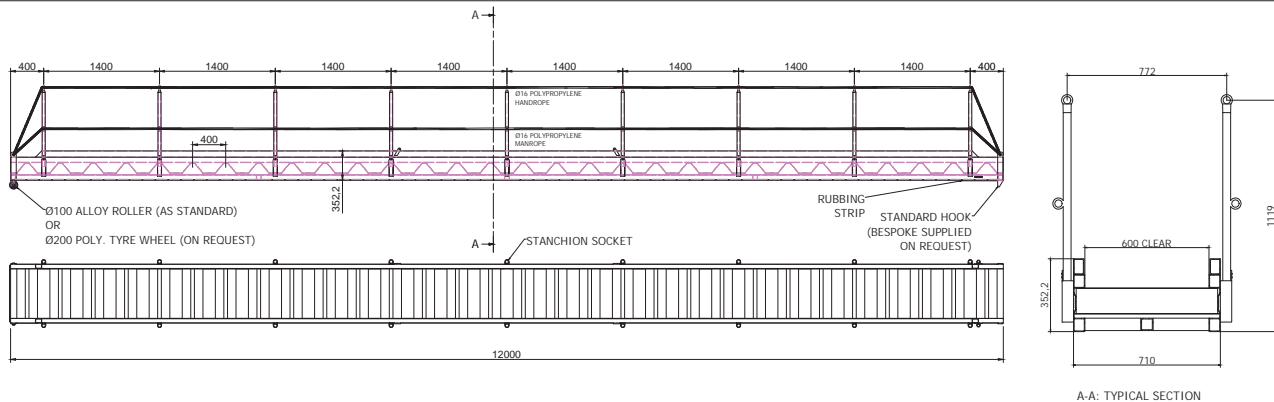


GANGWAYS TYPE APPROVED BY DNV-GL TO ISO 7061  
IN ACCORDANCE WITH IMO MSC.1/CIRC.1331  
TEST LOAD: 5kN/M<sup>2</sup>  
SWL: 4kN/M<sup>2</sup>  
WEIGHT: 221kg  
MATERIAL : ALUMINIUM ALLOY 6082 T6  
TO SUIT ANGLES UP TO 50°

#### OPTIONAL EXTRAS ON REQUEST

- SAFETY NET
- LIFTING SLING
- IN HOUSE TEST CERTIFICATE
- 3RD PARTY TEST CERTIFICATE
- REMOVABLE RIGID HANDRAILS

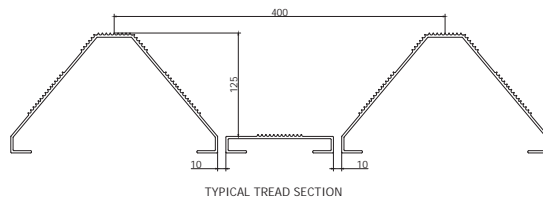
Date:			<b>Cathodic Protection Division</b> Rietdijkstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com		<b>Projection:</b> 
					Scale: NTS
					<b>SALA Gangways</b> (Steep Angle Lightweight Aluminium - 9m)
Description:	Order number:				
	Drawn: ESM	Date: 22-08-19	Project:		Sheet 1/1
	Checked: RvW	Date: 23-08-19	Dwg: GA.003-04-B01		
Rev.	Approved: TYNE	Date: 25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.		



GANGWAYS TYPE APPROVED BY DNV-GL TO ISO 7061  
IN ACCORDANCE WITH IMO MSC.1/CIRC.1331  
TEST LOAD: 5kN/M<sup>2</sup>  
SWL: 4kN/M<sup>2</sup>  
WEIGHT: 365kg  
MATERIAL : ALUMINIUM ALLOY 6082 T6  
TO SUIT ANGLES UP TO 50°

#### OPTIONAL EXTRAS ON REQUEST

- SAFETY NET
- LIFTING SLING
- IN HOUSE TEST CERTIFICATE
- 3RD PARTY TEST CERTIFICATE
- REMOVABLE RIGID HANDRAILS



Date:				<b>Cathodic Protection Division</b> Rietdekerstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com	<b>Projection:</b> 
					<b>Scale: NTS</b>
Description:	Order number:		<b>SALA Gangways</b> <b>(Steep Angle Lightweight Aluminium - 12m)</b>		
	Drawn: ESM	Date: 22-08-19	Project:		Sheet 1/1
	Checked: RvW	Date: 23-08-19	Dwg: GA.003-05-B01		
Rev.	Approved: TYNE	Date: 25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.		

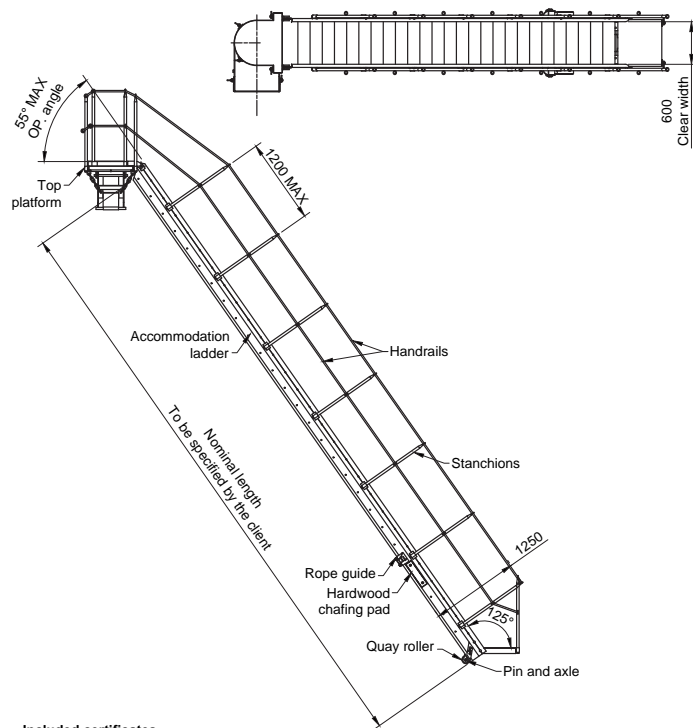


**Turntable top platforms**

# Turntable top platforms

---

Allows the gangway to rotate from the vessel, reducing floor space or landing areas where there is restricted quay access. The top platforms can also extend out from the vessel reducing stowage.



#### Included certificates

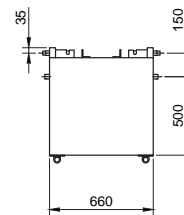
- Accommodation ladders are type approved by DNV-GL to ISO 5488 in accordance with IMO MSC.1/CIRC. 1331
- 3<sup>rd</sup> party witness load test certificate

#### Optional accessories

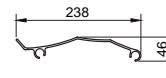
- Boatspar
- Ship side roller
- Flip over bottom platform

#### Optional customization

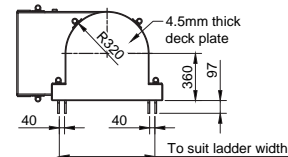
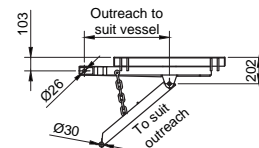
- Folding or fixed handrails
- Self-leveling steps
- Any other modification on request



**Optional: Bottom platform**



**Curved steps**



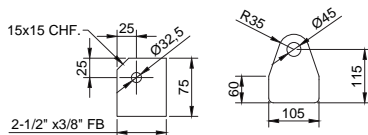
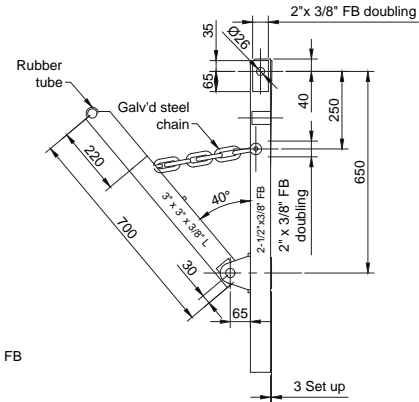
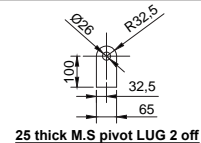
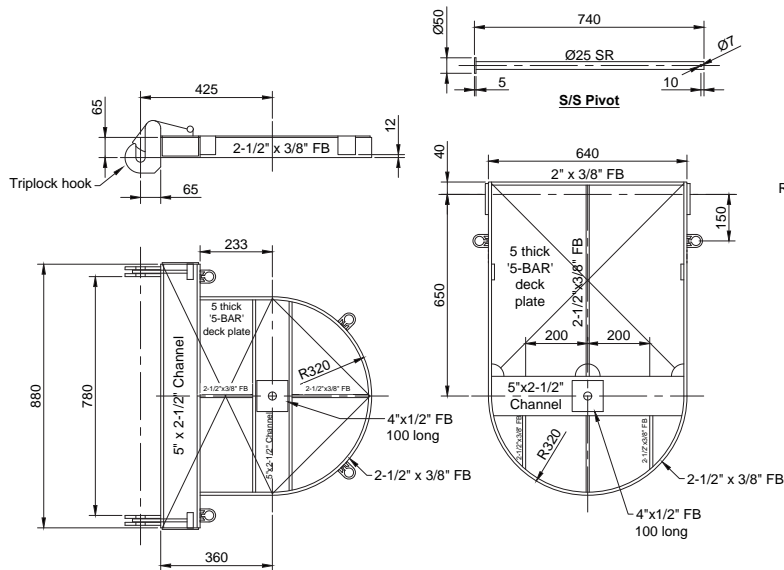
**Top platform details**



**Optional: Self-leveling tread**  
Showing pivot points on the stringer

Accommodation ladder	Aluminium alloy 6082-T6
Stanchions	Aluminium alloy 6082-T6
Pins & Axles	Stainless steel 316
Handrails	Polypropylene rope Ø16
Description	Material


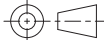
Date			<b>Cathodic Protection Division</b> Rietdijkstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com		<b>Projection:</b>  <b>Scale:</b> NTS
	Order number:		<b>Gangway</b> with turn table platform		
	Drawn: ESM	Date: 31-07-19	Project:	Sheet 1/1	
Rev.	Checked: RvW	Date: 23-08-19	Dwg: GA.001-03-B01		
	Approved: TYNE	Date: 25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.		



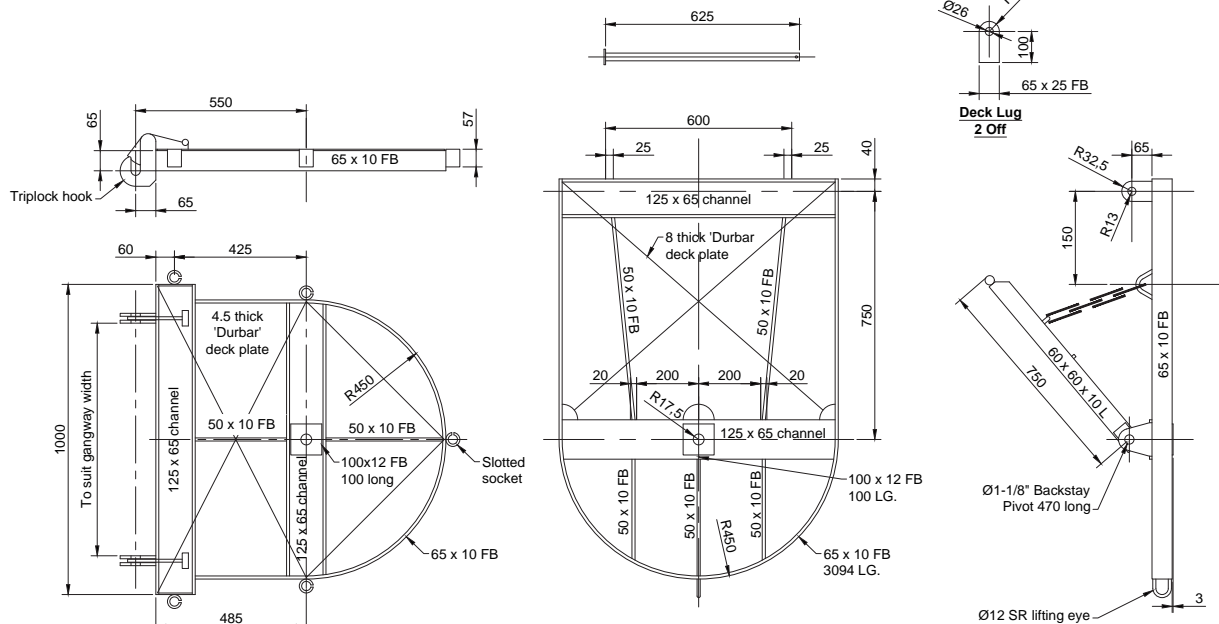
**Backstay chain BKT**  
2 off required

**Backstay BKT**  
2 off required cut  
from 6"x1/2" FB

**Material:**  
Aluminum alloy 6082-T6 (unless noted otherwise)  
**Finish:**  
Self-color, cleaned & degreased

Date:				<b>Cathodic Protection Division</b> Rietdijkstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com		<b>Projection:</b> 		
						<b>Scale:</b> NTS		
Description:	Order number:		<b>Turn Table Top Platform</b> <b>Aluminium Alloy With Triplock Hook</b>					
	Drawn: ESM		Date: 31-07-19		Project:		Sheet 1/1	
	Checked: RvW		Date: 23-08-19		Dwg: GA.013-02-B01			
	Approved: TYNE		Date: 25-09-19		Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.			
Rev.								A5





Date:		Cathodic Protection Division Rietdijkstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com		Projection:  Scale: NTS	
		Order number:			Turn Table Top Platform Mild Steel With Triplock Hoo
		Drawn: ESM	Date: 31-07-19	Project:	
		Checked: RvW	Date: 23-08-19	Dwg: GA.013-01-B01	
		Approved: TYNE	Date: 25-09-19		
		Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.			
Rev:	Description:	Sheet 1/1			



**Bulwark Ladders**

# Bulwark Ladders

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**Bulwark ladders are used in conjunction with a gangway for access from the top of the bulwark to deck level.**

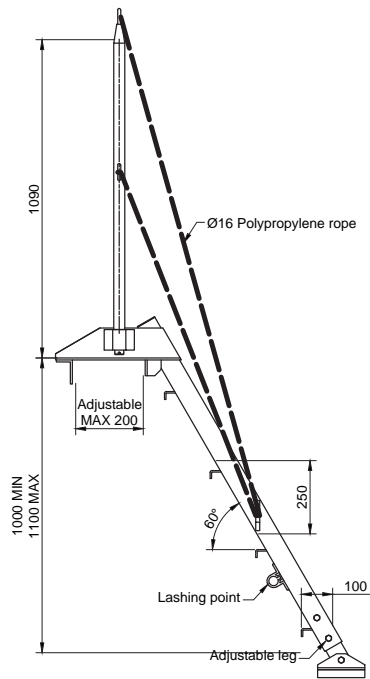
Standard supply:

- Manufactured from Marine Grade Lightweight Aluminium 6082 T6
- Clear width to suit customer/gangway requirement
- Manufactured to ease ship access heights
- Vessel hooks for securing
- Anti-slip surface
- Lifting lugs
- Adjustable height
- Adjustable hook

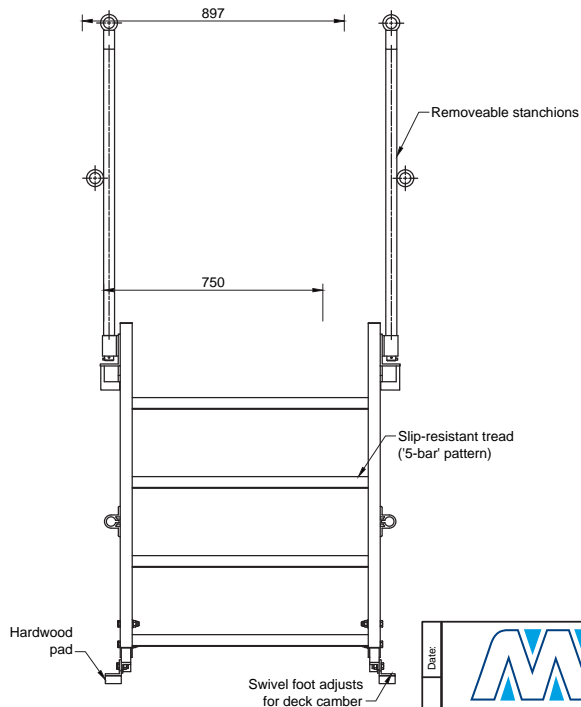
Optional extra's on request:

- Folding bulwark
- Jack up wheels for ease of movement
- Lug & pin connection to gangway for small landing areas

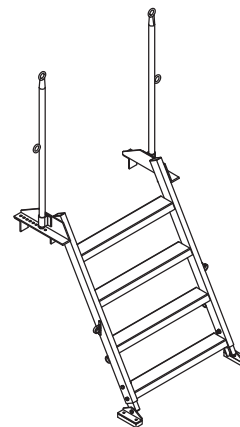
**Side view**



**Front view**


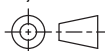


**Isometric view**

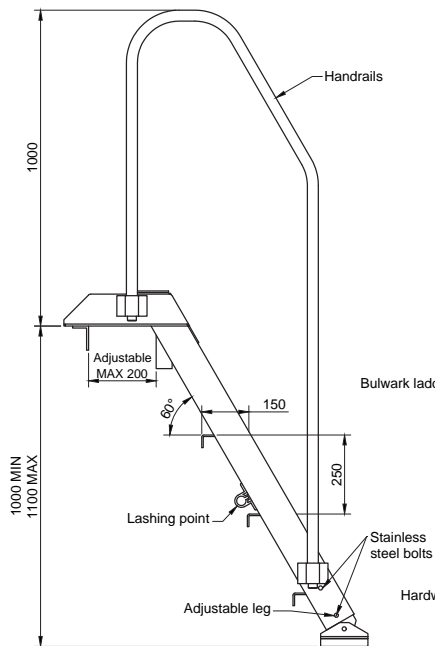


**Harbinger gangway specifications:**

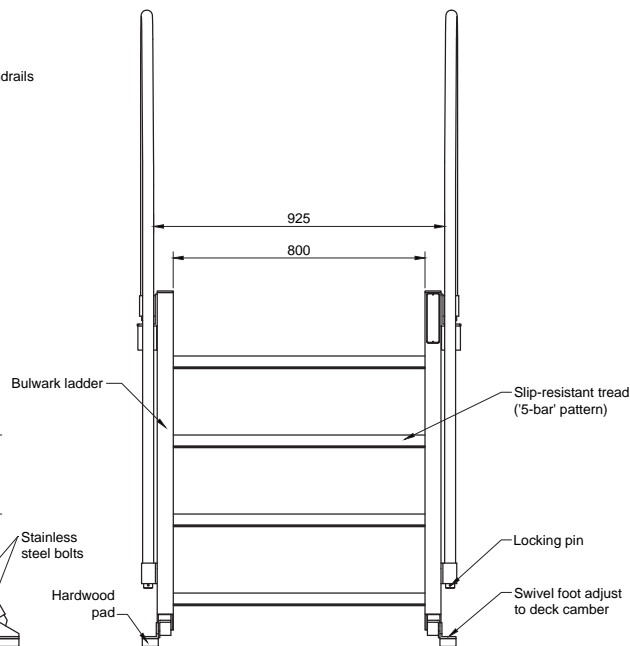
- Weight of Bulwark ladder - 18 Kg
- Bulwark ladder are made from aluminium alloy 6082-T6
- Stanchions are made from aluminium alloy 6082-T6
- Rope is Ø16 mm polypropylene

Date:		<div>Cathodic Protection Division Rietdekkerstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com</div>	Projection:	
			Scale: NTS	
Order number:	Bulwark Ladder Gangways			
Drawn: ESM	Date: 29-04-19		Project:	Sheet 1/1
Checked: RvW	Date: 28-05-19		Dwg: GA.005-02-B01	
Rev.	Approved: PP		Date: 28-05-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.

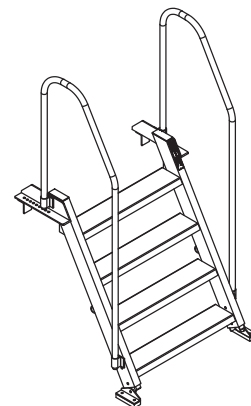
Side view




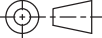
Front view



Isometric view

**Harbinger gangway specifications:**

- Weight of SIS7 Bulwark ladder - 28 Kg
- Bulwark ladder are made from aluminium alloy 6082-T6
- Handrails are made from aluminium alloy 6082-T6

Date:				<div>Cathodic Protection Division Rietdekerstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com</div>	<div>Projection: </div>
	MME GROUP				
Description:	Order number:	SIS7 Bulwark Ladder Gangways			
	Drawn: ESM	Date: 29-04-19	Project:		Sheet 1/1
	Checked: RvW	Date: 28-05-19	Dwg: GA.005-01-B01		
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**Shore Gangways**

# Shore Gangways

**Long range, steep 0-50 degrees working angle aluminium gangways for easy ship-shore access with standard ship hook and jetty roller.**

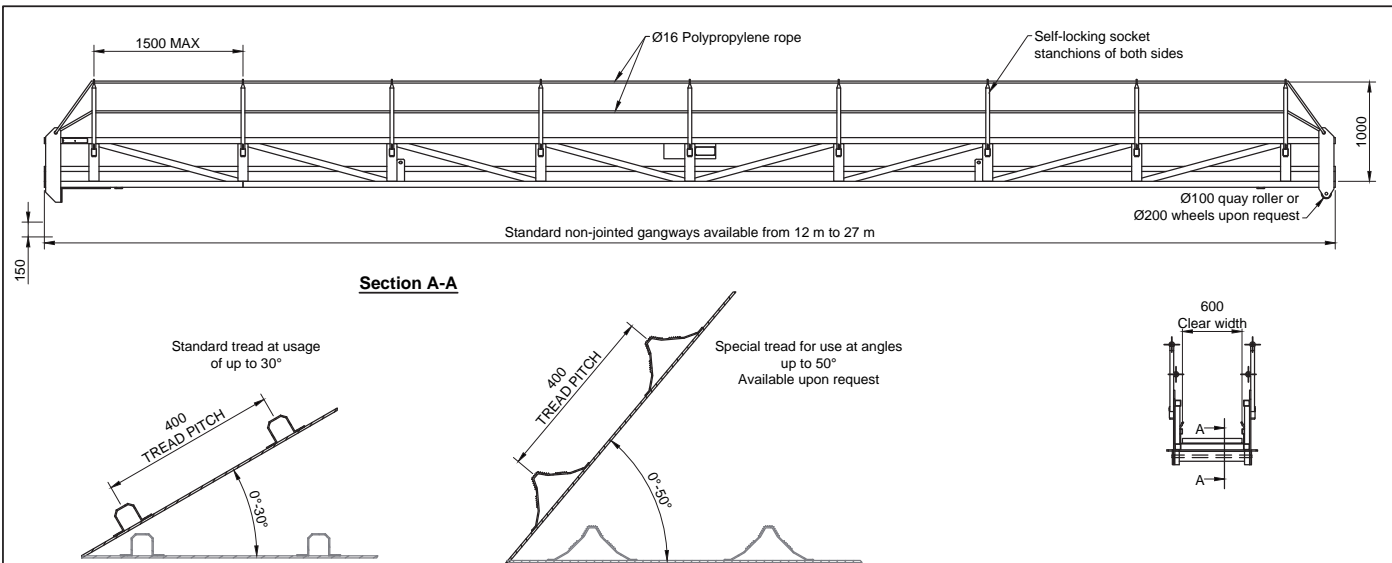
Standard supply:

- Manufactured from Marine Grade Lightweight Aluminium 6082 T6
- Clear width to suit customer/gangway requirement
- Manufactured to ease ship access heights
- Anti-slip surface
- Standard ship hook & quay roller
- Self-locking stanchions and polypropylene rope hand rail & half-height
- Lifting & lashing lugs

Optional extra's on request:

- Safety net
- Lifting sling
- In house test certificate
- 3rd party test certificate
- Removable rigid handrails

Product Specifications	
Length (m)	Weight (Kg)
12	325
13	475
14	550
15	650
16	700
17	750
18	800
19	850
20	900
25	1300
26	1400
27	1550



#### Harbinger gangway specifications:

- Gangways are type approved by DNV-GL to ISO 7061 in accordance with IMO MSC.1/CIRC. 1331
- Gangways are made from aluminium alloy 6082-T6
- Stanchions are made from aluminium alloy 6082-T6
- Pins and axles are made from stainless steel 316
- Rope is Ø16 mm polypropylene

#### PRODUCT SPECIFICATIONS

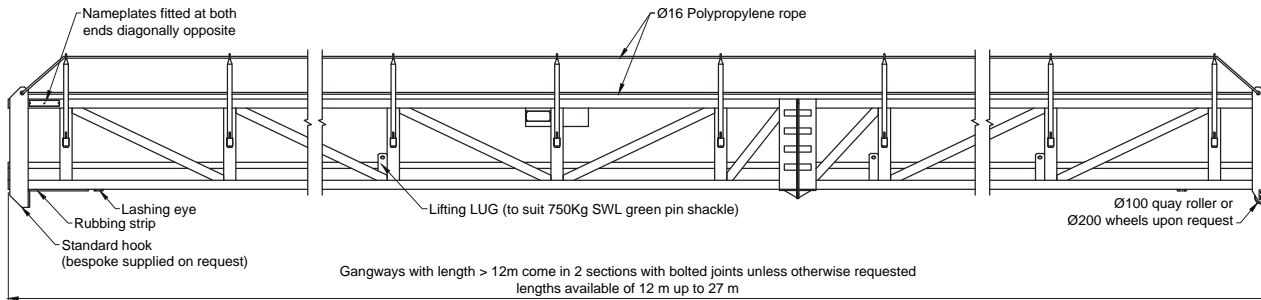
Length (m)	Weight (Kg)	Length (m)	Weight (Kg)
12	325	19	850
13	475	20	900
14	550	25	1300
15	650	25,5	1350
16	700	26	1400
17	750	27	1550
18	800		

#### Optional extra's on request

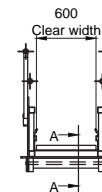
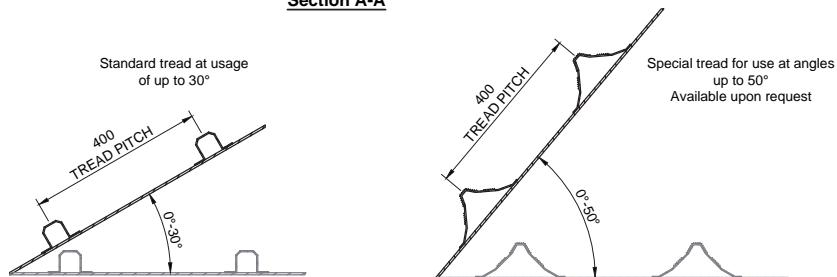
- Safety net
- Lifting sling
- In house test certificate
- 3<sup>rd</sup> party test certificate
- Removable rigid handrails

Date:			Cathodic Protection Division Rietdijkstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com	Projection: 
Order number:	Shore Gangways Standard Non-Jointed Gangways			
Drawn: ESM	Date: 29-04-19	Project:		Sheet 1/1
Checked: RvW	Date: 28-05-19	Dwg: GA.004-01-B01		
Approved: PP	Date: 28-05-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.		





### Section A-A




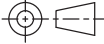
PRODUCT SPECIFICATIONS			
Length (m)	Weight (Kg)	Length (m)	Weight (Kg)
12	325	19	850
13	475	20	900
14	550	25	1300
15	650	25,5	1350
16	700	26	1400
17	750	27	1550
18	800		

### Harbinger gangway specifications:

- Gangways are type approved by DNV-GL to ISO 7061 in accordance with IMO MSC.1/CIRC. 1331
- Gangways are made from aluminium alloy 6082-T6
- Stanchions are made from aluminium alloy 6082-T6
- Pins and axles are made from stainless steel 316
- Rope is Ø16 mm polypropylene

### Optional extra's on request

- Safety net
- Lifting sling
- In house test certificate
- 3<sup>rd</sup> party test certificate
- Removable rigid handrails

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			Order number:		Scale: NTS
Description:		<b>Shore Gangways</b> <b>2 Sections With Bolted Joints</b>			
Drawn: ESM Checked: RvW Approved: PP		Date: 29-04-19 Date: 28-05-19 Date: 28-05-19		Project: Dwg: GA.004-02-B01	
				Sheet 1/1	
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# **Onshore & Offshore Overhead Braced Gangways**

# Onshore & Offshore Overhead Braced Gangways & Bridges

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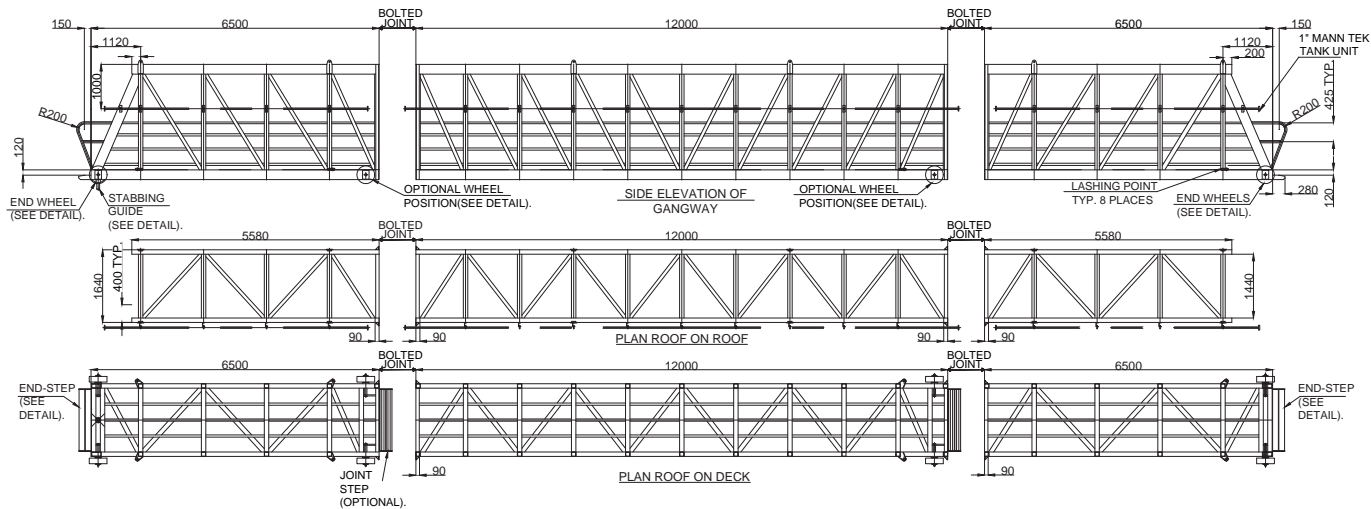
**Overhead braced structure providing complete security between two points. Up to 50m in length, available in customer specified length and width.**

Standard supply:

- Manufactured from Marine Grade Lightweight Aluminium 6082 T6
- Clear width to suit customer/gangway requirement
- Overhead braced structure
- Anti-slip surface for maximum 10 degrees operating angle
- Fixed handrail with half-height
- Quay roller for tidal pontoon movement
- Lifting points for installation

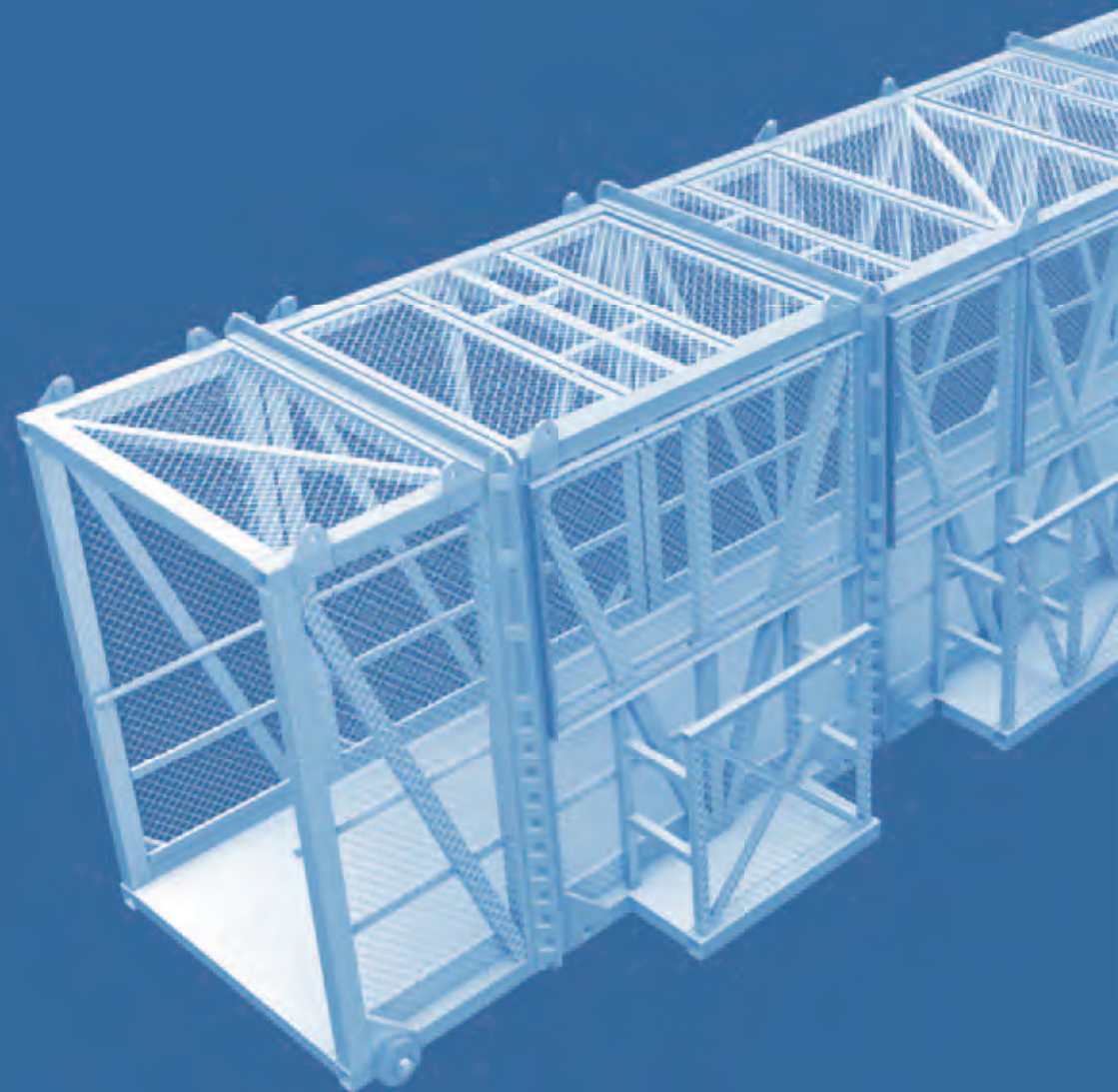
Optional extra's on request:

- Bespoke tower/platform with access steps
- Bearing pads (fixed and moving)
- Customer specific foundation connections
- Lightning, sprinkler system provisions for customer pipework, services, etc.
- Safety gates & RFID detection



Date:	 <p>Cathodic Protection Division Rietdekkerstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com</p>			Projection: 	
				Scale: NTS	
Description:	Order number:		Overhead braced Gangway		
	Drawn: ESM	Date: 19-08-19	Project:	Sheet 1/2	
	Checked: RvW	Date: 23-08-19	Dwg: GA.012-01-B01		
	Approved: TYNE	Date: 25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.		
Rev.					A5





## Modular Gangways

# Modular Gangways

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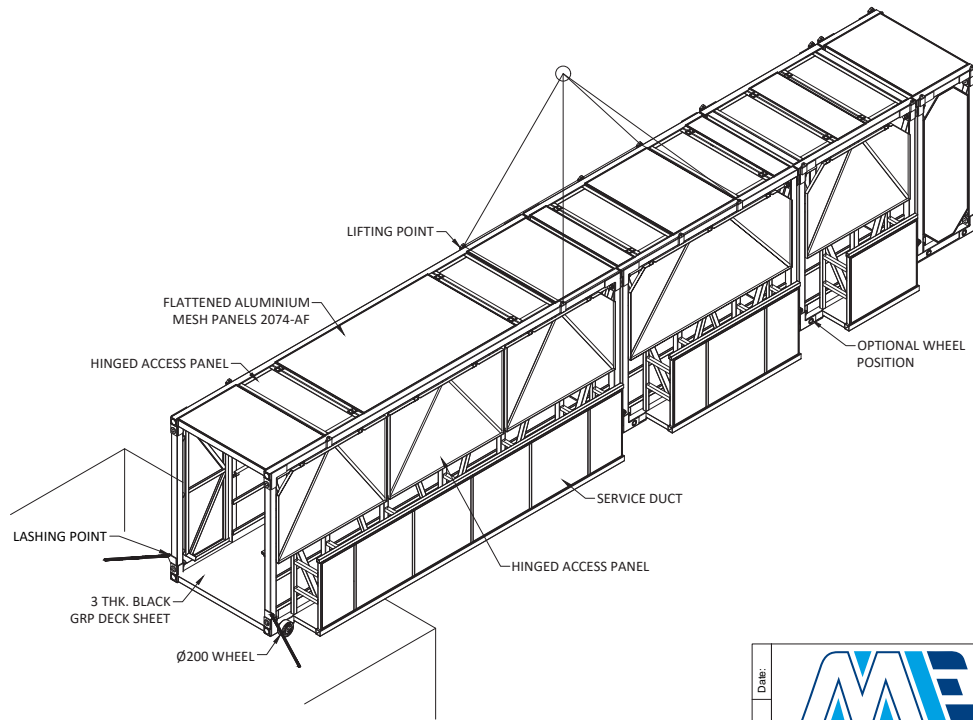
**Custom designed gangways with facility for services support and lighting to bridge customer required length maximum 10 degree working angle. 4 point fixed or multi-bolt flange connection.**

Standard supply:


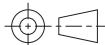
- Manufactured from Marine Grade Lightweight Aluminium 6082 T6
- Clear width to suit customer/gangway requirement
- Optional lengths to suit customer requirement
- 4 Point fixed or multi-bolt flange connection
- Anti-slip surface for maximum 10 degrees operating angle
- Fixed handrail with half-height
- Multi-position wheels
- Underside wear pads for gangway protection
- Lifting points for installation and assembly

Optional extra's on request:

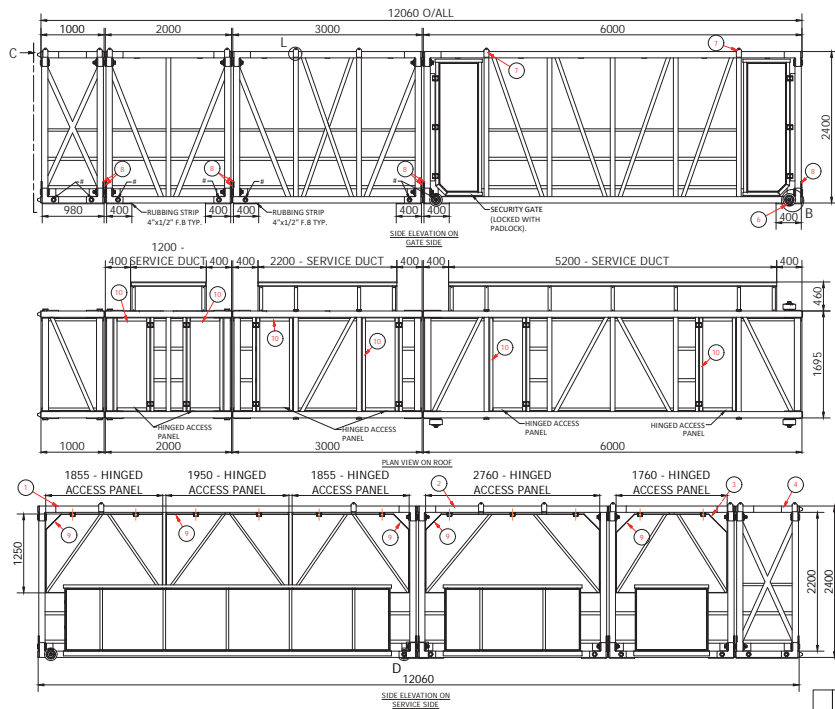
- Provision for external services storage with access panels
- Customer specific foundation connections
- Lightning, sprinkler system provisions for customer pipework, services, etc.
- Safety gates & RFID detection
- Multi-access gates



ISOMETRIC VIEW OF GANGWAY

Date:	 <b>MME GROUP</b>			<div>Cathodic Protection Division Rietdekkerstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com</div>	<div>Projection: </div>
Description:	Order number:		<div>Modular Gangway</div>		
	Drawn: ESM	Date: 19-08-19	Project:		Sheet 1/3
Checked: RvW	Date: 23-08-19	Dwg: GA.007-01-B01			
Rev.	Approved: TYNE	Date: 25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.		





ALL MATERIAL ALUMINIUM 6082-T6 UNLESS NOTED OTHERWISE

DECKPLATE GRADE 5083-0



FLATTENED ALUMINIUM MESH GRADE 2074-AF

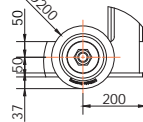
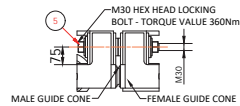
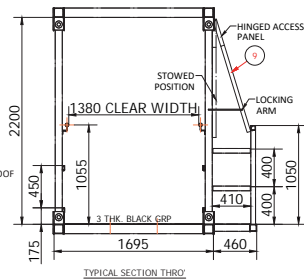
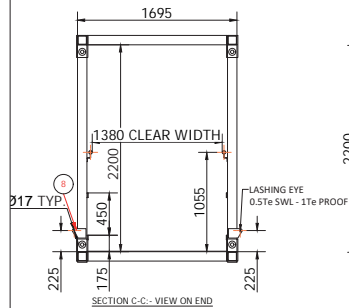
FASTENERS + AXLES STAINLESS STEEL GRADE 316L

WEIGHT: ~ 2365KG

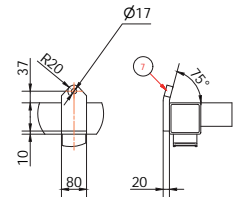
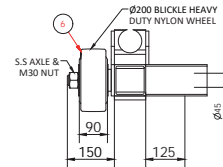
#### MODULAR GANGWAY - PARTS LIST


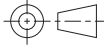
ITEM	QTY	DESCRIPTION	MATERIAL
10	6	HINGED ACCESS PANEL ROOF	ALUMINIUM 6082-T6
9	5	HINGED ACCESS PANEL SIDE	ALUMINIUM 6082-T6
8	16	LASHING EYE 0.5Te SWL	ALUMINIUM 6082-T6
7	16	LIFTING EYE 2Te SWL	ALUMINIUM 6082-T6
6	2	BLICKLE 200 DIA. WHEEL	HEAVY DUTY NYLON
5	12	CONNECTION BOLT M30	ALUMINIUM 6082-T6
4	1	1M GANGWAY SECTION	ALUMINIUM 6082-T6
3	1	2M GANGWAY SECTION	ALUMINIUM 6082-T6
2	1	3M GANGWAY SECTION	ALUMINIUM 6082-T6
1	1	6M GANGWAY SECTION	ALUMINIUM 6082-T6

Date:	 <b>MME GROUP</b>		<b>Cathodic Protection Division</b> Rietdijkstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com		<b>Projection:</b> 
			<b>Scale: NTS</b>		
Order number:		<b>Modular Gangway</b>			
Description:	Drawn: ESM	Date: 19-08-19	Project:		Sheet 2/3
	Checked: RvW	Date: 23-08-19	Dwg: GA.007-01-B01		
Rev.	Approved: TYNE	Date: 25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.		

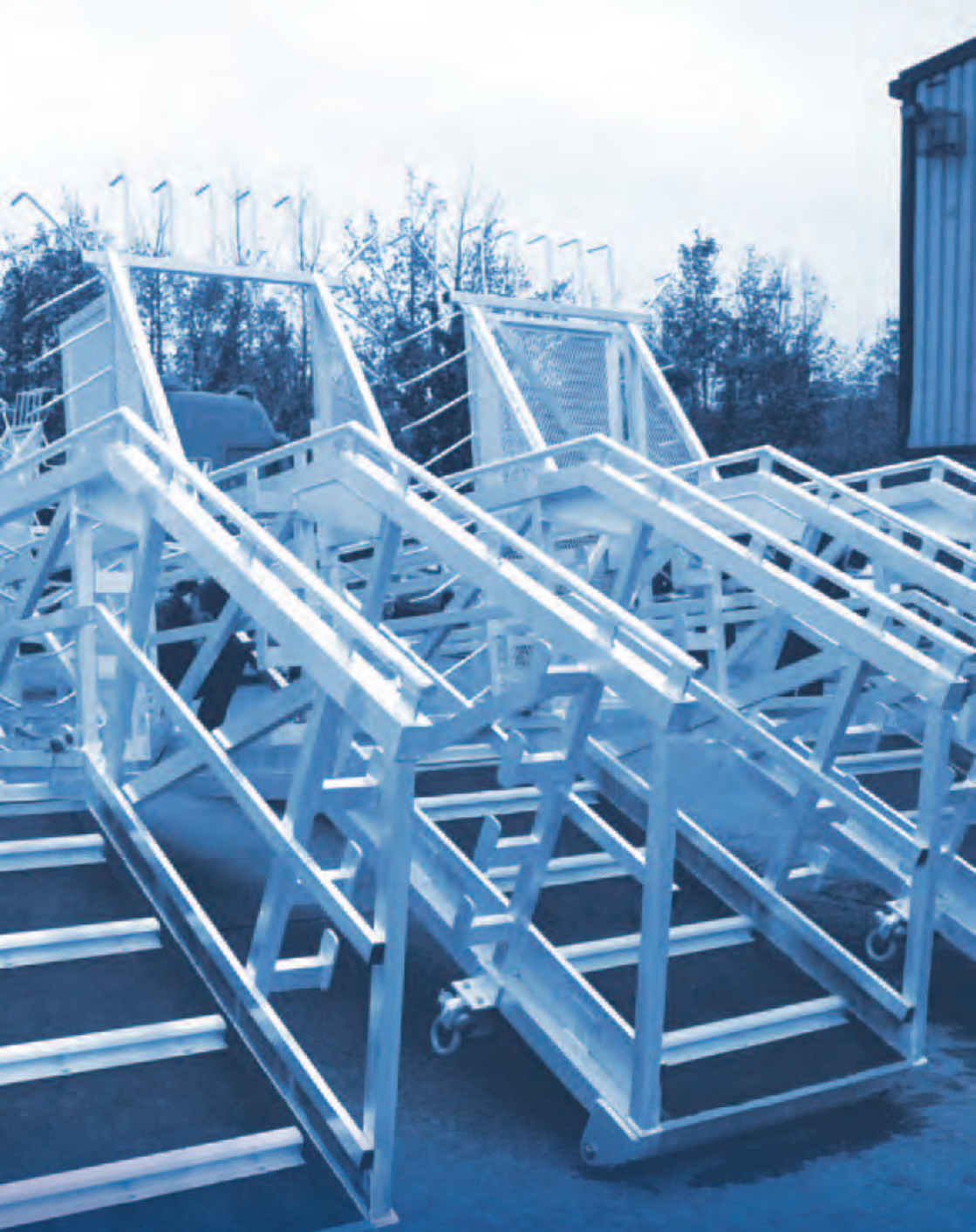


ALTERNATIVE POSITIONS SHOWN BY #



Date:	 <b>MME GROUP</b>	Cathodic Protection Division Rietdijkstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com	Projection:	
			Scale: NTS	
Description:	Order number:	<b>Modular Gangway</b>		
	Drawn: ESM	Date: 19-08-19	Project:	Sheet 3/3
Rev.	Checked: RvW	Date: 23-08-19	Dwg: GA.007-01-B01	A5
	Approved: TYNE	Date: 25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Meelinge Europe.	

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**Naval Brows**

# Naval Brows

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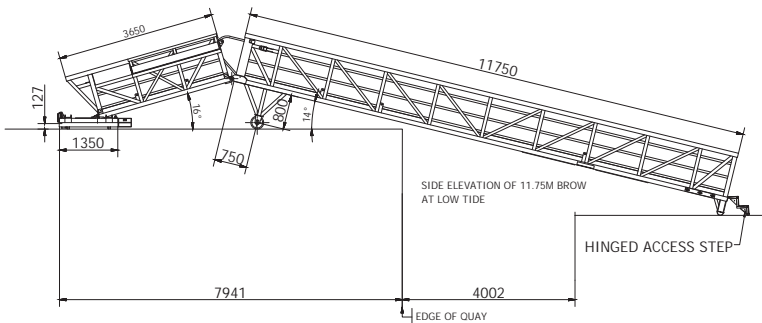
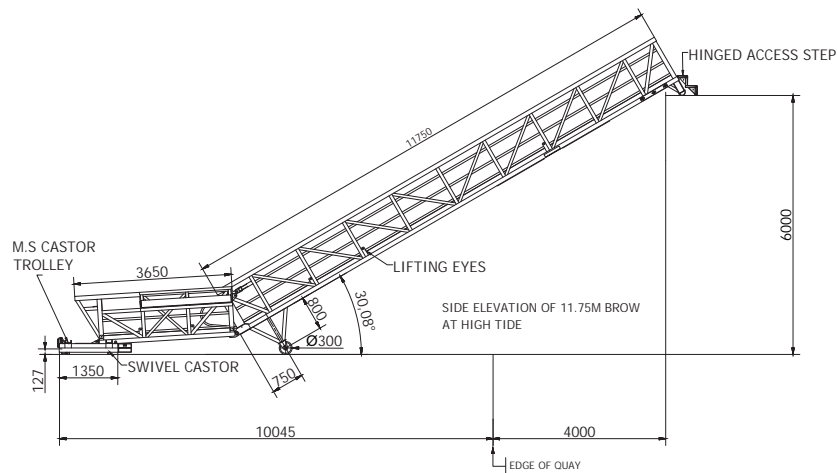
**Lightweight aluminium gangways with cranked/hinge section for access to ships below the quay. 0-50 degrees working angle.**

Standard supply:

- Manufactured from Marine Grade Lightweight Aluminium 6082 T6
- Clear width to suit customer/gangway requirement
- Optional lengths to suit customer requirement
- Anti-slip surface
- Ship hook & quay roller
- Fixed handrail with half-height
- Lifting & lashing lungs

Optional extra's on request:

- Self-levelling tread
- Electric/hydraulic raising & lowering
- Fixed/ adjustable crank options
- Platforms & stairs for vessel access
- Quay roller options to suit site availability (wheels, trolley, bespoke, etc.)
- Rubber fender pads
- Mesh/sheet side panels
- Lighting, sprinkler system provisions for customer pipework, services, etc.
- Safety gates & RFID detection

**Material:**


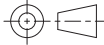
- All aluminium extrusions 6082-T6 (unless noted otherwise)
- All deck plate to be grade 5083-0 (unless noted otherwise)
- All extrusions M.S grade S355 (unless noted otherwise)
- All deck plate to be grade S275 (unless noted otherwise)

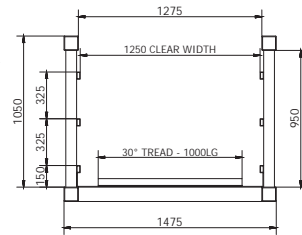
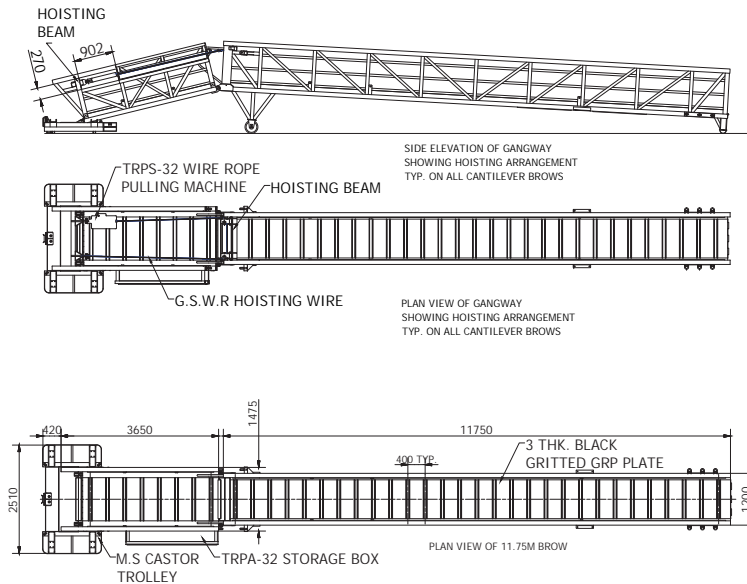
**Finish:**

- Aluminium: washed & degreased
- Deck plate topped with 3mm black grit GRP sheet
- Mild steel: TG4 high-build

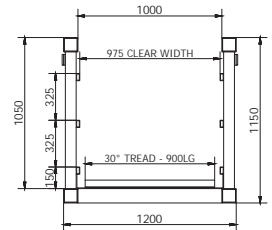
**TG4 paint specification**

- Grit blast SA-2-1/2
- 1 coat of 2 pack epoxy zinc rich primer @ 50um dft
- 1 coat of 2 pack acrylic polyurethane finish @ 50um dft

Date:				Cathodic Protection Division Rietdijkstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com	Projection:  Scale: NTS	
Order number:		Naval Brows Gangway				
Description:	Drawn: ESM	Date: 31-07-19	Project:		Sheet 1/2	
	Checked: RvW	Date: 23-08-19	Dwg: GA.011-01-B01			
Rev.	Approved: TYNE	Date: 25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.			





TYPICAL SECTION OF LOWER GANGWAY



TYPICAL SECTION OF 11.75M BROW

mm

Date:	 <b>MME GROUP</b>			<b>Cathodic Protection Division</b> Rietdijkstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com		<b>Projection:</b> 		
						<b>Scale: NTS</b>		
	Order number:			<b>Naval Brows Gangway</b>				
	Description:	Drawn: ESM		Date: 31-07-19		Project:		Sheet 2/2
Checked: RvW		Date: 23-08-19		Dwg: GA.011-01-B01				
Approved: TYNE		Date: 25-09-19		Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.				
Rev.								A5

# Custom gangway systems

- Telescopic Gangways & Wind Turbine Access
- Self-levelling Stepped Gangways (Cruise Access)
- Pontoon Access Gangways
- Marine Column & Tower Gangways
- Other bespoke gangway systems







# Telecopic Gangways & Wind Turbine Access

# Telescopic Gangways & Wind Turbine Access

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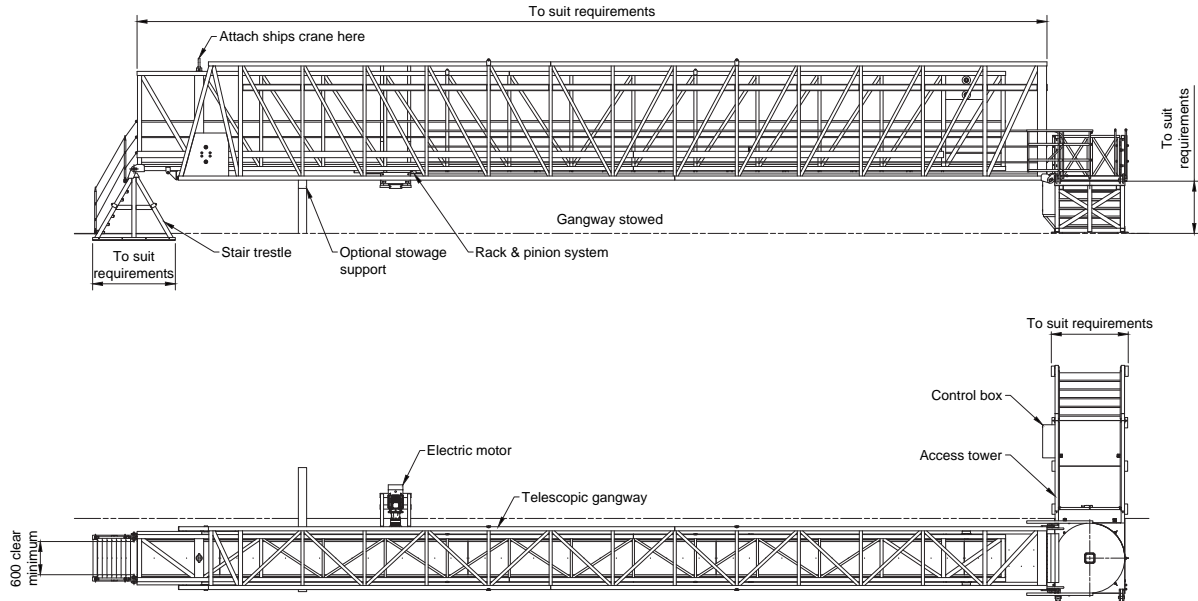
**Aluminium lightweight gangways designed for variable length applications in offshore (wind) industries. 600 mm clear width and 0-50 degree working angle. Steel foundation tower for access from the vessel.**

Standard supply:

- Manufactured from Marine Grade Lightweight Aluminium 6082 T6
- 600mm Clear width
- Optional lengths to suit customer requirement
- Anti-slip surface
- Fixed handrail with half-height
- Steel foundation connection tower for access from vessel
- Lifting points for installation
- Crane deployment connection hook

Optional extra's on request:

- Customer specific foundation connections
- Electric, hydraulic or winch driven options
- Stowage post for vessel storage





- Gangway designed to ST-0358 "Type 4"
- Design load: 600 kg
- Safe working load: 300 kg

#### Angle of use

- Flat anti-slip grip deck: +15° to -15°
- Anti-slip deck & 30° treads: +30° to -30°
- Anti-slip deck & 50° treads: +50° to -50°

Telescopic gangway	Aluminium alloy 6082-T6 (unless noted otherwise)
Trestle	Aluminium alloy 6082-T6 (unless noted otherwise)
Access	Mild steel (unless noted otherwise)
<b>Description</b>	<b>Material</b>

Date:			<b>Cathodic Protection Division</b> Rietdekkerstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com		<b>Projection:</b> 	<b>Scale:</b> NTS
Description:	Order number:	<b>Telescopic &amp; Wind Turbine Access Gangway</b>				
	Drawn: ESM	Date: 31-07-19	Project:		Sheet 1/1	
	Checked: RvW	Date: 23-08-19	Dwg: GA.008-01-B01			
Rev:	Approved: TYNE	Date: 25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.			45



**Self-levelling Stepped  
Gangways (cruise access)**

# Self-levelling Stepped Gangways (Cruise Access)

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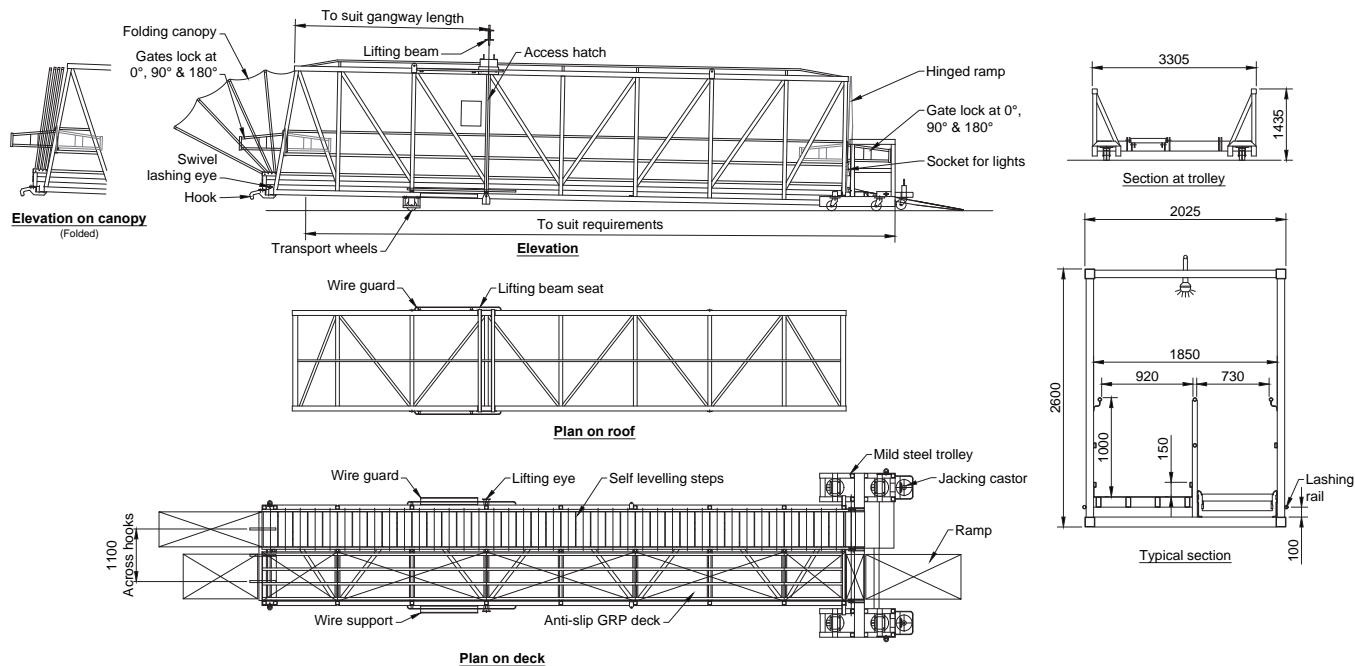
**Custom design, aluminium gangway. 0-50 degrees working angle with length and width to suit customer requirements. Self-levelling tread steps to maintain horizontal level.**

Standard supply:

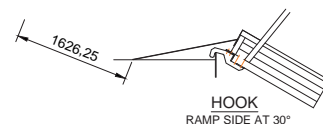
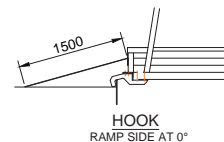
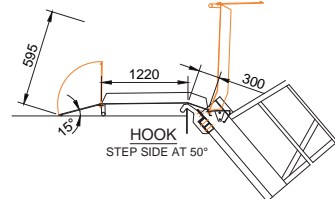
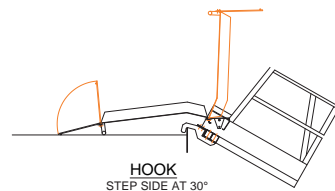
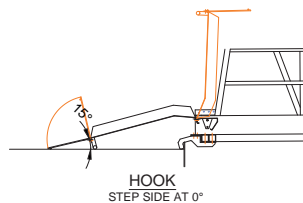
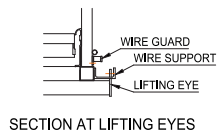
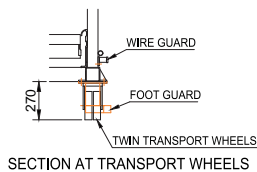
- Manufactured from Marine Grade Lightweight Aluminium 6082 T6
- Clear width to fit customer requirement
- Length to suit customer requirement
- Self-levelling tread step to maintain horizontal level
- Anti-slip surface
- Mild steel quay trolley for access & ship hook
- Fixed handrails with half-height
- Lifting lugs


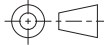
Optional extra's on request:

- Disabled access ramps
- Ship hook connection to suit customer vessel
- Weather protection cover along entire length of gangway
- Customer specific printed weather protection
- Turntable top platform for vessel connection and minimal quay landing restraints
- Inclinemeters
- Platform towers for height restricted applications
- Automatic – hydraulic deployed systems



Date:				<b>Cathodic Protection Division</b> Rietdekkenstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com	<b>Projection:</b>  <b>Scale:</b> NTS
	Order number:		<b>Self-Levelling Stepped Gangway Cruise Access</b>		
Description:	Drawn: ESM	Date: 31-07-19	Project:		Sheet 1/2
	Checked: RvW	Date: 23-08-19	Dwg: GA.009-01-B01		
	Approved: TYNE	Date: 25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Material Metingen Europe.		



Date:	 <b>MME GROUP</b>	Cathodic Protection Division Riendekerstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com	Projection:	
			Scale: NTS	
Description:	Order number:	<b>Self-Levelling Stepped Gangway Cruise Access</b>		
	Drawn: ESM	Date: 31-07-19	Project:	Sheet 2/2
	Checked: RvW	Date: 23-08-19	Dwg: GA.009-01-B01	
	Approved: TYNE	Date: 25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.	





**Pontoon Access Gangways**



# Pontoon Access Gangways

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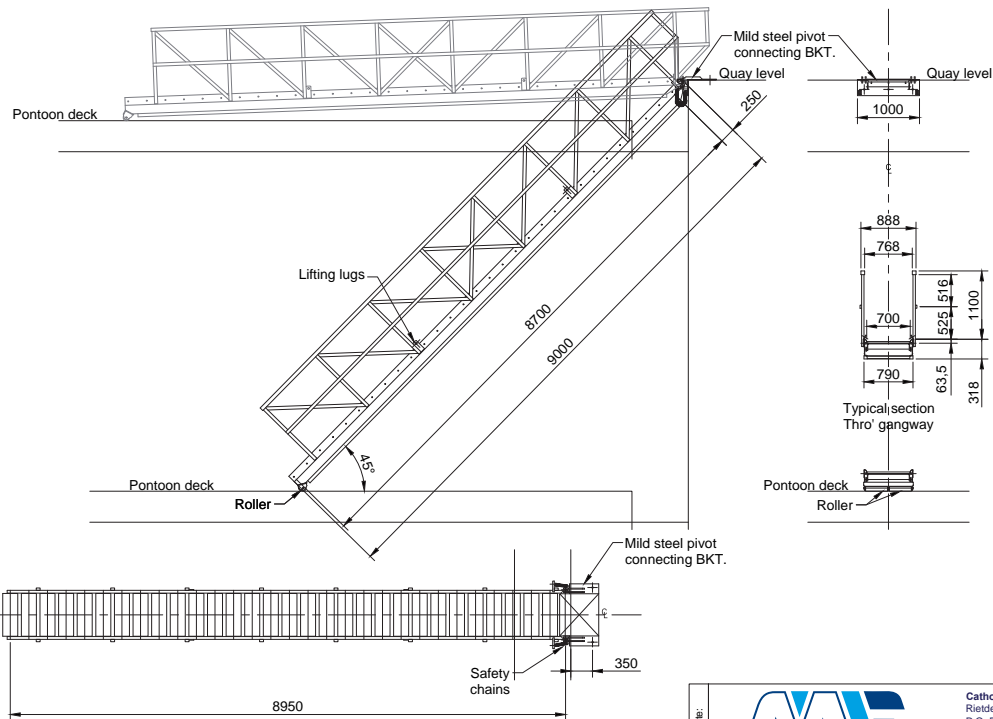
**Lightweight aluminium walkway for access to floating pontoons. 0-50 degrees working angle options. Quay roller for variable tide heights.**

Standard supply:

- Manufactured from Marine Grade Lightweight Aluminium 6082 T6
- Clear width to fit customer/gangway requirement
- Anti-slip surface
- Fixed handrail with half-height
- Fixed quay connection
- Quay roller for tidal pontoon movement
- Lifting points for installation

Optional extra's on request:

- Bespoke tower/platform with access steps at fixed end
- Self-levelling treads
- Trolley replacing quay roller
- Disabled access ramps
- Slewing beam
- Lighting, sprinkler system provisions for customer pipework, services, etc.
- Cranked or hinged



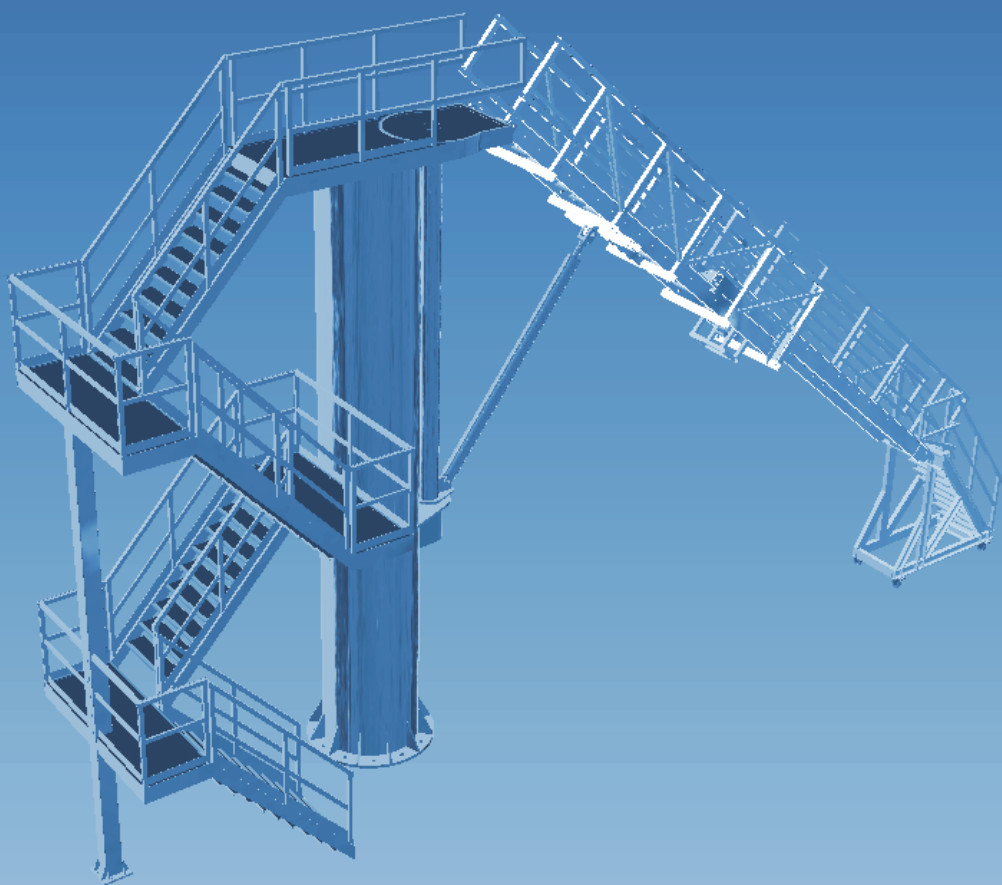
#### Material

- Aluminium alloy 6082-T6 (Unless noted otherwise).

#### Finish

- Alu alloy: Self-color, cleaned & degreased.
- Mild steel: Shotblast to SA2.5, one coat zinc spray & one coat sealer paint (light gray)

Date:			<b>Cathodic Protection Division</b> Rietdekkerstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com		<b>Projection:</b> 
					<b>Scale:</b> NTS
Description:	Order number:		<b>Pontoon Access Gangway</b>		
	Drawn: ESM	Date: 31-07-19	Project:		Sheet 1/1
	Checked: RvW	Date: 23-08-19	Dwg: GA.006-01-B01		
Rev.	Approved: TYNE	Date: 25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.		



# Marine Column & Tower Gangways

# Marine Column & Tower Gangways

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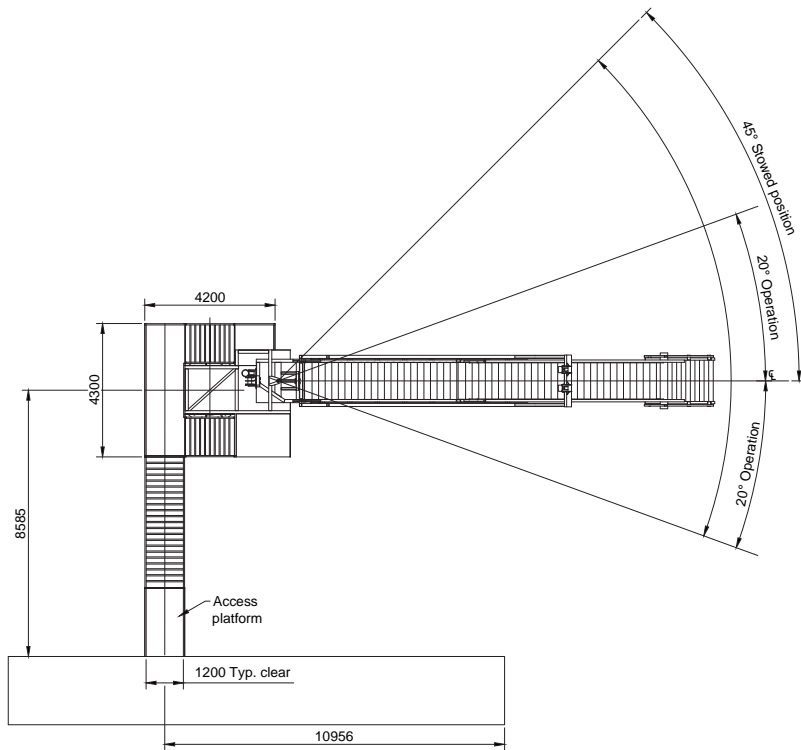
**Column and Tower gangways are used when the ship height and range of tidal variation are too great for other gangway types. We engineer the entire system based on the specific situation in which it will be used.**

Standard supply:

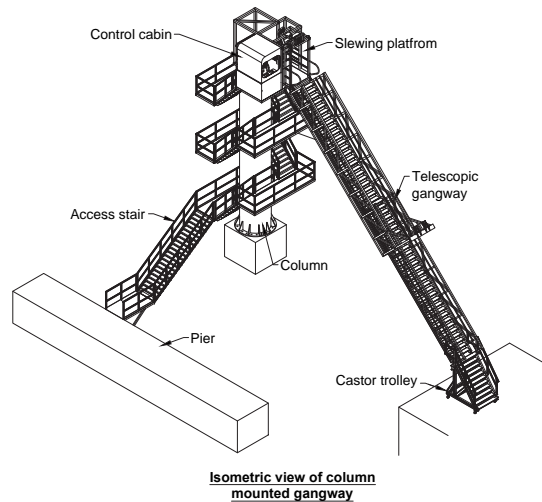
- Typically manufactured from Marine Grade Lightweight Aluminium 6082 T6
- Telescopic self-levelling gangway
- Anti-slip surface
- Fixed handrail with half-height
- Bulwark ladder for access and egress
- 180° angular rotation
- Lifting points for installation or deployment


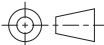
Optional extra's on request:

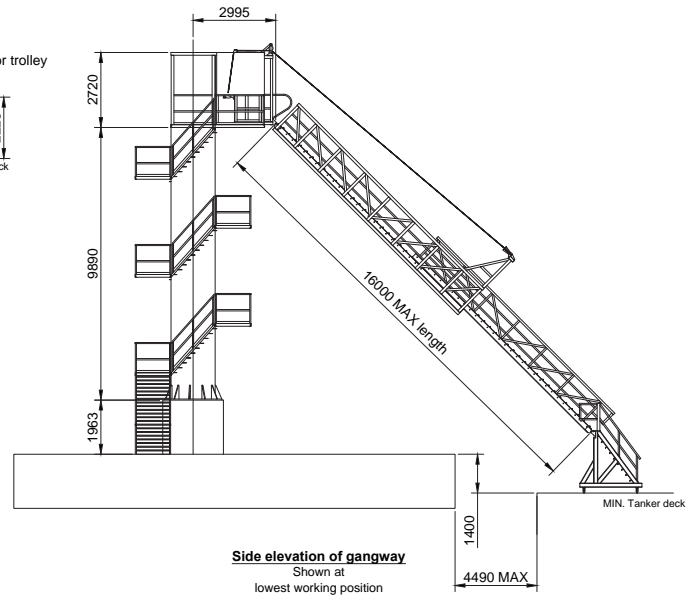
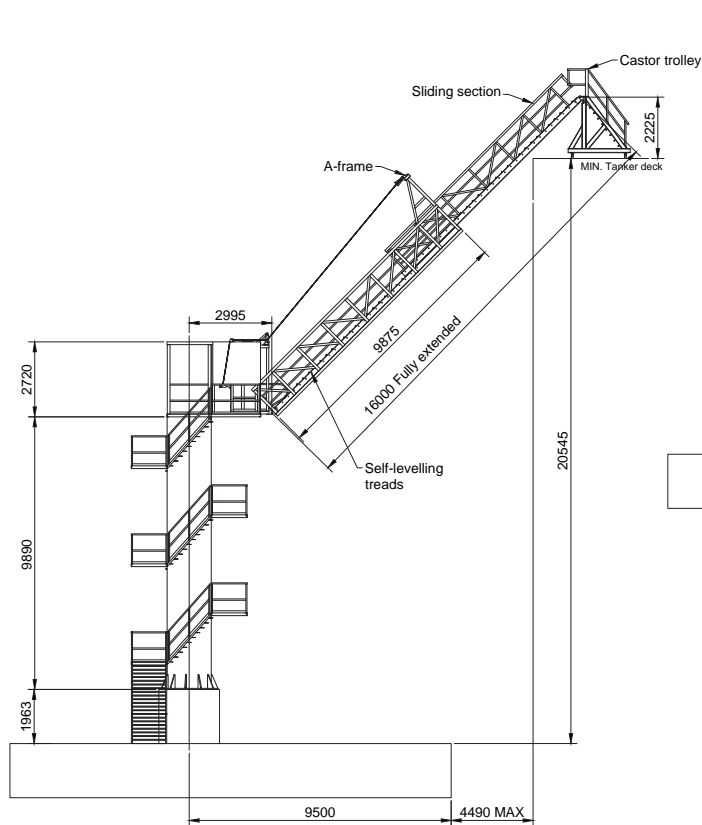
- Bespoke tower/platform/pedestal with access options to suit customer application
- Customer specific foundation connections
- Hydraulic, electric or crane control options





**Plan view of tower  
gangway**  
Operating angles as shown



Gangway		Aluminium alloy 6082-T6 (unless noted otherwise)	
Column & Access stair		Mild steel S355 (unless noted otherwise)	
<b>Description</b>		<b>Material</b>	
Date:			Cathodic Protection Division Rietdekkerstraat 16 P.O. Box 4222 2980 GE Ridderkerk Netherlands Tel: +31 (0)180 48 28 28 E-mail: sales@mme.nl www.mme-group.com
			Projection:  Scale: NTS
Order number:		<b>Self-Levelling Column Mounted Gangway</b>	
Description:	Drawn: ESM	Date: 31-07-19	Project:
	Checked: RvW	Date: 23-08-19	Dwg: GA.010-01-B01
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			Sheet 1/2



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	Order number:			<b>Self-Levelling Column Mounted Gangway</b>					Scale: NTS	
Description:	Drawn:	ESM	Date:	31-07-19	Project:	GA.010-01-B01			Sheet 2/2	
	Checked:	RvW	Date:	23-08-19	Dwg:					
Rev:	Approved: TYNE		Date:	25-09-19	Copyright MME. No part of this drawing may be copied, disclosed, or made public, in any form, without prior written consent of Materiaal Metingen Europe.					25



# Bespoke Products

# Other Bespoke products

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**Bespoke aluminium marine access equipment to your designs or concepts. Our engineers can create a custom design for any situation based on your requirements.**

**Contact us for more information.**

Projects include:

- Pilot platforms
- Painting stages
- Painting cages
- Counterbalanced paint cradles
- Paint rafts
- Rope pilot ladders
- Mediterranean ladders
- Rung ladders
- Pilot ladders
- Material lifting baskets





**Accessories & Spare Parts**

# Accessoires & spare parts

Every vessel is unique in how and where it operates. Marine boarding equipment is often used in the roughest of conditions. We provide all accessories and spare parts you might need to tailor your boarding equipment to specific operational requirements and replace parts that got damaged.



- **Safety nets:** Safety nets need to be installed where there is a fall risk between the ship & quayside. Safety nets are available in various lengths & widths. Manufactured from machine made knotless 100mm mesh netting compliant with BS EN 1263-1

- **Side nets:** Side nets need to be installed where there is a fall risk from the means of embarkation and disembarkation. Side nets are manufactured from machine made knotless 100mm mesh netting compliant with BS EN 1263-1.



- **Poly rope:** Replacement polypropylene rope.

- **4-Leg lifting slings:** Standard lifting slings for positioning of gangways



# More accessories



- **Quay rollers:** Aluminum rollers that are installed under the dock end of the gangway to allow it to move on the dock without damaging it

- **Stanchions:** Replacement handrail stanchions



- **Folding handrails:** Reduce the overall storage space of the gangway when not in use. Folding onto the gangway when not in use and with fixed locking when the gangway is deployed. Manufactured from marine grade aluminium bar.

- **Fixed handrails:** Replacing the standard rope & stanchion configuration, rigid handrails are fixed in position on the gangway. Manufactured from marine grade aluminium bar



# More accessories



- **Turntable top platform:** Allows the gangway to rotate from the vessel, reducing floor space or landing areas where there is restricted quay access. The Top Platforms can also extend out from the vessel reducing stowage.

- **Self-stowing gear:** Allows a gangway to be retracted and stowed in a minimal window for limited vessel storage space requirements



- **Winches:** Accommodation Ladder Winches (500W, 850W, 1000W, 1500W) & Wormgear Winches (750W)

- **Load tests & certification:** Inspection, class certifications & (third party witnessed) load tests









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144 Intracoastal Dr.  
Houma, LA 70363  
Toll Free: 866-218-0013  
Fax: 985-346-0244

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