




# RAIL HOSE

High-quality, robust abrasion-resistant hydraulic and industrial hose for the demanding conditions of the rail industry standard EN45545





The railway industry is a growing sector with ever improving technology and changing national and international regulations in order to offer a encore faster, lower cost and more environmental service.

Hydroscand is aware of the sector needs with its vision focus on energy efficiency, safety and productivity. The challenge facing the rail industry is to make rail travel as reliable, efficient, safe and comfortable as possible. Power is fundamental to keeping rail networks moving - whether managing power in a centralised depot, in the rolling stock or in helping ensure sufficient power reaches remote stations.

Driven by regulations and increased globalisation, train builders and railway

operators must find ways to reduce downtime, increase productivity and enhance safety and security to drive profitability and make the industry more sustainable.

Hydroscand understands the need for power solutions that work.

Powering the rail industry means helping our customers build better and safer trains, while enabling railway operators to operate competitively with products designed for maximum reliability.

Our focus on energy efficiency and safety means our customers can rest assured that they'll be able to meet stringent regulations and drive the industry towards a sustainable future.

## Upgrade to a railway hose that meets internal and external requirements

EN 45545-2 is the single standard for hose assembly fire behaviour (toxicity, smoke density and oxygen-depletion), now adopted by all EU nations. Over the next few years EN45545-2 will replace the country-by-country standards formerly in place.

Our railway hose conforms to the EN45545-2 standard and is now available for use in a variety of railway

applications. In fact, the railway hose also meets up to R22/HL3 and R23/HL3 requirements for our 1SN,2SN,3TE. It is available with R22/HL2 and R23/HL3 in 1SC, 2SC and 2TE models. Available with R22/HL2 and R23/HL2 in R4 model.



Hydroscand is offering leading products that guarantee the highest levels of safety and performance for all areas within the conveyance systems used.

## Tested conformance to EN45545-2

The advent of a single standard for hose assembly fire behaviour (EN 45545-2) has been adopted and is replacing country-by-country standards. Hydroscand supplies hose that conforms to every part of the standard and also elevates the product offering to HL3 compatible parts.

Table 1  
EN45545-2 conformance tests by country

Country	Standard	Test Item
France	French standard NF F 16-101 Tests fire behavior, fire effluents and toxicity of the hose	Smallest, medium and largest width of a specific hose type: <ul style="list-style-type: none"> <li>Flame resistance class I3</li> <li>Smoke generation and toxicity class F3</li> </ul>
Germany	German standard DIN 5510 part 2 (05/2009) Tests fire behavior, fire effluents and toxicity of the hose	Smallest and largest nominal width of a specific hose type: <ul style="list-style-type: none"> <li>Flammability class S3</li> <li>Droplet class ST2</li> <li>Smoke generation class SR2</li> <li>Toxicity FED (t zul.) &lt; 1</li> </ul>
Great Britain	British standard BS 6853 Tests fire behavior and fire effluents of the hose cover material	Rubber hose cover material Smoke behavior Release of toxins meets the limit value: category Ib, II
Italy	Italian standard UNI CEI 11170-3 Tests fire behavior and fire effluents of hose material	The smallest and largest nominal width of a specific hose type: <ul style="list-style-type: none"> <li>Smoke generation</li> <li>Fire resistance</li> <li>Toxicity</li> <li>Overall class: LR4</li> </ul>

## Meets and exceeds hazard requirements

Most manufacturers have yet to meet the stringent requirement sets for R22 and R23. Our Railway hose is certified to conform to the EN45545-2 standards.

Requirement set used for	Test Method & Reference	Testing for (unit)	Minimum / Maximum	Thresholds HL1	HL2	HL3	Eaton Railway Hoses
Inside uses R22 (IN16; EL2; EL6A; EL7A; M2)	T01 EN ISO 4589-2: OI	Oxygen Content (%)	Minimum	28	28	32	Meets and/or exceeds HL3 minimum threshold
	T10.03 EN ISO 5659-3 25kWm <sup>-2</sup>	Smoke Density (D <sub>s</sub> max. dimensionless)	Maximum	600	300	150	Meets and/or exceeds HL3 maximum threshold
	T12 NF X70-100-1 and -2, 600° C	Smoke Toxicity (CIT <sub>NLP</sub> dimensionless)	Maximum	1.2	0.9	0.75	Meets and/or exceeds HL3 maximum threshold
Outside uses R23 (EX12; EL2; EL5 EL6B; EL7B; M3)	T01 EN ISO 4589-2: OI	Oxygen Content (%)	Minimum	28	28	32	Meets and/or exceeds HL3 minimum threshold
	T10.03 EN ISO 5659-3 25kWm <sup>-2</sup>	Smoke Density (D <sub>s</sub> max. dimensionless)	Maximum	-	600	300	Meets and/or exceeds HL3 maximum threshold
	T12 NF X70-100-1 and -2, 600° C	Smoke Toxicity (CIT <sub>NLP</sub> dimensionless)	Maximum	-	1.8	1.5	Meets and/or exceeds HL3 maximum threshold







Hose type	Hose spec	R22 (internal)	R23 (external)	Size
Railway 1SC	EN 857	HL2	HL3	¼" to 1"
Railway 2SC	EN 857	HL2	HL3	¼" to 1"
Railway 2SC	EN 857	HL3	HL3	1 1/4" to 2"
Railway 2TE	EN 854	HL2	HL3	3/16" to 1"
Railway 3TE	EN 854	HL3	HL3	¼" to 1"
Railway R4	SAE 100 R4	HL2	HL2	3/4" to 3"
Railway Airbrake (UIC830-1)	SAE 100 R4	HL1	HL2	1/2" to 1 3/8"

Available to order

## Railway 1SC



EN857 type 1SC / EN45545-2

DN	 Hose I.D.		 Hose O.D. (max)		 Working Pressure	 Min. Burst Pressure	 Min. Bend Radius	 Weight
	mm	in	mm	in	bar	bar	mm	kg/m
6	6.4	0.25	13.5	0.53	225	900	50	0.18
8	7.9	0.31	14.5	0.57	215	860	55	0.21
10	9.5	0.38	16.9	0.67	180	720	65	0.26
12	12.7	0.5	20.4	0.8	160	640	90	0.35
16	15.9	0.63	23	0.91	130	520	100	0.43
19	19	0.75	26.7	1.05	105	420	120	0.5
25	25.4	1	34.9	1.37	88	352	150	0.74

**Temp. Range:**

-40 °C to +125 °C

Air max +75°C

Water max +85°C

**Inner Tube:**

Synthetic rubber tube

**Reinforcement:**

One steel braid

**Cover:**

Synthetic rubber cover

**Typical Application:**

Hydraulic system service with petroleum and water based fluids, for general industrial service.

**Additional Certificates:**







EN45545-2

ISO15540

## Railway 2SC



EN857 type 2SC / EN45545-2

DN	 Hose I.D.		 Hose O.D. (max)		 Working Pressure	 Min. Burst Pressure	 Min. Bend Radius	 Weight
	mm	in	mm	in	bar	bar	mm	kg/m
6	6.4	0.25	14.2	0.56	400	1600	50	0.29
8	7.9	0.31	16.0	0.63	350	1400	55	0.33
10	9.5	0.38	18.3	0.72	330	1320	65	0.41
12	12.7	0.5	21.5	0.85	275	1100	90	0.58
16	15.9	0.63	24.7	0.97	250	1000	100	0.69
19	19	0.75	28.6	1.13	215	860	120	0.81
25	25.4	1	36.6	1.44	165	660	150	1.17
31	31.8	1.25	44.4	1.75	125	500	210	1.53
38	38.1	1.5	51.5	2.03	100	400	250	1.89
51	50.8	2	64.2	2.53	90	360	315	2.42

**Temp. Range:**

-40 °C to +125 °C

Air max +75°C

Water max +85°C

**Inner Tube:**

Synthetic rubber tube

**Reinforcement:**

Two steel braids

**Cover:**

Synthetic rubber cover

**Typical Application:**

Hydraulic system service with petroleum and water based fluids, for general industrial service.

**Additional Certificates:**

EN45545-2

ISO15540







Available to order

Available on request

## Railway 2TE



EN854 Type 2TE / EN45545-2

								
DN	Hose I.D.		Hose O.D. (max)		Working Pressure	Min. Burst Pressure	Min. Bend Radius	Weight
	mm	in	mm	in	bar	bar	mm	kg/m
5	4.8	0.19	12.6	0.5	80	320	35	0.12
6	6.4	0.25	14.2	0.56	75	300	40	0.15
8	7.9	0.31	15.7	0.62	68	270	50	0.17
10	9.5	0.38	17.3	0.68	63	250	60	0.20
12	12.7	0.5	20.7	0.81	58	230	70	0.24
16	15.9	0.63	24.9	0.98	50	200	90	0.33
19	19	0.75	28.0	1.10	45	180	110	0.38
25	25.4	1	35.9	1.41	40	160	150	0.55

**Temp. Range:**

-40 °C to +125 °C

Air max +75°C

Water max +85°C

**InnerTube:**

Synthetic rubber tube

**Reinforcement:**

One textile braid

**Cover:**

Synthetic rubber cover

**Typical Application:**

Hydraulic system service with petroleum and water based fluids, for general industrial service.







**Additional Certificates:**

EN45545-2

## Railway 3TE



EN854 Type 3TE / EN45545-2

								
DN	Hose I.D.		Hose O.D. (max)		Working Pressure	Min. Burst Pressure	Min. Bend Radius	Weight
	mm	in	mm	in	bar	bar	mm	kg/m
6	6.4	0.25	15.2	0.60	145	580	45	0.33
8	7.9	0.31	17.7	0.69	130	520	55	0.41
10	9.5	0.38	19.3	0.76	110	440	70	0.58
12	12.7	0.5	22.7	0.89	93	372	85	0.69
16	15.9	0.63	26.9	1.05	80	320	105	0.81
19	19	0.75	30.0	1.18	70	280	130	1.17
25	25.4	1	37.4	1.47	55	220	150	2.42

**Temp. Range:**

-40 °C to +125 °C

Air max +75°C

Water max +85°C

**InnerTube:**

Synthetic rubber tube

**Reinforcement:**

Two textile braids

**Cover:**

Synthetic rubber cover

**Typical Application:**

Hydraulic system service with petroleum and water based fluids, for general industrial service.

**Additional Certificates:**

EN45545-2

Available on request

Available on request

## Railway R4



SAE 100 R4/ EN45545-2

DN	Hose I.D.		Hose O.D. (max)		Working Pressure	Min. Burst Pressure	Min. Bend Radius	Vacuum	Weight
	mm	in	mm	in	bar	bar	mm	bar	kg/m
19	19	0.75	32.6	1.28	21	84	40	-0.80	0.83
25	25.4	1	38.2	1.50	17	68	45	-0.80	0.97
31	32	1.26	46.0	1.81	14	56	60	-0.80	1.29
38	38	1.5	52.4	2.06	10	40	65	-0.80	1.65
51	50.8	2	66.0	2.60	7	28	100	-0.80	2.37
63	63.5	2.5	79.1	3.11	4	16	140	-0.80	2.92
80	76.2	3	95.0	3.74	4	16	180	-0.80	4.18

Temp. Range:

-40 °C to +125 °C

Air max +75°C

Water max +85°C

InnerTube:

Synthetic rubber tube

Reinforcement:

One textile braid

Cover:

Synthetic rubber cover

Typical Application:

Hydraulic system service with petroleum and water based fluids, for general industrial service.

Additional Certificates:

EN45545-2

## Railway Airbrake (UIC830-1)



DN	Hose I.D.		Hose O.D. (max)		Working Pressure	Min. Burst Pressure	Min. Bend Radius	Weight
	mm	in	mm	in	bar	bar	bar	kg/m
13	13	0.51	25	0.98	10	70	70	0.487
16	16	0.63	28	1.10	10	70	90	0.525
22	22	0.87	36	1.42	10	70	120	0.868
28	28	1.10	43	1.69	10	70	150	1.139
35	35	1.38	53	2.09	10	70	170	1.548

Temp. Range:

-40°C to +70°C

InnerTube:

Synthetic rubber tube

Reinforcement:

4 textile cord

Cover:

Fire retardant synthetic rubber cover

Typical Application:

For use in railway air brake systems to connect carriages by means of half couplings according to DIN15807:2011

Additional Certificates:

EN45545-2

UIC830-1

EN15807:2011

Available on request





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LAB N° 0086

## RAPPORTO DI PROVA / TEST REPORT NO. 628-631.1IS0040/15 Rev.1

**METODO DI PROVA:**

Test method

UNI EN 45545-2: 2015

**DENOMINAZIONE DELLA PROVA:**

Description of the standard

Requisiti di comportamento al fuoco di materiali e componenti  
Requirements for fire behaviour of materials and components**RICHIEDENTE:**

Sponsor

Eaton Corporation Polimer Kauçuk San.Paz.A.Ş

Çerkezköy Organize Sanayi Bölgesi, Karaağaç Mah. 6.sok No:3  
Kapaklı / TEKIRDAG, TURKEY**DENOMINAZIONE DEI MATERIALI:**

Denomination of the materials

RAILWAY EN857 2SC / EN45545

Diameter from 6.4 mm to 25.4 mm

**GAMMA DIAMETRI NOM. DEI CAMPIONI:**

Nom. diameter range of the samples

6÷25 mm (inc from 1/4" to 1")

(Thick. wall hose: from 4.4 mm to 4.8 mm)

**DESCRIZIONE DEL MATERIALE:**

Description of the material

Tubo in gomma di colore nero con rinforzo metallico.

Black rubber hose with a metallic reinforcement.

- ☐ Questo documento fa riferimento ai Rapporti di Prova no. 628.0IS0030/15, no. 631.0IS0030/15, no. 628.1IS0030/15, no. 631.1IS0030/15, no. 628.1IS0050/15 e no. 631.1IS0050/15 emessi da questo Laboratorio.  
 This certificate refers to the Test Reports no. 628.0IS0030/15, no. 631.0IS0030/15, no. 628.1IS0030/15, no. 631.1IS0030/15, no. 628.1IS0050/15 and no. 631.1IS0050/15 issued by this Laboratory.

Prodotto / Product	M2 (Tubazioni flessibili per interno / Hoses - Interior) M3 (Tubazioni flessibile per esterno / Hoses - Exterior)				
Requisito / Requirement	R22 - R23				
Prove richieste / Tests required	EN ISO 4589-2	EN ISO 5659-2		NF X 70-100-1/-2	
Parametro / Parameter	LOI (%)	(25 kW/m <sup>2</sup> - Flaming) Ds max		CIT <sub>NLP</sub>	
Valori trovati / Values found (1/4" - Rif. Lab. 631/15)	38.2	181		0.14	
Valori trovati / Values found (1" - Rif. Lab. 628/15)	34.2	246		0.13	
	Per / For	Per / For		Per / For	
Limiti di accettazione Acceptance limits	R22 - R23	R22	R23	R22	R23
	HL1: ≥ 28%	HL1: ≤ 600	HL1: ---	HL1: ≤ 1.2	HL1: ---
	HL2: ≥ 28%	HL2: ≤ 300	HL2: ≤ 600	HL2: ≤ 0.9	HL2: ≤ 1.8
	HL3: ≥ 32%	HL3: ≤ 150	HL3: ≤ 300	HL3: ≤ 0.75	HL3: ≤ 1.5

Note / Notes <sup>(1)</sup>: Nessun requisito / No requirement**VALUTAZIONE / JUDGEMENT**

Sulla base dei risultati di prova sopra riportati il materiale in oggetto **È CONFORME** alle richieste di **UNI EN 45545-2: 2015** per livelli di rischio **HL1 - HL2 set di requisiti R22 e HL1 - HL2 - HL3 set di requisiti R23** per la gamma di diametri sopra riportata (estremi inclusi).

On the basis of the above results the sample in object **COMPLIES** with the requirements of **UNI EN 45545-2: 2015** for Hazard Levels **HL1 - HL2 requirement set R22 and HL1 - HL2 - HL3 requirement set R23** for the diameters range reported above (including extreme).

**Nota:** la presente Rev.1 è stata emessa senza ripetizione di prova e differisce dal Rapporto di Prova no. 628-631/15 emesso in data 05/05/2015 esclusivamente per l'aggiornamento dell'anno della norma e per l'estensione della data di scadenza.

**Note:** this Rev.1 has been issued without test repetition; it differs from the Test Report no. 628-631/15 issued on 05/05/2015 exclusively for the year update of the standard and for the extension of the expiry date.

Prato, 03/05/2018

Il Responsabile Certificazione

The Certification Manager

Dr. Massimo Borsini

Il Direttore del Laboratorio

The Director of the Laboratory

Dr. Luca Ermini

Valid until: 04/05/2020



Questo documento deve essere letto congiuntamente ai Rapporti di Prova sopra riportati, per la descrizione del prodotto e per ogni altra notizia di dettaglio. Questo documento non costituisce approvazione di tipo né certificazione di prodotto né tantomeno dichiarazione di conformità, che spetta esclusivamente al Produttore / Sponsor. Il riconoscimento Certifier si riferisce alle prove di EN 45545-2 riportate nella lista pubblicata.  
 This document has to be read in conjunction with the Test Reports listed above, for the description of the product and for every other detail. This document does not represent type approval or certification of the product neither declaration of compliance, that is exclusively under the responsibility of the Manufacturer or Sponsor. The Certifier approval refers to the tests according to EN 45545-2 reported in the published list.





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## RAPPORTO DI PROVA / TEST REPORT NO. 669-670.1IS0040/15 Rev.1

### METODO DI PROVA:

Test method

UNI EN 45545-2: 2015

### DENOMINAZIONE DELLA PROVA:

Description of the standard

Requisiti di comportamento al fuoco di materiali e componenti  
 Requirements for fire behaviour of materials and components

### RICHIEDENTE:

Sponsor

Eaton Corporation Polimer Kauçuk San.Paz.A.Ş

Çerkezköy Organize Sanayi Bölgesi, Karaağaç Mah. 6.sok No:3  
 Kapaklı / TEKIRDAG, TURKEY

### DENOMINAZIONE DEI MATERIALI:

Denomination of the materials

RAILWAY EN854 2TE / EN45545

Diameter from 4.8 mm to 25.4 mm

### GAMMA DIAMETRI NOM. DEI CAMPIONI:

Nom. diameter range of the samples

5÷25 mm (inc from 3/16" to 1")

(Thick. wall hose: from 3.5 mm to 4.6 mm)

### DESCRIZIONE DEL MATERIALE:

Description of the material

Tubo in gomma di colore nero con rinforzo tessile.

Black rubber hose with a textile reinforcement.



- ☐ Questo documento fa riferimento ai Rapporti di Prova no. 669.0IS0030/15, no. 670.0IS0030/15, no. 669.1IS0030/15, no. 670.1IS0030/15, no. 669.1IS0050/15 e no. 670.1IS0050/15 emessi da questo Laboratorio.  
 This certificate refers to the Test Reports no. 669.0IS0030/15, no. 670.0IS0030/15, no. 669.1IS0030/15, no. 670.1IS0030/15, no. 669.1IS0050/15 and no. 670.1IS0050/15 issued by this Laboratory.

Prodotto / Product	M2 (Tubazioni flessibili per interno / Hoses - Interior) M3 (Tubazioni flessibile per esterno / Hoses - Exterior)				
Requisito / Requirement	R22 - R23				
Prove richieste / Tests required	EN ISO 4589-2	EN ISO 5659-2		NF X 70-100-1/-2	
Parametro / Parameter	LOI (%)	(25 kW/m <sup>2</sup> - Flaming) Ds max		CIT <sub>HL</sub>	
Valori trovati / Values found (3/16" - Rif. Lab. 669/15)	34.2	214		0.15	
Valori trovati / Values found (1" - Rif. Lab. 670/15)	32.4	162		0.14	
	Per / For	Per / For		Per / For	
Limiti di accettazione Acceptance limits	R22 - R23	R22	R23	R22	R23
	HL1: ≥ 28%	HL1: ≤ 600	HL1: ---	HL1: ≤ 1.2	HL1: ---
	HL2: ≥ 28%	HL2: ≤ 300	HL2: ≤ 600	HL2: ≤ 0.9	HL2: ≤ 1.8
	HL3: ≥ 32%	HL3: ≤ 150	HL3: ≤ 300	HL3: ≤ 0.75	HL3: ≤ 1.5

Note / Notes <sup>(1)</sup>: Nessun requisito / No requirement

### VALUTAZIONE / JUDGEMENT

Sulla base dei risultati di prova sopra riportati il materiale in oggetto **È CONFORME** alle richieste di **UNI EN 45545-2: 2015** per livelli di rischio **HL1 - HL2** set di requisiti **R22** e **HL1 - HL2 - HL3** set di requisiti **R23** per la gamma di diametri sopra riportata (estremi inclusi).

On the basis of the above results the sample in object **COMPLIES** with the requirements of **UNI EN 45545-2: 2015** for Hazard Levels **HL1 - HL2** requirement set **R22** and **HL1 - HL2 - HL3** requirement set **R23** for the diameters range reported above (including extreme).

**Nota:** la presente Rev.1 è stata emessa senza ripetizione di prova e differisce dal Rapporto di Prova no. 669-670/15 emesso in data 13/05/2015 esclusivamente per l'aggiornamento dell'anno della norma e per l'estensione della data di scadenza.

**Note:** this Rev.1 has been issued without test repetition; it differs from the Test Report no. 669-670/15 issued on 13/05/2015 exclusively for the year update of the standard and for the extension of the expiry date.

Prato, 03/05/2018

Il Responsabile Certificazione

The Certification Manager

Dr. Massimo Borsini

Il Direttore del Laboratorio

The Director of the Laboratory

Dr. Luca Ermini

Valid until: 12/05/2020



Questo documento deve essere letto congiuntamente ai Rapporti di Prova sopra riportati, per la descrizione del prodotto e per ogni altra notizia di dettaglio. Questo documento non costituisce approvazione di tipo né certificazione di prodotto né tantomeno dichiarazione di conformità, che spetta esclusivamente al Produttore / Sponsor. Il riconoscimento Certifier si riferisce alle prove di EN 45545-2 riportate nella lista pubblicata.  
 This document has to be read in conjunction with the Test Reports listed above, for the description of the product and for every other detail. This document does not represent type approval or certification of the product neither declaration of compliance, that is exclusively under the responsibility of the Manufacturer or Sponsor. The Certifier approval refers to the tests according to EN 45545-2 reported in the published list.



# HIGH-PERFORMANCE RAIL HOSE



ar /1525psi BP 420/6100psi

EN45545 RAILWAY EN857 1SC 3/4" ID 19MM WP 105B

Hydroscand offers a wide range of hydraulic and industrial hose and fluid connectors.

Our 1SC and 2SC high-performance rail hose meets the highest European safety levels in compliance with EN4554 and R22/HL2 and R23/HL3.

With world-class products and services supported by a local branch network, BFPA-trained technicians and a 24/7 mobile hydraulic breakdown service - make us your first choice for rail hose.

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01208 78244

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BS11 8DG

0117 982 7204

### **Gloucester**

Goodridge Ave. Ind. Est.  
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GL2 5EA

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### **Nottingham**

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### **Oldbury**

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01752 892 045

### **Redruth**

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Redruth, Cornwall  
TR15 3RH  
01209 212 966

### **Southampton**

5 Southampton Trade Park  
Third Avenue  
Southampton  
SO15 0AD  
023 8078 4446

### **Widnes**

23-27 Violet Street  
Widnes  
WA8 7SB  
0151 424 0880

Most branches are open 08:30 to 17:00 Monday to Friday. Please contact the branch for individual opening hours.



**DEDICATED  
TO THE FLOW**

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A global group with own divisions for Aftermarket, OEM, Automotive, Machine, Pipe Bending and Special Hoses in 20 countries | With more than 1,400 employees and 240 branches Hydroscand is always strategically positioned to support our customers' operations | 50 years of experience within the industry | Constantly evolving to provide customers with the best service | Quality certified according to ISO 9001 | [www.hydroscand.com](http://www.hydroscand.com)