

EUROPEAN FEDERATION FOR WELDING, JOINING AND CUTTING



Having satisfied the requirements of the EWF Manufacturer Certification System for the following Scheme(s):

Welding Quality Management Scheme EN ISO 3834 Part [2] (Doc. EWF 636 – Part 1)

Company: **Howco**

The Unit: **N/A**

Located in: **Drybridge Park, Irvine**

is certified for the product(s):

Structural frames/assemblies, pipes/components (cladding) for the oil and gas industry

with the scope of work stated in the attached Schedule

Certificate number and revision status: **130068/GB – Rev. 1**

First Issue date: **14/02/2013**

Current issue date: **09/02/2018**

Date of expiry: **29/01/2023**

ANBCC Governing Board Representative

Julio Tolaini

Scheme Manager

Chris Eady

TWI Certification Ltd, United Kingdom



This certificate is subject to the rules established by EWF for the certification of Companies

EWF Manufacturer Certification System

SCHEDULE

Extent of validity of EWF Certificate N° 130068/GB Rev. 2

Product standard(s):

API 6A DNV OS F101

Alternative Standard(s) (refer to EN ISO 3834 – 5)

ASME IX ASNT

Welding process (ISO 4063)		Parent material groups (CEN ISO/TR 15608)
MMA	(111)	Group 1 Carbon steels
SAW	(121)	Group 3 Quenched and tempered steels
FCAW	(136)	Group 5 Cr-Mo steels
TIG	(141)	Group 8 Austenitic stainless steels
Hotwire TIG	(141)	Group 10 Austenitic ferritic stainless steels

Responsible Coordination Personnel:

Scheme**	Name	Qualification	Job function and level***
ISO 3834	T Robertson	BSc Metallurgy, PhD	Comprehensive
	N Hendry	CEng AWeldI	Comprehensive
	D Jeffrey	AWeldI, HNC Fab & Weld	Comprehensive

**Specify EN ISO 3834, EMS or SMS

*** In the case of EN ISO 3834 scheme, the level must be stated in order to comply with EN ISO 14731

ANBCC Governing Board Representative

Scheme Manager



Julio Tolaini



Chris Eady



INTERNATIONAL INSTITUTE OF WELDING

Having satisfied the requirements of the
IIW Manufacturer Certification Scheme
according to ISO 3834



Company: Howco

The Unit: N/A

Located in: Drybridge Park, Irvine

is certified in accordance with

BS EN ISO 3834 Part 2

For the product(s): Structural frames/assemblies, pipes/components (cladding) for the oil
and gas industry

with the scope of work stated in the attached Schedule

Certificate number and revision status: 130068/GB – Rev. 1

First issue date: 14/02/2013

Current issue date: 09/02/2018

Date of expiry: 29/01/2023

ANBCC Governing Board Representative

Julio Tolaini

Scheme Manager

Chris Eady

TWI Certification Ltd, United Kingdom



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IIW Manufacturer Certification Scheme

SCHEDULE

Schedule Revision Date 09/02/2018 Rev. 2

Related to Certificate Number 130068/GB Rev. 1

Product/Construction standard(s)

API 6A / DNV OS F101

Alternative Standard(s) (refer to ISO 3834-5, clause 2.1 b)

ASME IX / ASNT

Welding Process(es) (ISO 4063)

MMA (111) / SAW (121) / FCAW (136) / TIG (141) / Hotwire TIG (141)

Parent Material Group(s) (ISO/TR 15608)

1 / 3 / 5 / 8 / 10

Responsible Welding Coordination Personnel

Name (Qualification) (1)	Job Title (2)	Technical knowledge (3)
T Robertson, BSc Metallurgy, PhD	Welding Manager	Comprehensive
N Hendry CEng AWeldI	RWC	Comprehensive
D Jeffrey AWeldI, HNC Fab & Weld	RWC	Comprehensive

ANBCC Governing Board Representative
Julio Tolaini

Scheme Manager
Chris Eady



The standards and documents referred in the certificate and schedule are those valid at the time of certification



TWI Certification Ltd

Welding Fabricator Certification Scheme

Registration Number 130068/GB Rev 1

This is to Certify that

Howco

*has been assessed in accordance with the
Rules of the scheme in respect of their control
of welding operations involved in the manufacture of:*

***Structural frames/assemblies, pipes/components
(cladding) for oil and gas industry***

as shown on the attached Schedule

*The Company's Welding Management System
complies with ISO 3834 Part 2 and EWF/IIW requirements*

Full details are held on the TWI register of Certified Companies

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Chairman
Certification Management Board

A handwritten signature in black ink, appearing to be 'P. H. ...', written over a horizontal line.

Scheme Manager



Schedule

<i>Howco Drybridge Park Shewalton Road Irvine KA11 5AL</i>	<i>Registration Number 130068/GB Issue 2 Valid: 9 February 2018 to 29 January 2023 (subject to satisfactory periodic surveillance)</i>
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Product range:

Structural frames/assemblies, pipes/components (cladding) for the oil and gas industry

Materials

*Group 1 Carbon steel
Group 3 Quenched and tempered steel
Group 5 Cr-Mo Steels
Group 8 Austenitic stainless steel
Group 10 Austenitic ferritic stainless steels*

Chairman
Certification Management Board

Scheme Manager

EUROPEAN FEDERATION FOR WELDING, JOINING AND CUTTING



Having satisfied the requirements of the EWF Manufacturer Certification System for the following Scheme(s):

Welding Quality Management Scheme EN ISO 3834 Part [2] (Doc. EWF 636 – Part 1)

Company: **Howco**

The Unit: **N/A**

Located in: **Riverside Business Park, Irvine**

is certified for the product(s):

Structural frames/assemblies, pipes/components (cladding) for the oil and gas industry

with the scope of work stated in the attached Schedule

Certificate number and revision status: **180167/GB – Rev. 1**

First Issue date: **24/06/2015**

Current issue date: **09/02/2018**

Date of expiry: **29/01/2023**

ANBCC Governing Board Representative

Julio Tolaini

Scheme Manager

Chris Fady

TWI Certification Ltd, United Kingdom



This certificate is subject to the rules established by EWF for the certification of Companies

EFW Manufacturer Certification System

SCHEDULE

Extent of validity of EFW Certificate N° 180167/GB Rev. 2

Product standard(s):

API 6A DNV OS F101

Alternative Standard(s) (refer to EN ISO 3834 – 5)

ASME IX ASNT

Welding process (ISO 4063)		Parent material groups (CEN ISO/TR 15608)
MMA	(111)	Group Carbon steels
SAW	(121)	Group 3 Quenched and tempered steels
MAG	(136)	Group 5 Cr-Mo steels
TIG	(141)	Group 8 Austenitic stainless steels
Hotwire TIG	(141)	Group 10 Austenitic ferritic stainless steels

Responsible Coordination Personnel:

Scheme**	Name	Qualification	Job function and level***
ISO 3834	T Robertson	BSc Metallurgy, PhD	Comprehensive
	N Hendry	CEng AWeldI	Comprehensive
	D Jeffrey	AWeldI, HNC Fab & Weld	Comprehensive

**Specify EN ISO 3834, EMS or SMS

*** In the case of EN ISO 3834 scheme, the level must be stated in order to comply with EN ISO 14731

ANBCC Governing Board Representative

Scheme Manager



Julio Tolaini



Chris Eady



INTERNATIONAL INSTITUTE OF WELDING

Having satisfied the requirements of the
IIW Manufacturer Certification Scheme
according to ISO 3834



Company: Howco

The Unit: N/A

Located in: Riverside Business Park, Irvine

is certified in accordance with

BS EN ISO 3834 Part 2

For the product(s): Structural frames/assemblies, pipes/components (cladding) for the oil
and gas industry

with the scope of work stated in the attached Schedule

Certificate number and revision status: 180167/GB – Rev. 1

First issue date: 24/06/2015

Current issue date: 09/02/2018

Date of expiry: 29/01/2023

ANBCC Governing Board Representative

Julio Tolaini

Scheme Manager

Chris Eady

TWI Certification Ltd, United Kingdom



This Certificate is subject to the rules established by IIW
for the certification of Companies





IIW Manufacturer Certification Scheme

SCHEDULE

Schedule Revision Date 09/02/2018 Rev. 2

Related to Certificate Number 180167/GB Rev. 1

Product/Construction standard(s)

API 6A / DNV OS F101

Alternative Standard(s) (refer to ISO 3834-5, clause 2.1 b)

ASME IX / ASNT

Welding Process(es) (ISO 4063)

MMA (111) / SAW (121) / FCAW (136) / TIG (141) / Hotwire TIG (141)

Parent Material Group(s) (ISO/TR 15608)

1 / 3 / 5 / 8 / 10

Responsible Welding Coordination Personnel

Name (Qualification) (1)	Job Title (2)	Technical knowledge (3)
T Robertson, BSc Metallurgy, PhD	Welding Manager	Comprehensive
N Hendry, CEng AWeldI	RWC	Comprehsnive
D Jeffrey	RWC	Comprehensive

ANBCC Governing Board Representative
Julio Tolaini

Scheme Manager
Chris Eady



The standards and documents referred in the certificate and schedule are those valid at the time of certification



TWI Certification Ltd

Welding Fabricator Certification Scheme

Registration Number 180167/GB Rev 1

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Howco

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***Structural frames/assemblies, pipes/components
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as shown on the attached Schedule

***The Company's Welding Management System
complies with ISO 3834 Part 2 and EWF/IIW requirements***

Full details are held on the TWI register of Certified Companies

Chairman
Certification Management Board

Scheme Manager



Schedule

<i>Howco 6 Drummond Crescent Riverside Business Park Irvine KA11 5AN</i>	<i>Registration Number 180167/GB Issue 2 Valid: 9 February 2018 to 29 January 2023 (subject to satisfactory periodic surveillance)</i>
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Product range:

Structural frames/assemblies, pipes/components (cladding) for the oil and gas industry

Materials

- Group 1 Carbon steel*
- Group 3 Quenched and tempered steel*
- Group 5 Cr-Mo Steels*
- Group 8 Austenitic stainless steel*
- Group 10 Austenitic ferritic stainless steels*

A handwritten signature in black ink, appearing to be 'M. J. ...'.

Chairman
Certification Management Board

A handwritten signature in black ink, appearing to be 'S. ...'.

Scheme Manager