

EC DECLARATION OF CONFORMITY (DNV)

Certificate No. : 231293

Manufacturer: Hendrik Veder Group UK Ltd. Unit 6/7, Woodside Road Bridge of Don, Aberdeen AB23 8EF UNITED KINGDOM	Orderno.: 1723162418	Client: Blue Manta International Ltd Pitmedden Road Industrial Estate Dyce 5 Kirkton Avenue Aberdeen AB21 0BF	Customer reference / PO Number: 44131
			Declaration date: 04-12-2023
DNVGL Type Approval Certificate TAS000029C		Reference standard DNV-ST-E271:2023	
Working load limit 13.300 t	Lifting Angle 0° to 45 °	Length of legs / fore runner (metric): 4.600 m /	Diameter of sling legs / fore runner: 28.00 mm /
Proofload applied (kN) 0		Length of legs (imperial, if applicable): 0.00 ft	Test Report No.
This certificate meets the requirements of the Machinery Directive 2006/42/EC Annex II 1.A			
Customer ID (Registration Mark) BM-HH-2004/2		Hendrik Veder Group ID No.	Class ID (if applicable)
Description of the sling: Steel wire rope sling 4-leg			Doc Rev No. (if more than 1)
Description of components (assembly secured shackles on seperate document) Including harmonised standard, material grade and (if applicable) construction of wire. The National Standard and any Technical specifications used.			
Description:	Supplier/manufacturer:	Identification mark:	Certificate Number:
William Hackett master link quad assembly, type HA36QA OS+, WLL 26t 6x36WS/IWRC - 28 mm - Galvanized - RHOL - 1960 N/mm2 - lubricated - 547 kN - 1000m Aluminum ferrule, 30 mm Thimbles 28MM	William Hackett Ltd BANSAL WIRE INDUSTRIES LTD Sahm Splice Sahm Splice	23H 20002190 13070-156416 13094-6814	WCC23 0268 A2306-29/01 65847 67346
I declare that the above item(s) described above complies with the essential safety requirements of the European Machinery Directive			
The sling also conforms to the following standard(s): EN13414-1			
Remarks:			
Date of Manufacture: 04-12-2023	Name of person signing the Declaration on behalf of manufacturer Hendrik Veder Group UK Ltd BARRY MACDONALD RIGGING SUPERVISOR 		Name of person authorised to compile the Technical File on behalf of Hendrik Veder Group UK Ltd STEWART GROVES UK OPERATIONS MANAGER 
Place: Aberdeen			
QF ECDEC DNV 01			

REPORT OF THOROUGH EXAMINATION FOR NEW SUPPLY ITEM (AND CERTIFICATE OF TEST IF APPLICABLE)

The Lifting Operations and Lifting Equipment Regulations SI2307:1998.

Client	: Blue Manta International Ltd
Customer Reference / PO number	: 44131
HVG Sales Order No.	: 1723162418
Inspection Report Number	: 231293
Date of Report	: 04-12-2023
Item Description	: Crosby bow shackle, G-2130, with bolt, nut and cotter pin WLL 9.5t
Quantity	: 4
Manufacturer	: Crosby
Reference Standard	: EN 13889/ Type IVB Class 3, Grade A/ASME B30.26
Hendrik Veder Group ID no.	
Date of Examination	: 04-12-2023
First Examination (Yes/No)	: Yes
Shackle ID (Registration Mark)	: BM-HH-2004/E-H
Test Certificate Number	: CC7-2023100400371
Manufacturer Batch No.	: 6ZD-1ZF
Proofload Applied (if applicable)	: 0.00 kN
Date of Last Examination	: N/A
Working Load Limit	: 9.50 t
Date of Next Thorough Examination	: 04-06-2024
Next Test Date	: N/A
Particulars of any Defects or 'None'	: NONE
Particulars of Defects which are a Danger to persons or 'None'	: NONE
Date by Which Defects are to be Repaired	: N/A
Particulars of any Repair, alterations to remedy Defect or 'None'	: NONE
Particulars of Any Observations	: N/A
Company Appointed Examiner	: Barry MacDonald

I hereby certify on the above stated date the item(s) described above were Thoroughly Examined, and as far as reasonably practicable by this type of termination, considered to be safe to operate unless stipulated otherwise in 'Particulars of Defects'

Signature of the person who carried out the examination
BARRY MACDONALD
RIGGING SUPERVISOR



Signature on behalf of author for Hendrik Veder Group UK Ltd
STEWART GROVES
UK OPERATIONS MANAGER



The name and address of the employer for whom the thorough examination was made:

Blue Manta International Ltd
Pitmedden Road Industrial Estate
Dyce
5 Kirkton Avenue
Aberdeen
AB21 0BF
UNITED KINGDOM

The address of the premises at which the thorough examination was made:

Hendrik Veder Group UK Ltd.
Unit 6/7, Woodside Road
Bridge of Don, Aberdeen
AB23 8EF
UNITED KINGDOM

Phone: 01224894949
Website: www.hendrikvedergroup.com



BANSAL ARADHYA STEEL PVT. LTD.

(Formerly Known as Aradhya Steel Pvt. Ltd.)

Regd. Office : 40/1A, 5th Floor, Basappa Complex, Lavelle Road, Bangalore-560001 IN

Works : Sy. 154, Halavarthy, Anagodu, Davangere -577 556.

CIN : U00361KA1989PTC009761 Email : afm@aradhya.com



Date of Test : 24.07.2023

Invoice No. : EX23Y-00277

Date : 28.07.2023

T. C. No. 3086

INSPECTION CERTIFICATE

(works' 3.1B material certificate including chemical analysis + ABL test results)

Customer

Customer Order Ref.

Work Order No

Reel Number

Manufacturer

: HENDRIK VEDER GROUP UK LTD

: 1723220280

: A2306-29

: A2306-29/01

: M/S BANSAL ARADHYA STEEL PVT. LIMITED

Date : 17.05.2023

Date : 08.06.2023

SPECIFICATION

Applied Standard

Nominal Diameter of Rope

Construction

Strand Construction

Tensile Grade of Steel Wire Rope

Wire Finish

Type of Core

Type of Lay & Direction

Length of Rope

Lubrication

Minimum Breaking Load

Pre Stretching

: EN 12385-4:2008

: 28 mm

: 6X36WS

: 14-7+7-7-1

: 1960 N/mm²

: Galvanised, Class B

: IWRC

: RHOL

: 1 x 1000 Mtr,

: A2 (Petroleum Lube)

: 547 kN

: N/A

, Preformed

20002190

RESULTS OF TEST & EXAMINATION

Diameter off Tension

Lay Length off Tension

Actual Breaking Load

: 28.35 mm

: 186 mm

: 568.6 kN

INDIVIDUAL WIRE TESTS

Sl.no.	Wire dia. (mm)	Tensile strength N/mm ² (avg)	Bend (avg)	Torsion (avg)	Mass of Zinc (avg)	gm/m ²
1	1.79	2089	18	38	112	
2	1.34	2074	19	39	103	
3	1.28	2056	19	39	99	
4	0.98	2021	21	41	84	
5	1.56	2022	20	40	116	

CHEMICAL ANALYSIS OF WIRE ROD

Sl.no.	Heat No.	Wire dia. (mm)	Carbon C %	Manganese Mn %	Silicon Si %	Sulphur S %	Phosphorus P %
1	B3064775	1.79	0.81	0.53	0.24	0.009	0.009
2	B9120491	1.34	0.83	0.54	0.26	0.005	0.013
3	B3064249	1.28	0.81	0.54	0.25	0.010	0.012
4	B3061011	0.98	0.82	0.55	0.26	0.006	0.007
5	B3061011	1.56	0.82	0.55	0.26	0.006	0.007

This is to Certify that the above tests have been carried out in accordance with the relevant Specifications / Order.

Authorized Signatory (QA)

Sr. Manager (QA)

Bansal Aradhya Steel Pvt. Ltd.



Certified by
TUV NORD for ISO 9001 2015



Certified by ROHS for
ISO 14001 & ISO 45001



SAHM SPLICE

Unit 1, Lincoln Way, Sherburn-in-Elmet
North Yorkshire, LS25 6PJ England

Tel: (44) 01977 680680
email: mail@sahm-splice.co.uk
VAT No. 698 2278 77
EORI No. GB 698 2278 77 000

Page 1

Delivery Note / C of C

Sahm Splice Galvanised Thimbles in accordance with BS EN 13411-1:2002
Sahm Splice HD Wire Rope Grips are in accordance with BS EN 13411-5
Sahm Splice Commercial Wire Rope Grips are supplied to DIN 741
Sahm Splice ZEN [Long Ferrules], X-Line Ferrules and
Flemish Eye Sleeves conform to BS EN 13411-3

HENDRIK VEDER GROUP UK LIMITED
UNITS 6 & 7
WOODSIDE ROAD
BRIDGE OF DON
ABERDEEN
AB23 8EF

No.	67346
Date	20/09/2023
Order No.	1723220866
Account Ref.	WIR2H

DELIVERY NOTE / CERTIFICATE OF CONFORMITY

Despatched	Part No	Material Ref	Product Description	Remaining
300.0000	770130	13184-202307	THIMBLE: 1/2" (12/13MM) BS EN 13411-1	0.0000
400.0000	770160	13110-202303	THIMBLE: 5/8" (16MM) BS EN 13411-1	0.0000
300.0000	770200	13184-202307	THIMBLE: 3/4" (19/20MM) BS EN 13411-1	0.0000
300.0000	770220	13184-202307	THIMBLE: 7/8" (22MM) BS EN 13411-1	0.0000
60.0000	770280	13094-6814	THIMBLE: 1-1/8" (28MM) BS EN 13411-1	0.0000
90.0000	770320	12967-202208	THIMBLE: 1-1/4" (32MM) BS EN 13411-1	0.0000
60.0000	770360	13229-161352	THIMBLE: 1-3/8" (35/36MM) BS EN 13411-1	0.0000
32.0000	770410	13184-202307	THIMBLE: 1-5/8" (41MM) BS EN 13411-1	0.0000
12.0000	770520	12967-202208	THIMBLE: 2" (52MM) BS EN 13411-1	0.0000

Carrier CAMPEYS

Authorised Representative

K. Madden



SAHM SPLICE UK

Celebrating 25 years service

25 years



Full Member



Cert No: 10006551

Please find full instructions for applicable products online at: www.sahm-splice.co.uk



SAHM SPLICE

Unit 1, Lincoln Way, Sherburn-in-Elmet
North Yorkshire, LS25 6PJ England

Tel: (44) 01977 680680
email: mail@sahm-splice.co.uk
VAT No. 698 2278 77
EORI No. GB 698 2278 77 000

Page 1

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HENDRIK VEDER GROUP UK LIMITED
UNITS 6 & 7
WOODSIDE ROAD
BRIDGE OF DON
ABERDEEN
AB23 8EF

No.	65847
Date	04/01/2023
Order No.	20680
Account Ref.	WIR2H

DELIVERY NOTE / CERTIFICATE OF CONFORMITY

Despatched	Part No	Material Ref	Product Description	Remaining
✓ 200.0000	700260	13024-155186	FERRULE: 26 ZEN	0.0000
✓ 200.0000	700280	13024-155186	FERRULE: 28 ZEN	0.0000
✓ 100.0000	700300	13070-156416	FERRULE: 30 ZEN	0.0000
✓ 100.0000	700340	13024-154921	FERRULE: 34 ZEN	0.0000
✓ 50.0000	700380	12941-153240	FERRULE: 38 ZEN	0.0000
✓ 20.0000	700400	12919-152639	FERRULE: 40 ZEN	0.0000
✓ 300.0000	770260	12967-202208	THIMBLE 1" (26MM) BS EN 13411-1	0.0000

Carrier

GEORGE WALKER

Authorised
Representative

George Walker



Cert No. 10006551



**McKinnon
Chain**

Q62618

McKinnon Chain South Africa Pty Ltd
Registration Number: 2021/809316/07
Vereeniging South Africa
PO Box 61721 Marshalltown
Gauteng, 2107, South Africa
Tel: +27 16 428-6000
Fax: +27 16 428-1089/1212/1420
E-mail: chainsales@mckinnonchain.co.za
Website: www.mckinnonchain.co.za

Test Certificate for Oblong Master Links/Intermediate Links/Sub-assemblies according to EN 10204 2.2 & ISO 10474 2.2										
Declaration of conformity according to Directive 2006/42/EC, Annex II 1. B										
								Certificate number WCC23 0268		
Supplied To:		William Hackett Lifting Products Limited								
Customer Order No.:		603515								
McKinnon Order No.:		503810								
Order date:		30 August 2023								
Dispatch date:		31 August 2023								
Commodity No.:		OSA360DNV								
Product Description:		HA-36QA 8 OS+ Oblong Sub-Assembly to DNV 2.7-1 - Orange Powder Coated								
Total Quantity:		360 Each								
Batch number:		23H								
Quantity per batch:		360								
Date of manufacture:		August 2023								
Date tested:		August 2023								
Markings:		HA-36QA 8 OS+ & Batch Number								
Intended for:		Lifting slings								
Mechanical properties:		Metric:				Imperial:				
Working Load Limit:		26 tonne at 45° to the vertical				57319 lbs at 45° to the vertical				
Proof Force Minimum:		638 kN Proof Force: ≥ 638 kN				143428 lbs Proof Force: ≥ 143428 lbs				
Break Force Minimum:		1275 kN Break Force Actual: ≥ 1275 kN				286630 lbs Break Force Actual: ≥ 286630 lbs				
Safety Factor:		5 : 1				5 : 1				
Typical Hardness:		34-36 HRC								
Charpy V-notch Impact Value:		≥42 Joule at -40°C				≥31 ft-lbs at -40°F				
Chemical analysis of steel:										
		C	Si	Mn	P	S	Ni	Cr	Mo	Al
Specification	Min	0.20	0.15	1.10	0	0	0.90	0.40	0.28	0.025
	Max	0.25	0.25	1.30	0.020	0.020	1.15	0.60	0.32	0.080
Notes:										
100% of components are proof tested in accordance with EN1677-4 and in addition the products are also 100% MPI tested.										
100% of DNV components are then heat treated post proof testing and MPI to minimize the risk of hydrogen embrittlement and stress corrosion cracking.										
Typical grain size ≥6 in accordance to ASTM E112 and ISO 643.										
Manufacturer's certificate refers to EN 1677-4.										
ISO 9001:2015 approval by SGS (Certificate ZA17/209870) - Address: Harrowdene Office Park, Building 1, Western Service Road, Woodmead, Johannesburg, 2191, South Africa										
Company Representative: C. Djordjevic (General Manager -McKinnon Chain South Africa Pty Ltd)										
Technical file compiled and certificate signed off by: F. Strydom (Technical Manager) - Use company address above										
After treatment of chain : This certificate is only applicable to goods properly used in the condition supplied by McKinnon Chain South Africa Pty Ltd. Further processing by, or on behalf of, the user (involving: cold working, heating, electroplating, hot-dip galvanizing or other treatments) is entirely the user's responsibility and invalidates this certificate and the manufacturer's product warranty obligations. This certificate is invalidated by any alterations and/or deletion to the content of the original certificate.										
The components are designed, approved, tested and certified in accordance with the following specification / standard:										
DNV 2.7-1 and DNV 2.7-3										
This certificate is based on DNV type approval no. TAS0000337 Rev 3.										
Note: Actual test data available on request										
Authorized Person		F. Strydom (Technical Manager)				Signature				2023-09-01



Vereeniging, Gauteng, RSA

Certificate of Conformance - DNV Type Approval

Det Norske Veritas Certificate Note 2.7-1 Offshore Containers

Certificate Number: CC7-2023100400371

Location of Issue: Crosby Europe (UK) Ltd.
Station Street, Cradley Heath
West Midlands B64 6AJ, United Kingdom
Phone: 01226 290516 Fax: 01226 240118

Stock No: 1262059

Description of Gear: G2130OC 9.5t OC Bolt Type Anchor Shackle 1-1/8" Maxtough[®]

Working Load Limit: 9.5t

Proof Load: 19t

t indicates metric tons

Comments: 6:1 Design Factor. Meets the requirements of API-2CCU.

Note: Meets the performance requirements of Federal Specification RR-C-271H Type IVA,
Grade A, Class 3, except for those provisions required of the contractor.

Meets or exceeds all requirements of ASME B30.26.

Crosby G2130OC shackles can be used in general service with good rigging practice down to
temperatures of -40 °F (-40 °C). DNV type-approved design temperature is -4 °F (-20 °C).

Has not been contaminated by Mercury or Asbestos in the manufacturing process.

Number of Pieces: 100 Bow: 6ZD Bolt: 1ZF

PICs are based on visual observation

Certificate based on item being the Crosby product described above.

Crosby has been evaluated under the DNV Type Approval Program. The Crosby Group and McKissick Products have been
determined to be capable of consistently manufacturing the product noted above in compliance with the DNV Design
Assessment Certificate #TAS00002GA and the following standards: DNV 2.7-1 and EN 13889 : 2003.

This product at the time of manufacture does not exceed the threshold for any of the hazardous listed chemicals in
Appendix 1 of MEPC.269(68) 2015 Guidelines.



Load Rated

Fatigue Rated



MAXTOUGH[®]



For Product Delivered To: Hendrik Veder Group UK Ltd
Aberdeen Office
Unit 6-7 Woodside Road, Bridge of Don
Bridge of Don United Kingdom

Date: October 04, 2023
Date of Issuance

Signature: Lillemor Hjalmeifjord
Lillemor Hjalmeifjord, Quality Assurance



Certificate No: CPS 244

CERTIFICATE FOR LIFTING SET SHACKLES

Manufacturer: Crosby Europe N.V.		Address: Industriepark Zone B nr 26 2220 Heist-Op-Den-Berg, BELGIUM	
Det Norske Veritas Type Approval No: TAS00002GA	Manufacturing Survey Agreement with DNV:		Type Designations: G2130OC
Description of the Shackle: 9 ½ t Shackle Assembly, size 11/8"			
Working Load Limit (WLL): 9 ½ t	Proof Load (PL): 19 t	Breaking Load (BL): 57 t	
Production (proof) testing: Per EN13889 Par. 6.3.1 and Table 5			
Test Performed: Charpy Impact @ -20°C (-4°F)		Test Result: Acceptable	
Test Report No.: SOUTHDOWN A74083 Bow: 80 74 81, AV 78. JOULES			
Marking: Bow: 6ZD			
These shackles have been designed, approved, and tested in accordance with Det Norske Veritas Certification Notes No. 2.7-1 "Certification of Offshore Containers", 2013			
The shackles also conform to the following standards: EN 13889			
Material Certificate Reference: Bow: material certificate 3.1 per EN10204: N°: 24706/2022(125), HEAT NO: 246949, SUPPLIER: ARCELOR MITTAL			
Remarks: None			
This certificate is based on DNV type approval no. TAS00002GA			
Date: May 2, 2023	Signature  Lillemor Hjalmejord Quality Assurance Manager EMEA		
Place: Putte			

FOR OFFSHORE CONTAINERS



Certificate No: 76346

**CERTIFICATE FOR LIFTING SET SHACKLES
FOR OFFSHORE CONTAINERS**

Manufacturer: Crosby Europe N.V.		Address: Industriepark Zone B nr 26 2220 Heist-Op-Den-Berg, BELGIUM	
Det Norske Veritas Type Approval No: TAS00002GA		Manufacturing Survey Agreement with DNV:	Type Designations: G2130OC
Description of the Shackle: 9 ½ t Shackle Assembly, size 1 1/8"			
Working Load Limit (WLL): 9 ½ t	Proof Load (PL): 19 t	Breaking Load (BL): 57t	
Production (proof) testing: Per EN13889 Par. 6.3.1 and Table 5			
Test Performed in the base material: Charpy Impact @ -20°C (-4°F)		Test Result: Acceptable	
Test Report No.: PZ-2023-0132872: 122-128-130 Joules – Average 127 Joules			
Marking: Bolt: 1ZF			
These shackles have been designed, approved, and tested in accordance with Det Norske Veritas Certification Notes No. 2.7-1 "Certification of Offshore Containers", 2013			
The shackles also conform to the following standards: EN 13889			
Material Certificate Reference: Bolt: Material certificate 3.1 per EN 10204/2004: N° 000041066/1, OVAKO 2-6813			
Remarks: None			
This certificate is based on DNV type approval no. TAS00002GA			
Date: May 10, 2023			
Place: Putte	Lillemor Hjalmeifjord QA Manager EMEA		