

# AEROLINE®

TECHNOLOGIA PODŁĄCZANIA  
POMP CIEPŁA



TECHNICAL  
INSULATION



# TECHNICAL INSULATION

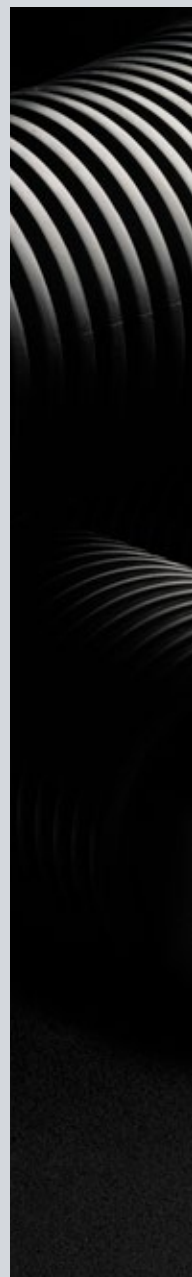
by



[www.nmc-insulation.com](http://www.nmc-insulation.com)

# SPIS TREŚCI

AEROLINE® inox terra	7
Akcesoria AEROLINE® inox terra	10
AEROLINE® pex terra	12
Akcesoria AEROLINE® pex terra	15
AEROLINE® pex pro gs	18
AEROLINE® inox pro gs	20
AEROLINE® inox connect 200	22
Straty ciśnienia	24
AEROLINE® inox rapid	25
AEROLINE® inox rapid classic	26
AEROLINE® inox rapid pro gs	28
AEROLINE® inox rapid basic	31
Notatki	33





#### INFORMACJE OGÓLNE

- Ceny obowiązują od 1 stycznia 2024 r.
- Wszystkie poprzednie cenniki tracą ważność.
- Zastrzega się możliwość wystąpienia pomyłek i błędów drukarskich. Sugerowana cena plus ustawy podatek VAT.
- Wszystkie dostawy podlegają naszym ogólnym warunkom dostaw, usług i płatności.
- Dostawa wyłącznie w kompletnych opakowaniach.
- Po otrzymaniu należy sprawdzić, czy towar jest kompletny.
- Wszelkie rozbieżności muszą zostać odnotowane na dowodzie dostawy i podpisane przez kierowcę.
- Kosztami zwrotu towaru obciąża się klienta.
- Zwroty towarów należy zgłosić.



# E

# L

# I

# N

# O

# A

# E



## SYSTEM INSTALOWANYCH NA ZEWNĄTRZ PODZIEMNYCH RUROCIĄGÓW POMP CIEPŁA POWIETRZE/WODA.

- Modułowy, kompletny system
- Podwójna ochrona przed wnikaniem wody dzięki dwuściennej konstrukcji rury
- Wymienne wkładki na maksymalnie 2 przewody sterujące i przewody sensoryczne (5-17 mm) z wtyczkami (do średnicy 45 mm)
- Optymalna izolacja termiczna, a co za tym idzie lepsza efektywność energetyczna
- Zintegrowany stały wspornik rur karbowanych ze stali nierdzewnej
- Nadaje się również do pomp ciepła z pracą rewersyjną (funkcja chłodzenia)

# AEROLINE®

## inox terra

AEROLINE® inox terra oferuje kompletny system rurociągów do pomp ciepła, który jest dobrze przemyślany oraz łatwy i szybki w montażu dzięki inteligentnym, szczegółowym rozwiązaniom. Zintegrowane puste przepusty i linki do prowadzenia kabli.

### NAJWAŻNIEJSZE W SKRÓCIE:



#### PROMIEŃ GIĘCIA

Minimalny promień gięcia 50 cm.



#### OTWÓR WPROWADZANIA KABLA

Integracja specyficznych dla producenta kabli sterujących, kabli sensorycznych i kabli elektrycznych.



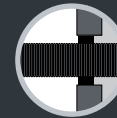
#### ROZSZERZALNOŚĆ LINIOWA

Stale podparcie rur karbowanych ze stali nierdzewnej w celu zintegrowanej kompensacji długości. Łożysko zewnętrzne nie jest wymagane w przypadku stosowania zestawu uszczelniającego do rur osłonowych.



#### OSZCZĘDNOŚĆ ENERGII

Zoptymalizowana geometria izolacji i najniższa przewodność cieplna redukują straty ciepła do minimum



#### USZCZELNIENIE

Optymalna szczelność budynku (wodoszczelność na poziomie 15 m słupa wody).



#### TRANSPORT

Najmniejsze wymiary opakowania.



#### OCHRONA PRZED KONDENSACJĄ / SZCZELNOŚĆ POWIETRZNA

Brak wnikania wilgoci poprzez wymianę powietrza (kondensacja). Zapobiega przedostawaniu się powietrza i efektowi kominia (odpowiedni do testów szczelności Blower Door Test).



# AEROLINE®

inox terra

## ROZWIĄZANIE DLA IDEALNEGO UKŁADU RUR DLA POMP CIEPŁA POWIETRZE/WODA I SOLANKA/WODA W GRUNCIE

### SPECYFIKACJA TECHNICZNA

#### RURA OSŁONOWA

MATERIAŁ	Dwuścienna rura ochronna do kabli wykonana z PE-HD
SZTYWNOŚĆ OBWODOWA	Sztywność obwodowa zgodnie z DIN 16961, SN24 $\geq$ 16,0 kN/m <sup>2</sup>
ŚREDNICA ZEWNĘTRZNA	200 mm
MINIMALNY PROMIEŃ GIĘCIA	50 cm

#### RURA KARBOWANA ZE STALI NIERDZEWNEJ

MATERIAŁ	Materiał Nr. 1.4404 (AISI 316L)
MAKSYMALNIE DOPUSZCZALNE CIŚNIENIE ROBOCZE W TEMPERATURZE 95 °C	DN 32: 6,5 bar DN 40: 5,8 bar

#### RURA INSTALACJI ELEKTRYCZNEJ 32

ŚREDNICA WEWNĘTRZNA	25 mm (DIN EN 50086): do przewodów sterujących, sensorycznych lub obciążenia elektrycznego
---------------------	--

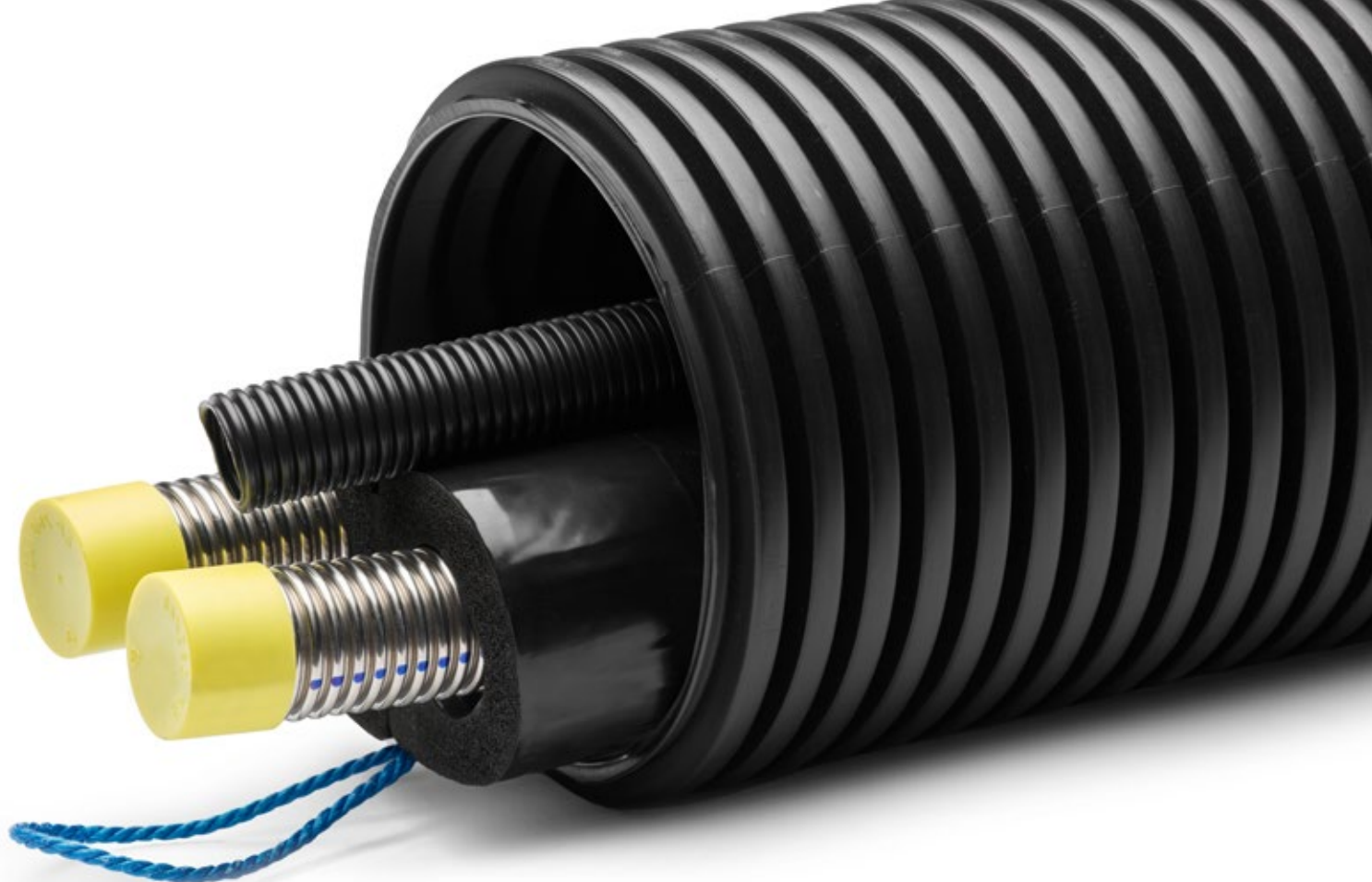
#### IZOLACJA WYKONANA Z EPDM

MATERIAŁ	Lekka, elastyczna guma syntetyczna o zamknięto-komórkowej strukturze. Nie powoduje kruchości rur miedzianych i ze stali nierdzewnej (DIN 1988 część 200) Wymiary i tolerancje zgodnie z DIN EN 14304 DN 32: Dopytyw 25 mm / Odpływ 19 mm DN 40: Dopytyw 19 mm / Odpływ 19 mm
PRZEWODNOŚĆ CIEPLNA	0,036 W/mK w temperaturze 0 °C 0,038 W/mK w temperaturze 40 °C
ODPORNOŚĆ NA OGIEŃ	Euro klasa E (DIN EN 13501-1)

#### DOŁĄCZONE AKCESORIA

POMOC PRZY ZGINANIU	Taśma ułatwiająca wykonanie trwałego łuku
TAŚMA OZNAKOWANIA PRZEWODÓW	Jedna czerwona i jedna żółta taśma ostrzegawcza rodzaju przewodów





**AEROLINE®**

inox terra

Referencja	SAP	m/🚚	RBG	€/m
<b>DN 32</b>				
DN 32, Długość 5 m	3032659	5	AR4	176,69
DN 32, Długość 7,5 m	3032660	7,5	AR4	174,50
DN 32, Długość 10 m	3032661	10	AR4	173,78
DN 32, Długość 12 m	3032662	12	AR4	172,32
DN 32, Długość 14 m	3032663	14	AR4	171,59
DN 32, Długość 17,5 m	3032664	17,5	AR4	170,87
DN 32, Długość 20 m	3032665	20	AR4	170,14
DN 32, Długość 25 m	3032666	25	AR4	169,41
<b>DN 40</b>				
DN 40, Długość 5 m	3032693	5	AR4	210,16
DN 40, Długość 7,5 m	3032694	7,5	AR4	206,53
DN 40, Długość 10 m	3032695	10	AR4	205,80
DN 40, Długość 12 m	3032696	12	AR4	205,07
DN 40, Długość 14 m	3032697	14	AR4	204,34
DN 40, Długość 17,5 m	3032698	17,5	AR4	203,61

Dostawa: 2-7 dni roboczych ex-works (dotyczy wszystkich referencji)



## AKCESORIA – AEROLINE® inox terra



### Zestaw uszczelniający rury osłonowej

Opis				
Do hermetycznego i wodoszczelnego uszczelniania rur osłonowych oraz stałego mocowania rur karbowanych ze stali nierdzewnej. <b>Zawartość:</b> 1 zestaw uszczelnień rur osłonowych ze stali nierdzewnej i gumy EPDM z 5 wymiennymi wkładkami do kabli sterujących i sensorycznych, specyficznych dla danego producenta; 1 pierścień podtrzymujący				
Referencja	SAP	Pcs./	RBG	€/Set
DN 32	3032658	1	AS5	464,27
DN 40	3032692	1	AS5	470,10



### Zestaw przyłączeniowy

Opis				
Do podłączenia do pompy grzewczej i instalacji grzewczej. <b>Zawartość:</b> 1 podwójna złączka 4 uszczelki 4 podkładki zaciskowe 4 nakrętki złączkowe 1 podkładka karoseryjna				
Referencja	SAP	Pcs./	RBG	€/Set
DN 32	3032153	1	AS1	100,22
DN 40	3032154	1	AS1	190,60

## AKCESORIA – AEROLINE® inox terra

3



### Zestaw do uszczelniania murarki

Opis				
Do powietrzno- i wodoszczelnego uszczelnienia rury osłonowej względem muru. Do umieszczenia w odpowiednich wykładzinach rurowych lub otworach rdzeniowych. Wodoszczelny do 1/5 bara w stosunku do wody pod ciśnieniem. <b>Zawartość:</b> Wkładka uszczelniająca ze stali nierdzewnej i gumy EPDM; 5 pierścieni zaciskowych ze stali nierdzewnej do rury osłonowej o średnicy 200 mm (otwór rdzeniowy o średnicy 250 mm).				
Referencja	SAP	Pcs./	RBG	€/Set
DN 32/40	3032583	1	AS5	493,40



### Złączka podwójna

Opis				
1½" x 1½" dla DN 32 / 2" x 2" dla DN 40				
Referencja	SAP	Pcs./	RBG	€/Pcs.
1½" x 1½"	3032929	1	AS1	21,72
2" x 2"	3032930	1	AS1	43,62



### Złączka redukcyjna

Opis				
Gwint zewnętrzny				
Referencja	SAP	Pcs./	RBG	€/Pcs.
1½" x 1¼"	3032969	1	AS1	31,37
2" x 1½"	3032970	1	AS1	36,63



### Część redukcyjna

Opis				
Gwint zewnętrzny / gwint wewnętrzny				
Referencja	SAP	Pcs./	RBG	€/Pcs.
1½" x 1¼"	3032973	1	AS1	29,62
2" x 1½"	3032974	1	AS1	27,87

# AEROLINE®

pex terra

AEROLINE® pex terra oferuje absolutnie przemyślany, prosty i szybki w montażu kompletny system rur do pomp ciepła z przemyślanymi szczegółowymi rozwiązaniami.

## NAJWAŻNIEJSZE W SKRÓCIE:



### PROMIENŃ GIĘCIA

Minimalny promień gięcia 42,5 cm.



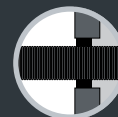
### OSZCZĘDNOŚĆ ENERGII

Zoptymalizowana geometria izolacji i najniższa przewodność cieplna redukują straty ciepła do minimum



### TRANSPORT

Najmniejsze wymiary opakowania.



### USZCZELNIENIE

Optymalna szczelność budynku (wodoszczelność na poziomie 15 m słupa wody).



### OTWÓR WPROWADZANIA KABLA

Integracja specyficznych dla producenta kabli sterujących, kabli sensorycznych i kabli elektrycznych.



# AEROLINE®

pex terra

## ROZWIĄZANIE DLA IDEALNEGO UKŁADU RUR DLA POMP CIEPŁA POWIETRZE/WODA I SOLANKA/WODA W GRUNCIE

### SPECYFIKACJA TECHNICZNA

#### RURA OSŁONOWA

MATERIAŁ	Dwuścienne rura ochronna do kabli wykonana z PE-HD
SZTYWNOŚĆ OBWODOWA	Sztywność obwodowa zgodnie z DIN 16961, SN24 $\geq 16,0$ kN/m <sup>2</sup>
ŚREDNICA ZEWNĘTRZNA	160 mm
MINIMALNY PROMIEŃ GIĘCIA	42,5 cm

#### RURA NOŚNA

MATERIAŁ	PE-Xa
STOPIEŃ SIECIOWANIA	$\geq 70$ % (EN ISO 15875)
GĘSTOŚĆ TLENU	Zgodnie z normą DIN 4726
ZAKRES TEMPERATURY	do 90 °C
MAKSYMALNE DOPUSZCZALNE CIŚNIENIE ROBOCZE PRZY 95 °C	6 bar
COEFFICIENT OF LINEAR EXPANSION	przy 20 °C: $1,4 \cdot 10^{-4}$ 1/k przy 100 °C: $2,05 \cdot 10^{-4}$ 1/k

#### RURA INSTALACJI ELEKTRYCZNEJ 32

ŚREDNICA WEWNĘTRZNA	25 mm (DIN EN 50086): do przewodów sterujących, sensorycznych lub obciążenia elektrycznego
---------------------	---

#### IZOLACJA WYKONANA Z POLIETYLENU

MATERIAŁ	Elastyczna izolacja wykonana ze spienionego polietylenu o zamknięto-komórkowej strukturze, zawierającego minimum 30% materiałów pochodzących z recyklingu Wymiary i tolerancje zgodne z normą DIN EN 14303 PEX 25 / PEX 32: 20 mm PEX 40: 13 mm
PRZEWODNOŚĆ CIEPLNA	0,036 W/mK w temperaturze 0 °C 0,040 W/mK w temperaturze 40 °C
ODPORNOŚĆ NA OGIEŃ	C <sub>1-s1</sub> ,d0 (DIN EN 13501-1)



**AEROLINE®**

pex terra

Referencja	SAP	m/📦	RBG	€/m
<b>PEX 25 x 2,3</b>				
PEX 25, Długość 3 m	3052800	3	AR4	113,61
PEX 25, Długość 5 m	3052801	5	AR4	88,46
PEX 25, Długość 7,5 m	3052802	7,5	AR4	85,43
PEX 25, Długość 10 m	3052803	10	AR4	83,07
PEX 25, Długość 12 m	3052804	12	AR4	82,64
PEX 25, Długość 14 m	3052805	14	AR4	81,70
PEX 25, Długość 17,5 m	3052806	17,5	AR4	81,19
PEX 25, Długość 20 m	3052807	20	AR4	79,90
PEX 25, Długość 25 m	3052808	25	AR4	78,98
<b>PEX 32 x 2,9</b>				
PEX 32, Długość 3 m	3052809	3	AR4	117,03
PEX 32, Długość 5 m	3052810	5	AR4	91,77
PEX 32, Długość 7,5 m	3052811	7,5	AR4	88,70
PEX 32, Długość 10 m	3052812	10	AR4	86,39
PEX 32, Długość 12 m	3052813	12	AR4	85,86
PEX 32, Długość 14 m	3052814	14	AR4	84,98
PEX 32, Długość 17,5 m	3052815	17,5	AR4	84,42
PEX 32, Długość 20 m	3052816	20	AR4	83,85
PEX 32, Długość 25 m	3052817	25	AR4	82,20
<b>PEX 40 x 3,7</b>				
PEX 40, Długość 3 m	3052818	3	AR4	122,41
PEX 40, Długość 5 m	3052819	5	AR4	96,97
PEX 40, Długość 7,5 m	3052820	7,5	AR4	93,94
PEX 40, Długość 10 m	3052821	10	AR4	91,49
PEX 40, Długość 12 m	3052822	12	AR4	91,01
PEX 40, Długość 14 m	3052823	14	AR4	90,60
PEX 40, Długość 17,5 m	3052824	17,5	AR4	89,61
PEX 40, Długość 20 m	3052825	20	AR4	88,97
PEX 40, Długość 25 m	3052826	25	AR4	87,30

Dostawa: 2-7 dni roboczych ex-works (dotyczy wszystkich referencji)

## AKCESORIA – AEROLINE® pex terra



1



### Gumowa zaślepka

Opis				
Zapewniająca czyste zamknięcie rury osłonowej.				
Referencja	SAP	Pcs./	RBG	€/Pcs.
PEX 25 x 2,3 / PEX 32 x 2,9 / PEX 40 x 3,7	3053269	1	AS5	42,64

2



### Złącze z gwintem zewnętrznym

Opis				
PEX 25 x 1"	PEX 32 x 1"	PEX 40 x 1 1/4"		
Referencja	SAP	Pcs./	RBG	€/Pcs.
PEX 25 x 2,3	3053320	1	AS1	43,58
PEX 32 x 2,9	3046537	1	AS1	37,23
PEX 40 x 3,7	3053321	1	AS1	39,25

## AKCESORIA – AEROLINE® pex terra

3



### Zestaw do uszczelniania murarki

#### Opis

Do powietrzno- i wodoszczelnego uszczelnienia rury osłonowej względem muru. Do umieszczenia w odpowiednich wykładzinach rurowych lub otworach rdzeniowych. Wodoszczelny do 1/5 bara w stosunku do wody pod ciśnieniem. **Zawartość:** Wkładka uszczelniająca ze stali nierdzewnej i gumy EPDM; 5 pierścieni zaciskowych ze stali nierdzewnej do rury osłonowej o średnicy 160 mm (otwór rdzeniowy o średnicy 200 mm).

Referencja	SAP	Pcs./📦	RBG	€/Set
PEX 25 x 2,3 / PEX 32 x 2,9 / PEX 40 x 3,7	3032582	1	AS5	464,27

4



### Zacisk punktowy

#### Opis

Rury nośne PE-Xa podlegają termicznym zmianom długości. Należy ustawić punkty stałe, aby uniknąć możliwego wpływu skurczu/rozszerzania termicznego na dalszą instalację. Praktyczny podwójny zacisk umożliwia regulację przepływu i powrotu za pomocą jednego zacisku.

Referencja	SAP	Pcs./📦	RBG	€/Pcs.
PEX 25 x 2,3	3053322	1	AS5	131,25
PEX 32 x 2,9	3046320	1	AS5	131,84
PEX 40 x 3,7	3053323	1	AS5	132,48

### Element przejściowy

#### Opis

Do gwintów zewnętrznych i wewnętrznych

Referencja	SAP	Pcs./📦	RBG	€/Pcs.
1"FT x 1¼"MT	3032967	1	AS1	16,55
1¼"FT x 1½"MT	3032973	1	AS1	29,62





## AKCESORIA – AEROLINE® pex terra



### Pomoc przy zginaniu

Opis				
Taśma do wykonania trwałego zagięcia				
Referencja	SAP	Pcs./	RBG	€/Pcs.
PEX 25 x 2,3 / PEX 32 x 2,9 / PEX 40 x 3,7	3036424	1	AS5	13,91



### Pojemnik z pianką natryskową

Opis				
Pianka natryskowa do wypełniania pianą rury osłonowej				
Referencja	SAP	Pcs./	RBG	€/Pcs.
750 ml	3036428	1	AS5	29,44



### Taśma ostrzegawcza trasy

Opis				
Czerwona i żółta taśma ostrzegawcza w 3 różnych długościach				
Referencja	SAP	Pcs./	RBG	€/Set
11 m	3036406	1	AS5	10,83
20 m	3036407	1	AS5	15,26
25 m	3036408	1	AS5	17,61

# AEROLINE®

pex pro gs

DO INSTALOWANYCH NA ZEWNĄTRZ POMP CIEPŁA POWIETRZE/  
WODA, DO PRZEWODÓW PODZIEMNYCH PRZY BUDYNKU

## SPECYFIKACJA TECHNICZNA

### OTULINA

MATERIAŁ Siatka poliestrowa

### RURY NOŚNE

MATERIAŁ usieciowany PE-Xa  
STOPIEŃ SIECIOWANIA  $\geq 70\%$  (EN ISO 15875)  
GĘSTOŚĆ TLENU Zgodnie z normą DIN 4726  
MAKSYMALNE DOPUSZCZALNE CIŚNIENIE ROBOCZE PRZY 95 °C 6 bar

### RURY INSTALACJI ELEKTRYCZNEJ

32 Średnica wewnętrzna 25 mm  
20 Średnica wewnętrzna 14 mm

### IZOLACJA WYKONANA Z POLIETYLENU

MATERIAŁ Elastyczna izolacja wykonana ze spienionego polietylenu o zamknięto-komórkowej strukturze, zawierającego minimum 30% materiałów pochodzących z recyklingu  
PEX 25 / PEX 32: 20 mm  
PEX 40: 13 mm  
PRZEWODNOŚĆ CIEPLNA 0,036 W/mK w temperaturze 0 °C  
0,040 W/mK w temperaturze 40 °C  
ODPORNOŚĆ NA OGIEŃ C<sub>t</sub>-s1,d0 (DIN EN 13501-1)



**AEROLINE®**

pex pro gs

Referencja	SAP	m/📦	RBG	€/m
<b>PEX 25 x 2,3</b>				
PEX 25, Długość 3 m	3053037	3	AR4	86,29
PEX 25, Długość 5 m	3053038	5	AR4	78,93
PEX 25, Długość 7,5 m	3053039	7,5	AR4	75,57
PEX 25, Długość 10 m	3053040	10	AR4	72,34
PEX 25, Długość 12 m	3053041	12	AR4	69,12
PEX 25, Długość 14 m	3053042	14	AR4	65,99
PEX 25, Długość 17,5 m	3053043	17,5	AR4	62,82
PEX 25, Długość 20 m	3053045	20	AR4	62,19
PEX 25, Długość 25 m	3053046	25	AR4	61,85
<b>PEX 32 x 2,9</b>				
PEX 32, Długość 3 m	3053047	3	AR4	89,56
PEX 32, Długość 5 m	3053048	5	AR4	82,15
PEX 32, Długość 7,5 m	3053049	7,5	AR4	78,74
PEX 32, Długość 10 m	3053050	10	AR4	75,47
PEX 32, Długość 12 m	3053051	12	AR4	72,29
PEX 32, Długość 14 m	3053053	14	AR4	69,12
PEX 32, Długość 17,5 m	3053054	17,5	AR4	65,96
PEX 32, Długość 20 m	3053055	20	AR4	65,85
PEX 32, Długość 25 m	3053056	25	AR4	65,30
<b>PEX 40 x 3,7</b>				
PEX 40, Długość 3 m	3053057	3	AR4	95,29
PEX 40, Długość 5 m	3053058	5	AR4	87,69
PEX 40, Długość 7,5 m	3053059	7,5	AR4	84,22
PEX 40, Długość 10 m	3053060	10	AR4	80,90
PEX 40, Długość 12 m	3053061	12	AR4	77,73
PEX 40, Długość 14 m	3053062	14	AR4	74,51
PEX 40, Długość 17,5 m	3053063	17,5	AR4	71,34
PEX 40, Długość 20 m	3053064	20	AR4	71,24
PEX 40, Długość 25 m	3053065	25	AR4	70,95

Dostawa: 2-7 dni roboczych ex-works (dotyczy wszystkich referencji)

# AEROLINE®

inox pro gs

DO INSTALOWANYCH NA ZEWNĄTRZ POMP CIEPŁA POWIETRZE/  
WODA, DO PRZEWODÓW PODZIEMNYCH PRZY BUDYNKU

## SPECYFIKACJA TECHNICZNA

### OTULINA

MATERIAŁ	Siatka poliestrowa
ODPORNOŚĆ NA PROMIENIOWANIE UV	Znakomita
ODPORNOŚĆ NA OZON	Znakomita

### RURA KARBOWANA ZE STALI NIERDZEWNEJ

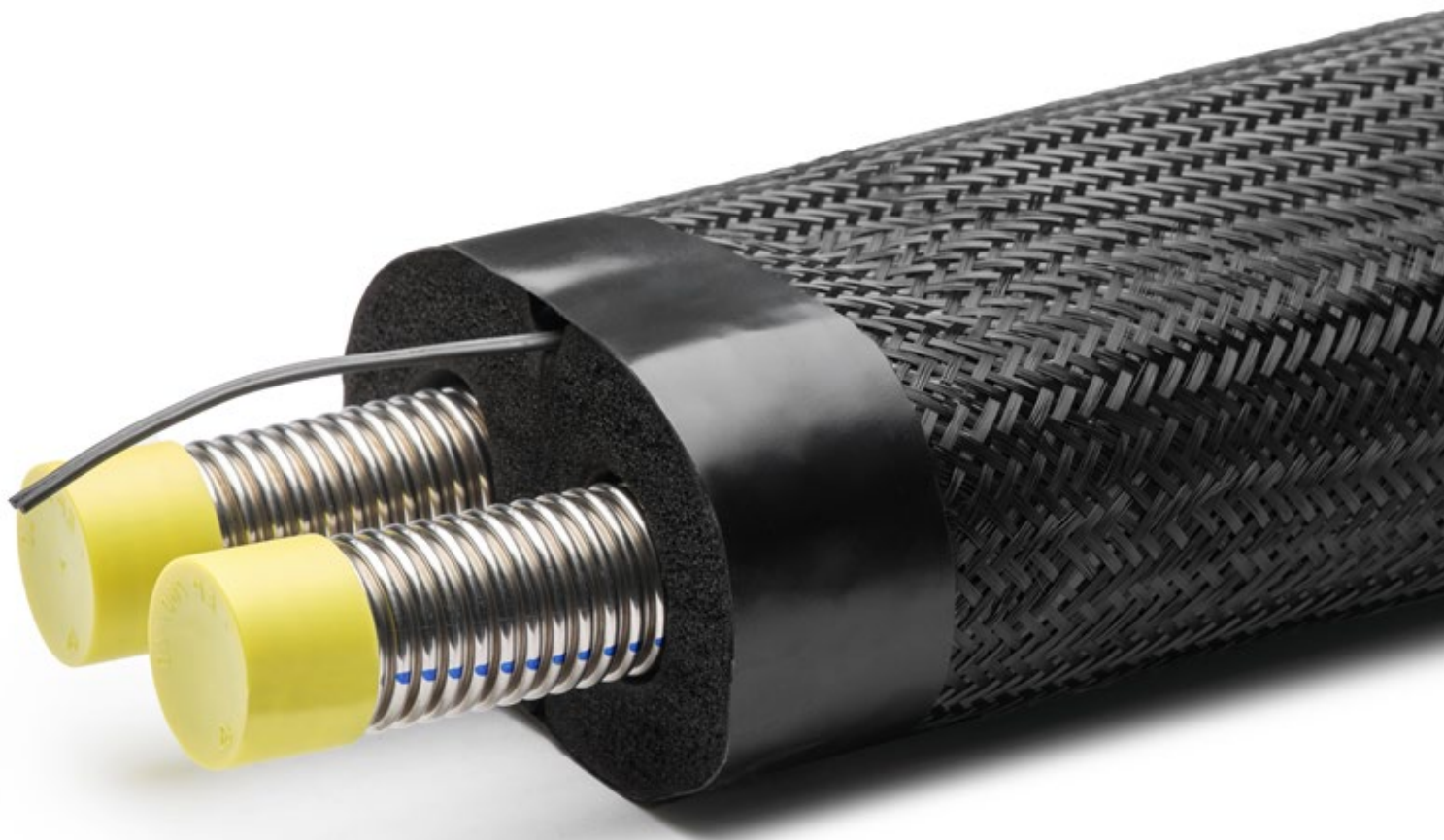
MATERIAŁ	Materiał Nr. 1.4404 (AISI 316L)
MAKSYMALNE DOPUSZCZALNE CIŚNIENIE ROBOCZE PRZY 95 °C	DN 25: 12 bar DN 32: 6,5 bar

### KABEL SENSORYCZNY

inox pro gs DN 32	2 x 0,75 mm <sup>2</sup> VDE 7507
inox pro gs DN 25	3 x 0,75 mm <sup>2</sup> VDE 0295, Silikon, Klasa 5

### IZOLACJA WYKONANA Z EPDM

MATERIAŁ	Lekka, elastyczna guma syntetyczna o zamknięto-komórkowej strukturze. Nie powoduje kruchości rur miedzianych i ze stali nierdzewnej (DIN 1988 część 200) Wymiary i tolerancje zgodnie z DIN EN 14304
PRZEWODNOŚĆ CIEPLNA	0,036 W/mK w temperaturze 0 °C 0,038 W/mK w temperaturze 40 °C
ODPORNOŚĆ NA OGIEŃ	Euro klasa E (DIN EN 13501-1)



**AEROLINE®** | inox progs

Referencja	SAP	m/📦	RBG	€/m
<b>DN 25</b>				
25 x 25/10 m	3032769	10	AR2	95,18
25 x 25/15 m	3032770	15	AR2	94,46
25 x 25/20 m	3032771	20	AR2	93,73
25 x 25/25 m	3032772	25	AR2	93,00
25 x 25/50 m	3032773	50	AR2	92,27
<b>DN 32</b>				
32 x 25/10 m	3032774	10	AR2	157,04
32 x 25/15 m	3032776	15	AR2	155,58
32 x 25/20 m	3032777	20	AR2	154,86
32 x 25/25 m	3032778	25	AR2	154,13

Dostawa: 2-7 dni roboczych ex-works (dotyczy wszystkich referencji)

# AEROLINE®

## inox connect 200

ZESTAWY PRZYŁĄCZENIOWE DO POMP CIEPŁA INSTALOWANYCH  
BLISKO ŚCIANY, DLA LINII DYSTRYBUCJI CIEPŁA WYSTAWIONYCH  
NA DZIAŁANIE ZEWNĘTRZNYCH WARUNKÓW ATMOSFERYCZNYCH

### SPECYFIKACJA TECHNICZNA

#### OTULINA

MATERIAŁ	Dodatkowa izolacja EPDM z zabezpieczeniem powierzchni
ODPORNOŚĆ NA PROMIENIOWANIE UV	Znakomita
ODPORNOŚĆ NA OZON	Znakomita

#### RURA KARBOWANA ZE STALI NIERDZEWNEJ

MATERIAŁ	Materiał Nr. 1.4404 (AISI 316L)
MAKSYMALNE DOPUSZCZALNE CIŚNIENIE ROBOCZE PRZY 95 °C	DN 25: 12 bar DN 32: 6,5 bar

#### IZOLACJA WYKONANA Z EPDM

MATERIAŁ	Lekka, elastyczna guma syntetyczna o zamknięto-komórkowej strukturze. Nie powoduje kruchości rur miedzianych i ze stali nierdzewnej (DIN 1988 część 200) Wymiary i tolerancje zgodnie z DIN EN 14304
PRZEWODNOŚĆ CIEPLNA	0,036 W/mK w temperaturze 0 °C 0,038 W/mK w temperaturze 40 °C
ODPORNOŚĆ NA OGIEŃ	Euro klasa E (DIN EN 13501-1)



**AEROLINE®**

inox connect 200

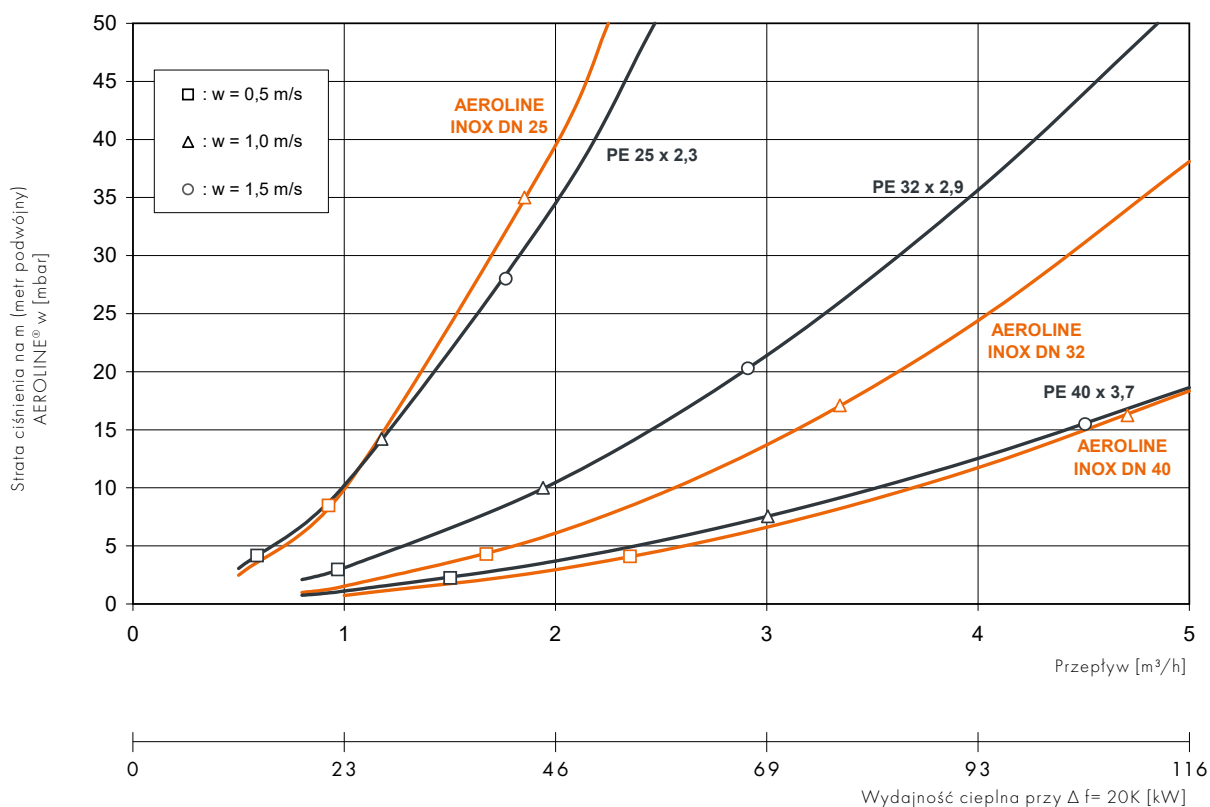
Referencja	SAP	m/📦	RBG	€/set
<b>DN 25</b>				
25 x 76/1 m	3053309	2	AR4	233,00
25 x 76/1,3 m	3053310	2,6	AR4	283,36
<b>DN 32</b>				
32 x 76/1 m	3053311	2	AR4	283,84
32 x 76/1,3 m	3053312	2,6	AR4	323,52



Dostawa: 2-7 dni roboczych ex-works (dotyczy wszystkich referencji)

# STRATY CIŚNIENIA

Wykresy odnoszą się do 1 podwójnego metra prosto ułożonej rury i wody o temperaturze 10 °C



## Względny współczynnik utraty ciśnienia<sup>1</sup> dla różnych temperatur i mieszanin

Średnia temperatura	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C
Współczynnik straty ciśnienia dla wody	1,04	1	0,97	0,94	0,91	0,89	0,86	0,83	0,82	0,8
Współczynnik straty ciśnienia dla wody – mieszanka Tyfocor L 70/30	1,44	1,37	1,3	1,24	1,19	1,15	1,1	1,06	1,03	1

<sup>1</sup>Źródło: Tyforop Chemie



**AEROLINE®**

inox rapid



# AEROLINE®

inox rapid classic

**SYSTEM RUROWY DO PODŁĄCZENIA POMP CIEPŁA POWIETRZE/WODA  
ZAINSTALOWANYCH BLISKO ŚCIANY NA ZEWNĄTRZ ORAZ DO DYSTRYBUCJI  
SOLANKI LUB WODY WEWNĄTRZ**

## SPECYFIKACJA TECHNICZNA

### OTULINA

MATERIAŁ Folia poliolefinowa

### RURA KARBOWANA ZE STALI NIERDZEWNEJ

MATERIAŁ Materiał Nr. 1.4404 (AISI 316L)

MAKSYMALNE DOPUSZCZALNE CIŚNIENIE ROBOCZE PRZY 95 °C  
DN 25: 12 bar  
DN 32: 6,5 bar  
DN 40: 5,8 bar

MINIMALNY PROMIĘŃ GIĘCIA 60 mm (DN 25) lub 55 mm (DN 32 / DN 40)

### IZOLACJA WYKONANA Z EPDM

MATERIAŁ Lekka, elastyczna guma syntetyczna o zamknięto-komórkowej strukturze. Nie powoduje kruchości rur miedzianych i ze stali nierdzewnej (DIN 1988 część 200) Wymiary i tolerancje zgodnie z DIN EN 14304

PRZEWODNOŚĆ CIEPLNA 0,036 W/mK w temperaturze 0 °C  
0,038 W/mK w temperaturze 40 °C

ODPORNOŚĆ NA OGIEŃ Euro klasa E (DIN EN 13501-1)

ZAKRES TEMPERATUR (EN 14707) +150 °C (krótkoterminowo do +175 °C)



**AEROLINE®** | inox rapid classic

Referencia	SAP	m/📦	RBG	€/m
<b>DN 25</b>				
25 x 19 / 5 m	3053313	5	AR3	41,54
25 x 19 / 10 m	3032616	10	AR3	38,42
25 x 19 / 25 m	3032618	25	AR3	34,78
25 x 19 / 50 m	3032619	50	AR3	34,78
<b>DN 32</b>				
32 x 19 / 5 m	3053314	5	AR3	56,26
32 x 19 / 10 m	3032651	10	AR3	53,12
32 x 19 / 25 m	3032654	25	AR3	49,34
<b>DN 40</b>				
40 x 25 / 5 m	3053315	5	AR3	81,04
40 x 25 / 10 m	3032688	10	AR3	78,59
40 x 25 / 25 m	3032689	25	AR3	75,97

# AEROLINE®

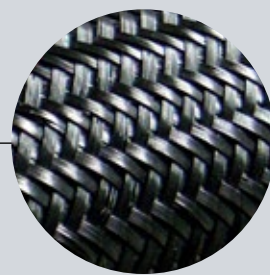
inox rapid progs

SYSTEM RUROWY DO PODŁĄCZENIA POMP CIEPŁA POWIETRZE/  
WODA ZAINSTALOWANYCH BLISKO ŚCIANY NA ZEWNĄTRZ ORAZ  
DO DYSTRYBUCJI SOLANKI LUB WODY WEWNĄTRZ

## SPECYFIKACJA TECHNICZNA

### OTULINA

MATERIAŁ	Polyester braid
ODPORNOŚĆ NA PROMIENIOWANIE UV	Znakomita
ODPORNOŚĆ NA OZON	Znakomita



### RURA KARBOWANA ZE STALI NIERDZEWNEJ

MATERIAŁ	Materiał Nr. 1.4404 (AISI 316L)
MAKSYMALNE DOPUSZCZALNE CIŚNIENIE ROBOCZE PRZY 95 °C	DN 25: 12 bar DN 32: 6,5 bar DN 40: 5,8 bar

### IZOLACJA WYKONANA Z EPDM

MATERIAŁ	Lekka, elastyczna guma syntetyczna o zamknięto-komórkowej strukturze. Nie powoduje kruchości rur miedzianych i ze stali nierdzewnej (DIN 1988 część 200) Wymiary i tolerancje zgodnie z DIN EN 14304
PRZEWODNOŚĆ CIEPLNA	0,036 W/mK w temperaturze 0 °C 0,038 W/mK w temperaturze 40 °C
ODPORNOŚĆ NA OGIEŃ	Euro Klasa E (DIN EN 13501-1)
ZAKRES TEMPERATUR (EN 14707)	+150 °C (krótkoterminowo do +175 °C)



**AEROLINE®** | inox rapid progs

Referencia	SAP	m/📦	RBG	€/m
<b>DN 25</b>				
25 x 19 / 5 m	3053138	5	AR3	57,23
25 x 19 / 10 m	3032250	10	AR3	53,70
25 x 19 / 25 m	3032251	25	AR3	52,25
25 x 38 / 5 m	3053316	5	AR3	94,61
25 x 38 / 10 m	3032253	10	AR3	94,46
25 x 38 / 25 m	3032254	25	AR3	93,00
<b>DN 32</b>				
32 x 19 / 5 m	3053317	5	AR3	77,34
32 x 19 / 10 m	3032255	10	AR3	76,99
32 x 19 / 25 m	3032256	25	AR3	76,26
32 x 38 / 5 m	3053318	5	AR3	106,24
32 x 38 / 10 m	3032257	10	AR3	106,10
32 x 38 / 25 m	3032258	25	AR3	104,65
<b>DN 40</b>				
40 x 25 / 5 m	3053319	5	AR3	99,28
40 x 25 / 10 m	3032259	10	AR3	98,82
40 x 25 / 25 m	3032260	25	AR3	97,37

## AKCESORIA – AEROLINE® inox rapid pro gs



### Klamry montażowe

Referencja	Opis	SAP	Pcs./📦	RBG	€/Set
Ø 85 mm dot. DN 32-19 mm	4 klamer montażowych 4 śruby wieszakowe M8 x 80 4 kołki rozporowe S10	3035469	1	AS2	19,33
Ø 110 mm dot. DN 25-38 mm/ DN 40-25 mm	4 klamer montażowych 4 śruby wieszakowe M8 x 80 4 kołki rozporowe S10	3032268	1	AS2	27,16
Ø 126 mm dot. DN 32-38 mm	4 klamer montażowych 4 śruby wieszakowe M8 x 80 4 kołki rozporowe S10	3052372	1	AS2	34,00

Dostawa: 2-7 dni roboczych ex-works (dotyczy wszystkich referencji)

# AEROLINE®

inox rapid basic

WYSOKIEJ JAKOŚCI RURA KARBOWANA ZE STALI NIERDZEWNEJ.  
MOŻLIWOŚĆ ZGINANIA BEZ ZAŁAMAŃ!

## SPECYFIKACJA TECHNICZNA

### RURA KARBOWANA ZE STALI NIERDZEWNEJ

MATERIAŁ	Materiał Nr. 1.4404 (AISI 316L)
MAKSYMALNE DOPUSZCZALNE CIŚNIENIE ROBOCZE PRZY 95 °C	DN 25: 12 bar DN 32: 6,5 bar DN 40: 5,8 bar
CIŚNIENIE ROZRYWAJĄCE	DN 32/ DN 40 większe niż 20 bar
ZAKRES TEMPERATUR (EN 14707)	-270 °C do +600 °C
PROFIL KARBOWANIA	DN 16-25: płaski



DN 32-40: wysoki



Referencja	SAP	m/📦	RBG	€/m
<b>DN 25</b>				
DN 25, 15 m	3032216	15	AR3	24,01
DN 25, 25 m	3032217	25	AR3	22,12
DN 25, 50 m	3032218	50	AR3	21,54
<b>DN 32</b>				
DN 32, 14 m	3032219	14	AR3	35,37
DN 32, 25 m	3032221	25	AR3	34,52
DN 32, 50 m	3032222	50	AR3	33,18
<b>DN 40</b>				
DN 40, 14 m	3032224	14	AR3	51,38
DN 40, 25 m	3032225	25	AR3	50,21

## AKCESORIA – AEROLINE® inox rapid basic

### Klamry montażowe



Referencja	Opis	SAP	Pcs./📦	RBG	€/Set
DN 25	4 klamer montażowych	3032229	1	AS2	17,15
	4 śruby wieszakowe M8 x 80				
	4 kołki rozporowe S10				
DN 32	4 klamer montażowych	3032230	1	AS2	17,64
	4 śruby wieszakowe M8 x 80				
	4 kołki rozporowe S10				
DN 40	4 klamer montażowych	3032231	1	AS2	20,87
	4 śruby wieszakowe M8 x 80				
	4 kołki rozporowe S10				

Dostawa: 2-7 dni roboczych ex-works (dotyczy wszystkich referencji)





# GENERAL TERMS AND CONDITIONS OF SALE AND TRADING

## 1. INTERPRETATION

1.1 In these Conditions, 'BUYER' means the person who accepts a quotation of the Company for the sale of the Goods or whose order for the Goods is accepted by the Company. 'GOODS' means the goods (including any instalment of the goods or any parts for them) which the Company is to supply in accordance with these Conditions. 'COMPANY' means nmc (uk) ltd and its subsidiaries. 'CONDITIONS' means the standard terms and conditions of sale set out in this document and (unless the context otherwise requires) includes any special terms and conditions agreed in Writing between the Buyer and the Company. 'CONTRACT' means the contract for the purchase and sale of the Goods. 'WRITING' includes telex, cable, facsimile transmissions and comparable means of communication.

1.2 Any Reference in these Conditions to any provision of a statute shall be construed as a Reference to that provision as amended, re-enacted or extended at the relevant time.

1.3 The headings in these Conditions are for convenience only and shall not affect their interpretation.

## 2. BASIS OF THE SALE

2.1 The Company shall sell and the Buyer shall purchase the Goods in accordance with any written quotation of the Company which is accepted by the Buyer or any written order of the Buyer which is accepted by the Company, subject in either case to these Conditions, which shall govern the Contract to the exclusion of any other terms and conditions subject to which any such quotation is accepted or purported to be accepted, or any such order is made or purported to be made, by the Buyer.

2.2 No variation to these Conditions shall be binding unless agreed in Writing between the authorised representatives of the Buyer and the Company.

2.3 The Company's employees or agents are not authorised to make any representations concerning the Goods unless confirmed by the Company in Writing. In entering into the Contract the Buyer acknowledges that it does not rely on and waives any claims for breach of any such representations which are not so confirmed.

2.4 Any advice or recommendation given by the Company or its employees or agents to the Buyer or its employees or agents as to the storage, application or use of the Goods which is not confirmed in Writing by the Company is followed or acted upon entirely at the Buyer's own risk, and accordingly the Company shall not be liable for any such advice or recommendation which is not so confirmed.

2.5 Any typographical, clerical or other error or omission in any sales literature, quotation, price list, acceptance of offer, invoice or other document or information issued by the Company shall be subject to correction without any liability on the part of the Company.

## 3. ORDERS AND SPECIFICATIONS

3.1 No order submitted by the Buyer shall be deemed to be accepted by the Company unless and until confirmed in Writing by the Company's authorised representative.

3.2 The Buyer shall be responsible to the Company for ensuring the accuracy of the terms of any order (including any applicable specification) submitted by the Buyer, and for giving the Company any necessary information relating to the Goods within sufficient time to enable the Company to perform the Contract in accordance with its terms.

3.3 The quantity, quality and type of any specification for the Goods shall be those set out in the Company's quotation (if accepted by the Buyer) or the Buyer's order (if accepted by the Company).

3.4 If the goods are to be manufactured or any process to be applied to the Goods by the Company in accordance with a specification submitted by the Buyer, the Buyer shall indemnify the Company against all loss, damages, costs and expenses awarded against or incurred by the Company in connection with or paid or agreed to be paid by the Company in settlement of any claim for infringement of any patent, copyright, design, trade mark or other industrial or intellectual property rights of any other person which results from the Company's use of the Buyer's specification.

3.5 The Company reserves the right to make any changes in the specification of the Goods which are required to conform with any applicable safety or other statutory or EC requirements or, where the Goods are to be supplied to the Company's specification, which do not materially affect their quality or performance.

3.6 No order which has been accepted by the Company may be cancelled by the Buyer except with the agreement in Writing of the Company and on terms that the Buyer shall indemnify the Company in full against all loss (including loss of profit), costs (including the cost of all labour and Material used), damages, charges and expenses incurred by the Company as a result of cancellation.

3.7 All stated dimensions and weights relating to the Goods are approximate only.

## 4. HEALTH & SAFETY

The Buyer agrees as follows:

4.1 to pay due regard to all information supplied by the Company relating to the use of the Goods and/or concerning conditions necessary to ensure the Goods will be safe and without risk to health at all times when they are being used or maintained by any person at work;

4.2 to comply with the General Products Safety Regulations 1994 if and to the extent that they are applicable to the Goods;

4.3 to indemnify the Company in respect of any and all claims arising from the Goods being unsafe as a result of the Buyer's activities;

4.4 to monitor the safety of the Goods, to pass on to the Company any information as to the risks of the Goods and to co-operate in any action the Company decides to take to avoid those risks, and

4.5 to keep records of the customers to whom the Goods are sold and to provide the Company with copies of them as and when requested.

## 5. PRICE OF THE GOODS

5.1 The price of the Goods shall be the Company's quoted price or, where no price has been quoted (or a quoted price is no longer valid), the price listed in the Company's published price list current at the date of acceptance of the order. Where the Goods are supplied for export from the United Kingdom, the Company's published export price list shall apply. All prices quoted are valid for 30 days only unless earlier acceptance by the Buyer, after which time they may be altered by the Company without giving notice to the Buyer.

5.2 The Company reserves the right by giving notice to the Buyer at any time before delivery, to increase the price of the Goods to reflect any increase in the cost to the Company which is due to any factor beyond the control of the Company (such as, without limitation, any of foreign exchange fluctuation, currency regulation, alteration of duties, significant increases in the costs of labour, Material or other costs of manufacture), any change in delivery dates, quantities or specifications for the Goods which is required by the Buyer, or any delay caused by any instructions of the Buyer or failure of the Buyer to give the Company adequate information or instructions.

5.3 Except as otherwise provided in any quotation or in any price list of the Company, and unless otherwise agreed in Writing between the Buyer and the Company, all prices are given by the Company on an ex works basis, and where the Company agrees to deliver the Goods to the Buyer's premises or such other address as the Buyer may direct, the Buyer shall be liable to pay the Company's charges for transport, packaging and insurance.

5.4 The price of the Goods is exclusive of any applicable value added tax, which the Buyer shall be additionally liable to pay to the Company.

5.5 The cost of pallets and returnable containers will be charged to the Buyer in addition to the price of the Goods, but full credit will be given to the Buyer provided they are returned undamaged to the Company before the due payment date.

5.6 For any order for delivery to any place where the net order value is less than £150,000 a charge of £250.00 will be added to cover carriage and administrative charges.

## 6. TERMS OF PAYMENT

6.1 Subject to any special terms agreed in Writing between the Buyer and the Company, the Company shall be entitled to invoice the Buyer for the price of the Goods on or at any time after delivery of the Goods, unless the Goods are to be collected by the Buyer or the Buyer wrongfully fails to take delivery of the Goods, in which event the Company shall be entitled to invoice the Buyer for the price at any time after the Company has notified the Buyer that the Goods are ready for collection or (as the case may be) the Company has tendered delivery of the Goods.

6.2 The Buyer shall pay the price of the Goods within 30 days of the date of the Company's invoice or within such other period as the Company shall agree in Writing and the Company shall be entitled to recover the price, notwithstanding that delivery may not have taken place and the property in the Goods has not passed to the Buyer. The time of payment of the price shall be of the essence of the Contract. Receipts for payment will be issued only upon request.

6.3 If the Buyer fails to make any payment before or on the due date then, without prejudice to any other right or remedy available to the Company, the Company shall be entitled to:

6.3.1 cancel the contract or suspend any further deliveries to the Buyer;

6.3.2 appropriate any payment made by the Buyer to the Goods (or the goods supplied under any other contract between the Buyer and the Company) as the Company may think fit (notwithstanding any purported appropriation by the Buyer); and

6.3.3 charge the Buyer interest (both before and after any judgment) on the amount unpaid at the rate of five per cent per annum above National Westminster Bank Plc base rate from time to time for the period of 30 days after the date of the relevant invoice until payment in full is made (in part or a month being treated as a full month for the purpose of calculating interest).

## 7. DELIVERY

7.1 Delivery of the Goods shall be made by the Company delivering the Goods to the Buyer's premises or some other place for delivery as notified in Writing by the Buyer to the Company or by the Buyer collecting the Goods at the Company's premises.

7.2 Any dates quoted for delivery of the Goods are approximate only and the Company shall not be liable for any delay in delivery of the Goods howsoever caused. Time for delivery shall not be of the essence of the Contract unless previously agreed by the Buyer in Writing. The Goods may be delivered by the Company in advance of the quoted delivery date upon giving reasonable notice to the Buyer.

7.3 Where the Goods are to be delivered in instalments, each delivery shall constitute a separate contract and failure by the Company to deliver any one or more of the instalments in accordance with these Conditions or any claim by the Buyer in respect of any one or more instalments shall not entitle the Buyer to treat the Contract as a whole as repudiated.

7.4 If the Company fails to deliver the Goods for any reason other than any cause beyond the Company's reasonable control or the Buyer's fault, and the Company is accordingly liable to the Buyer, the Company's liability shall be limited to the excess (if any) of the cost to the Buyer (in the cheapest available market) of similar goods to replace those not delivered over the price of the Goods.

7.5 If the Buyer fails to take delivery of the Goods or fails to give the Company adequate delivery instructions at the time stated for delivery (otherwise than by reason of any cause beyond the Buyer's reasonable control or by reason of the Company's fault) then, without prejudice to any other right or remedy available to the Company, the Company may:

7.5.1 store the Goods until actual delivery and charge the Buyer for the reasonable costs (including insurance) of storage; or

7.5.2 sell the Goods at the best price readily obtainable and (after deducting all reasonable storage and selling expenses) account to the Buyer for the excess over the price under the Contract or charge the Buyer for any shortfall below the price under the Contract.

7.6 The Buyer may only return the Goods or any part thereof at the discretion of the Company and upon the prior authority in Writing being given by a duly authorised employee of the Company being of no less than senior managerial status. In any event, only Goods in perfect condition packed in full cartons may be returned. All Goods returned will be at the Buyer's risk and expense and in addition the Buyer shall pay a charge of 15% of the net invoice value of the Goods despatched under the relevant order to reimburse the Company for any costs and expenses incurred.

7.7 Notwithstanding any authority to return the Goods given pursuant to clause 6.6, following receipt of returned Goods pursuant to clause 7.6 the Company shall within 10 working days notify the Buyer in Writing of any of the Goods it deems unsaleable and shall thereafter return such Goods to the Buyer at the Buyer's sole expense.

## 8. RISK AND PROPERTY

8.1 Risk of damage to or loss of the Goods shall pass to the Buyer:

8.1.1 in the case of Goods to be delivered at the Company's premises, at the time when the Company notifies the Buyer that the Goods are available for collection or

8.1.2 in the case of Goods to be delivered otherwise than at the Company's premises, at the time of delivery or, if the Buyer wrongfully fails to take delivery of the Goods, the time when the Buyer has tendered delivery of the Goods.

8.2 Notwithstanding delivery and the passing of risk in the Goods, or any other provision of these Conditions, the property in the Goods shall not pass to the Buyer until the Company has received in cash or cleared funds payment in full of the price of the Goods and all other goods agreed to be sold by the Company to the Buyer for which payment is due.

8.3 Until such time as the property in the Goods passes to the Buyer, the Buyer shall hold the Goods as the Company's fiduciary agent and bailee, and shall keep the Goods separate from those of the Buyer and third parties and, protected and insured and identified as the Company's property. Until that time the Buyer shall be entitled to sell or use the Goods in the ordinary course of its business, but shall account to the Company for the proceeds of sale or otherwise of the Goods, whether tangible or intangible, including insurance proceeds, and shall keep all such proceeds separate from any moneys or property of the Buyer and third parties and, in the case of tangible proceeds, properly stored, protected and insured.

8.4 Until such time as the property in the Goods passes to the Buyer (and provided the Goods are still in existence and have not been resold), the Company shall be entitled at any time to require the Buyer to deliver up the Goods to the Company and, if the Buyer fails to do so forthwith, to enter upon any premises of the

Buyer or any third party where the Goods are stored and repossess the Goods.

8.5 If the Goods are incorporated into other products the property in those other products is upon such incorporation (as facta transferred) to the Company and the Buyer is bailee of them for the Company will store the same for the Company in a proper manner without charge to the Company.

8.6 The Buyer shall not be entitled for its pledge or in any way charge by way of security for any indebtedness any of the Goods which remain the property of the Company, but if the Buyer does so all moneys owing by the Buyer to the Company shall (without prejudice to any other right or remedy of the Company) forthwith become due and payable.

8.7 The title in the goods shall pass to the Buyer only when payment in full has been received by the Seller for all goods whatsoever supplied (and all services rendered) up to the time by the Seller to the Buyer. The Buyer shall permit the servants or agents of the Seller to enter on to the Buyer's premises and repossess the goods at any time prior thereto. As long as payment has not been affected the Buyer cannot sell, pledge or offer goods as guarantee or collateral security. Should the goods (or any of them) be converted into a new product, whether or not such conversion involves the admixture of any other goods or thing whatsoever and in whatever proportions, the conversion shall be deemed to have been effected on behalf of the Seller and the Seller shall have full legal and beneficial ownership of the new products, but without accepting any liability whatsoever in respect of such converted goods in relation to any third party, and the Buyer hereby indemnifies the Seller in relation thereto. In the case of non-payment at the due date and upon demand the Buyer must return forthwith to the Seller all merchandise consigned for.

## 9. WARRANTIES AND LIABILITY

9.1 Subject to the conditions set out below the Company warrants that the Goods will correspond with their specification at the time of delivery.

9.2 The above warranty is given by the Company subject to the following conditions:

9.2.1 the Company shall be under no liability in respect of any defect in the Goods arising from any drawing, design or specification supplied by the Buyer;

9.2.2 the Company shall be under no liability in respect of any defect arising from fair wear and tear, willful damage, negligence, abnormal working conditions, failure to follow the Company's instructions (whether oral or in writing), misuse or alteration or repair of the Goods without the Company's approval;

9.2.3 the Company shall be under no liability under the above warranty (or any other warranty, condition or guarantee) if the total price for the Goods has not been paid by the due date for payment;

9.2.4 the above warranty does not extend to parts, Material or equipment not manufactured by the Company, in respect of which the Buyer shall only be entitled to the benefit of any such warranty or guarantee as is given by the manufacturer to the Company.

9.3 Subject as expressly provided in these Conditions, and except where the Goods are sold to a person dealing as a consumer (within the meaning of the Unfair Contract Terms Act 1977) all warranties, conditions or other terms implied by statute or common law are excluded to the fullest extent permitted by law.

9.4 Where the Goods are sold under a consumer transaction (as defined by the Consumer Transactions (Restrictions on Statements) Order 1976) the statutory rights of the Buyer are not affected by these Conditions.

9.5 Any claim by the Buyer which is based on any defect in the quality or condition of the Goods or their failure to correspond with specification shall (whether or not delivery is refused by the Buyer) be notified to the Company in Writing as follows:

9.5.1 in respect of damage to or loss of the Goods or any part thereof in transit (where the Goods are carried by the Company's own transport or by a carrier on behalf of the Company) within 5 working days of receipt of the Goods or (in the event of total loss of the Goods) receipt of the relevant invoice or delivery note;

9.5.2 in respect of any defects in the Goods at the time of delivery (not being defects caused by act, neglect or default of the Buyer or of any third party) within 5 working days of receipt of the Goods;

9.5.3 in respect of other defects in the Goods which were not apparent on reasonable inspection, within a reasonable time after delivery of the Goods. If delivery is not refused, and the Buyer does not notify the Company accordingly, the Buyer shall not be entitled to reject the Goods and the Company shall have no liability for such defect or failure, and the Buyer shall be bound to pay the price as if the Goods had been delivered in accordance with the Contract.

9.6 Where any valid claim in respect of any of the Goods, which is based on any defect in the quality or condition of the Goods or their failure to meet specification, is notified to the Company in accordance with these Conditions, the Company shall be entitled to replace the Goods (or the part in question) free of charge or, at the Company's sole discretion, refund to the Buyer the price of the Goods (or a proportionate part of the price) but the Company shall have no further liability to the Buyer.

9.7 Except in respect of death or personal injury caused by the Company's negligence, the Company shall not be liable to the Buyer by reason of any representation or any implied warranty, condition or other term, or any duty at common law, or under the express terms of the Contract, for any consequential loss or damage whether for loss of profit or otherwise, costs, expenses or other claims for consequential compensation whatsoever (whether caused by the negligence of the Company, its employees or agents or otherwise) which arise out of or in connection with the supply of the Goods or their use or resale by the Buyer, except as expressly provided in these Conditions.

9.8 The Company shall not be liable to the Buyer or be deemed to be in breach of the Contract by reason of any delay in performing, or any failure to perform, any of the Company's obligations in relation to the Goods, if the delay or failure was due to any cause beyond the Company's reasonable control. Without prejudice to the generality of the foregoing, the following shall be regarded as causes beyond the Company's reasonable control:

9.8.1 Act of God, explosion, flood, tempest, fire or accident;

9.8.2 war or threat of war, sabotage, insurrection, civil disturbance or requisition;

9.8.3 acts, restrictions, regulations, bye-laws, prohibitions or measures of any kind on the part of any governmental, parliamentary or local authority;

9.8.4 import or export restrictions or embargoes;

9.8.5 strikes, lock-outs or other industrial actions or trade disputes (whether involving employees of the Company or of a third party);

9.8.6 difficulties in obtaining raw Material, s, fuel, parts or machinery;

9.8.7 power failure or breakdown in machinery.

## 10. INDEMNITY

10.1 If any claim is made against the Buyer that the Goods infringe or that their use or resale infringes the patent, copyright, design, trademark or other industrial or intellectual property rights of any other person, the Buyer shall, unless otherwise agreed in Writing between the Buyer and the Company, shall indemnify the Buyer against all loss, damages, costs and expenses awarded against or incurred by the Buyer in connection with the claim, or paid or agreed to be paid by the Buyer in settlement of them (including, provided that:

10.1.1 the Company is given full control of all proceedings or negotiations in connection with any such claim;

10.1.2 the Buyer shall give the Company all reasonable assistance for the purposes of any such proceedings or negotiations;

10.1.3 except pursuant to a final award, the Buyer shall not pay or accept any such claim, or compromise any such proceedings without the consent of the Company (which shall not be unreasonably withheld).

10.1.4 the Buyer shall do nothing which would or might vitiate any policy of insurance or insurance cover which the Buyer may have in relation to such infringement, and this indemnity shall not apply to the extent that the Buyer recovers any sums under any such policy or cover (which the Buyer shall use to its best endeavours to do).

10.1.5 the Company shall be entitled to the benefit of, and the Buyer shall accordingly account to the Company for, all damages and costs (if any) awarded in favour of the Buyer which are payable by, or agreed with the consent of the Buyer (which consent shall not be unreasonably withheld) to be paid by any other party in respect of any such claim; and

10.1.6 without prejudice to any duty of the Buyer at common law, the Company shall be entitled to require the Buyer to take such steps as the Buyer may reasonably require to mitigate or reduce any such loss, damages, costs or expenses for which the Company is liable to indemnify the Buyer under this clause.

## 11. INSOLVENCY OF BUYER

11.1 This clause applies to:

11.1.1 the Buyer makes any voluntary arrangement with its creditors or (being an individual or firm) becomes bankrupt or (being a company) becomes subject to an administration order or goes into liquidation (otherwise than for the purposes of amalgamation or reconstruction); or

11.1.2 an encumbrancer takes possession, or a receiver is appointed, of any of the property or assets of the Buyer; or

11.1.3 the Buyer ceases, or threatens to cease, to carry on business; or

11.1.4 the Company reasonably apprehends that any of the events mentioned above is about to occur in relation to the Buyer and notifies the Buyer accordingly.

11.2 If this clause applies then, without prejudice to any other right or remedy available to the Company, the Company shall be entitled to cancel the Contract or suspend any further deliveries under the Contract without any liability to the Buyer, and if the Goods have been delivered but not paid for the price shall become immediately due and payable notwithstanding any previous agreement or arrangement to the contrary.

## 12. EXPORT TERMS

12.1 In these Conditions 'Incoterms' means the international rules for the interpretation of trade terms of the International Chamber of Commerce as in force at the date when the Contract is made. Unless the context otherwise requires, any term or expression which is defined in or given a particular meaning by the provisions of Incoterms shall have the same meaning in these Conditions, but if there is any conflict between the provisions of Incoterms and these Conditions, the latter shall prevail.

12.2 Where the Goods are supplied for export from the United Kingdom, the provisions of this clause 12 shall (subject to any special terms agreed in Writing between the Buyer and the Company) apply notwithstanding any other provision of these Conditions.

12.3 The Buyer shall be responsible for complying with any legislation or regulations governing the importation of the Goods into the country of destination and for the payment of any duties on import.

12.4 The Buyer shall be responsible for ensuring that the Goods comply with any legislative or other regulatory or safety requirements, relating to the sale by the Buyer or any third party or any use of the Goods in the country of destination.

12.5 Unless otherwise agreed in Writing between the Buyer and the Company, the Goods shall be delivered fob the air or sea port of shipment and the Company shall be under no obligation to give notice under section 32(3) of the Sale of Goods Act 1979.

12.6 The Buyer shall be responsible for arranging for testing and inspection of the Goods at the Company's premises before shipment. The Company shall have no liability for any claim in respect of any defect in the Goods which would be apparent on inspection and which is made after shipment, or in respect of any damage during transit.

12.7 Payment of all amounts due to the Company, shall be made by irrevocable letter of credit opened by the Buyer in favour of the Company and confirmed by a bank acceptable to the Company or, if the Company has agreed in Writing on or before acceptance of the Buyer's order to waive this requirement by acceptance by the Buyer and delivery to the Company of a bill of exchange drawn on the Buyer payable 60 days after sight to the order of the Company at such branch of National Westminster Bank Plc in England as may be specified in the bill of exchange or on such other terms as may be agreed in Writing between the parties.

12.8 The Buyer undertakes not to offer the Goods for resale in any other country outside the European Union notified by the Company to the Buyer at or before the time the Buyer's order is placed, or to sell the Goods to any person if the Buyer knows or has reason to believe that that person intends to resell the Goods in any such country.

## 13. GENERAL

13.1 The Company is a member of the group of companies whose holding company is NMC SA, registered in Belgium, and accordingly the Company may perform any of its obligations or exercise any of its rights hereunder by itself or through any other member of its group, provided that any act or omission of any such other member shall be deemed to be the act or omission of the Company.

13.2 Any notice required or permitted to be given by either party to the other under these conditions shall be in Writing addressed to that other party at its registered office or principal place of business or such other address as may at the relevant time have been notified pursuant to this provision to the party giving the notice and shall be deemed received, in the case of the first class prepaid letter post three days after being posted and, in the case of any other means of communication, immediately on transmission by the sender to the recipient.

13.3 No waiver by the Company of any breach of the Contract by the Buyer shall be considered as a waiver of any subsequent breach of the same or any other provision.

13.4 If any provision of these Conditions is held by any competent authority to be invalid or unenforceable in whole or in part the validity of the other provisions of these Conditions and the remainder of the provision in question shall not be affected.

13.5 The Contract shall be governed and interpreted by English law and any dispute arising under or in connection with these Conditions or the sale of the Goods shall be dealt with under the jurisdiction of the English Courts.

NMC reserves the right to update the product line or its technical features to the state-of-the-art technology anytime and without previous announcement. All given information is to the best of our knowledge. If you have any questions concerning technical details please contact the NMC information service. Any partial reproduction or reprint shall require our explicit approval.



**NMC sa**

Gert-Noël-Strasse · B-4731 Eynatten

+32 87 85 85 00 · +32 87 85 85 11

info@nmc.eu



[www.nmc-insulation.com](http://www.nmc-insulation.com)