

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Cable Tray**with type designation(s)
W3 and W4 and accessoriesIssued to
AB Wibe
MORA, Swedenis found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****For installation on board Offshore Units and Ships.****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**This Certificate is valid until **2019-12-31**.Issued at **Høvik** on **2017-01-18**DNV GL local station: **Stockholm**Approval Engineer: **Nicolay Horn**for **DNV GL**

Andreas Kristoffersen
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Job Id: **262.1-002116-7**
 Certificate No: **TAE00000MN**
 Revision No: **1**

Name and place of manufacturer

Schneider Electric,
 WIBE, Sweden

Product description

Cable tray system W3 W4 including cantilever arm 50i and accessories

Cable tray W3

Classification according to:	IEC 61537 Class
6.1 Material	Metallic
6.2 Resistant to Flame Propagation	Non Flame Propagation
6.3 Electrical Continuity Characteristics	With Electrical Continuity Characteristics
6.4 Electrical Conductivity	Electrical Conductivity Characteristics
6.5 Resistance Against Corrosion	System component made of steel with metallic Finishes or stainless steel
6.6.1 Minimum Temperature	- 40 °C
6.6.2 Maximum Temperature	+120 °C
6.7 Perforation in the Base Area	Classification B
6.8 free base area	NA
6.9 Impact resistance	Up to 20 J

Height 40 mm

Standard surface:	Hot dip galvanised, ZINKPOX				
	Length (mm)	Width (mm)	Weight (kg/m)	Thickness (mm)	Longitudinal deflection no load (mm)
W3/40-50	3000	50	1,10	1,0	4,0
W3/40-70	3000	70	1,20	1,0	4,0
W3/40-100	3000	100	1,56	1,0	4,0
W3/40-150	3000	150	1,70	1,0	4,0
W3/40-200	3000	200	2,20	1,0	4,0
W3/40-300	3000	300	3,50	1,25	5,0
W3/40-400	3000	400	4,53	1,25	5,0
W3/40-500	3000	500	6,20	1,5	6,0
W3/40-600	3000	600	7,23	1,5	6,0

Standard surface:	Pre-galvanized with or without powder coating.				
	Length (mm)	Width (mm)	Weight (kg/m)	Thickness (mm)	Longitudinal deflection no load (mm)
W3/40-50	3000	50	1,03	1,0	4,0
W3/40-70	3000	70	1,20	1,0	4,0
W3/40-100	3000	100	1,36	1,0	4,0
W3/40-150	3000	150	1,70	1,0	4,0
W3/40-200	3000	200	1,96	1,0	4,0
W3/40-300	3000	300	3,16	1,25	5,0
W3/40-400	3000	400	3,90	1,25	5,0
W3/40-500	3000	500	5,90	1,5	6,0
W3/40-600	3000	600	6,83	1,5	6,0

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Height 60 mm

Standard surface:	Pre-galvanized with or without powder coating.				
	Length (mm)	Width (mm)	Weight (kg/m)	Thickness (mm)	Longitudinal deflection no load (mm)
W3/60-70	3000	70	1,50	1,0	5,0
W3/60-100	3000	100	1,80	1,0	5,0
W3/60-150	3000	150	2,00	1,0	5,0
W3/60-200	3000	200	2,40	1,0	5,0
W3/60-300	3000	300	3,37	1,25	7,0
W3/60-400	3000	400	4,40	1,25	7,0

Installation tray W4

Standard surface:	Hot dip galvanised, ZINKPOX, pre-galvanized with or without powder coating.				
	Length (mm)	Width (mm)	Weight (kg/m)	Thickness (mm)	Longitudinal deflection no load (mm)
W4-50	3000	50	0,54	1,0	2,5
W4-75	3000	75	0,70	1,0	2,5
W4-100	3000	100	0,87	1,0	2,5
W4-150	3000	150	1,17	1,0	2,5
W4-200	3000	200	1,82	1,25	2,5
W4-250	3000	250	2,23	1,25	2,5
W4-300	1960	300	2,60	1,25	2,5
W4-400	1960	400	3,38	1,25	2,5

Cantilever arm 50i

Standard surface:	Hot dip galvanised, ZINKPOX, pre-galvanized with or without powder coating.				
	Length (mm)	Hight (mm)	Weight 100 pcs (kg/m)	Thickness (mm)	Deflection (mm)
Cantilever arm 50i- 100	150	80	19	1,5	5,6
Cantilever arm 50i- 200	250	85	29	1,5	5,9
Cantilever arm 50i- 300	350	110	46	1,5	9,8
Cantilever arm 50i- 400	450	115	83	2	10,9
Cantilever arm 50i- 500	550	150	170	2,5	9,7
Cantilever arm 50i- 600	650	150	191	2,5	10,5

Standard surface:	Pre-galvanized with or without powder coating.				
	Length (mm)	Hight (mm)	Weight 100 pcs (kg/m)	Thickness (mm)	Deflection (mm)
Cantilever arm 50i- 100	150	80	19	1,5	5,6
Cantilever arm 50i- 200	250	85	29	1,5	5,9
Cantilever arm 50i- 300	350	110	46	1,5	9,8
Cantilever arm 50i- 400	450	115	83	2	10,9
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Standard surface:	Electroplated				
	Length (mm)	Hight (mm)	Weight 100 pcs (kg/m)	Thickness (mm)	Deflection (mm)
Cantilever arm 50i- 100	150	80	19	1,5	5,6
Cantilever arm 50i- 200	250	85	29	1,5	5,9
Cantilever arm 50i- 300	350	110	46	1,5	9,8
Cantilever arm 50i- 400	450	115	83	2	10,9
Cantilever arm 50i- 500	550	150	170	2,5	9,7
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Application/Limitation

The cable tray system type W3 and W4 should be installed in accordance with the producer's loading table for the mentioned type.

The installation is to be mechanical protected in accordance with our Rules and especially on weather decks in cargo hold areas and through cargo holds.

Type Approval documentation

WIBE catalogue "Cable Trays and Integrated Ceilings", version 06.
Schneider Electric CE file "Common accessories Wibe/Defem & Catalogue LSB02867_01-2015_EN issued 2016-05-09
Schneider Test Report No. TST-2015/00195 undated.
Schneider Test Report No. TST-2016/00008 dated 2016-10-03.
Schneider Test Report No. TST-2016/00032 dated 2014-07-15.
Schneider Test Report No. TP1049 dated 1998-06-10.
Schneider Test Report No. TP1058 dated 1998-06-10.
Schneider Test Report No. TP1059 dated 1998-06-10.
Schneider Test Report No. TP1271 dated 2014-03-25.
Schneider Test Report No 222/2015 dated 2015-10-01
SP Rapport "Korrosionprovning av kabelrännor", reference P2 03143-a, issued 2002-08-11.
WIBE test nos. WTO 035, WTO 046, WTO 304, WTO 343, WTO 344, WTO 376 and WTO 692.

Tests carried out

Load bending test according to IEC 61537, Test for impact resistance, Electrical continuity & salt mist test.

Marking of product

WIBE Systems – Type designation – Width – Material (cover marking).

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval is complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Assessment to be performed at 2 and 3,5 year.

END OF CERTIFICATE