



## U PVC Lead Free pipes

#### CONFORMITY MARK BY LIBNOR



NL-EN - ISO 1452 NL - EN 1329

NL - EN 1401



By using **lead-free** additives, we have made all our ranges of pipes environmental-friendly

- Potable Water and Irrigation Pressure pipes up to PN20
- Soil and Waste pipes
- Sewage and drainage pipe systems up to diameter 400mm
- Electrical and telecom Ducts

#### **SOLVENT CEMENT JOINING**









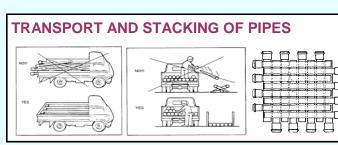




Solvent cement welding preferred when recessed in concrete.

Quantity of Cement and Cleaner					
Required Quantity for 100 sockets					
Ø dn CEMENT CLEANER					
20, 25, 32	250 ml	125 ml			
40, 50, 63	1 L	250 ml			
75,90,110	2 L	0.5 L			
125	3 L	1 L			
160	5 L	2 L			
200	9 L	3 L			

_							
	Distance between supports						
	d <sub>n</sub>	d <sub>min</sub>	d <sub>max</sub>				
	Ø mm	m	m				
	32	0.5	1.2				
	40	0.5	1.2				
	50	0.5	1.5				
	63	0.8	1.5				
	75	0.8	2.0				
	90	0.9	2.0				
	110	1.1	2.0				
	125	1.3	2.0				
	160	1.6	2.0				
	200	1.7	2.0				



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### PRESSURE PIPES

**E**FFECTIVE **J**UNE **2017** 

Prices in USD excluding VAT (subject to modification)

DNIO

## working pressure in bars at 25°C Nominal

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lead Hee	stable w
sable for	

	Rating	PN10		ŀ	PN16		PN20			
	external diameter	socket	wall thick.	Unit Price \$/Im	socket	wall thick.	Unit Price \$/Im	socket	wall thick.	Unit Price \$/Im
	(mm)		(mm)	US\$/lm		(mm)	US\$/lm		(mm)	US\$/lm
1	20							#	2.0	1.40
	25							#	2.5	1.80
	32				#	2.4	2.30	#	3.0	2.70
	40				=	3.0	3.15	=	3.7	3.90
	50	=	2.4	3.15	=	3.7	4.35	=	4.6	5.40
	63	=	3.0	4.35	=	4.7	6.40	0	5.8	7.90
-	75	=	3.6	5.95	=	5.6	8.60	0	6.8	10.40
	90	=	4.3	8.30	=	6.7	12.30	O	8.2	15.00
	110	= o	4.2	9.75	= o	6.6	14.80	0	8.1	18.10
	125	0	4.8	12.40	0	7.4	19.00	0	9.2	23.60
-	160	0	6.2	19.90	0	9.5	30.30	O	11.8	37.60
	200	0	7.7	31.00	0	11.9	46.30	0	14.7	57.20
	250	0	9.6	48.50	0	14.8	72.40			
	315	0	12.1	77.45						

## **NL-EN-ISO-1452**

- O R/R Integral socket with push-fit pressure Rubber Ring
- = S/C Solvent Cement socket
- # P/E Plain Ends

Supplied in 6 meters total length

Colour dark grey approx. RAL 7011

standard production supplied upon request

Other ratings; PN6, PN8, PN12, upon request.

NL CONFORMITY MARK NL-EN-ISO 1452 LIBNOR



### **NL-EN-1329**

#### LOW AND HIGH **TEMPERATURE**

Disch within the building Structure

- Supplied in 6 meters total length
- Colour: light grey (approximately RAL 7037).
- Integral Socket Cement, spigot chamfered



NL CONFORMITY MARK
NL-EN 1329 LIBNOR

## SOIL & WASTE PIPES

· ·					
	Designation BD	Outside diameter in mm	Wall thick. in mm	Weight kg / lm	Unit Pri US\$ / I
THE WALL SOIL PIPE SO ON NEN 1329 3	32 CR4	32	3.0	0.430	2.10
	50 CR4	50	3.0	0.690	3.00
ACU	75 CR4	75	3.0	1.070	4.50
	100 CR4	100	3.0	1.400	5.70
YA-L	110 CR4	110	3.2	1.690	6.80
	125 CR4	125	3.2	1.930	8.30
	160 CR4	160	4.0	3.050	12.50
FOR MAN	200 CR4	200	4.9	4.680	18.40
	Supplied	l upon request	only		

Low & high discharge temperature & Fire Rating M1:

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→ Minimum wall thickness allowed: 3 mm.

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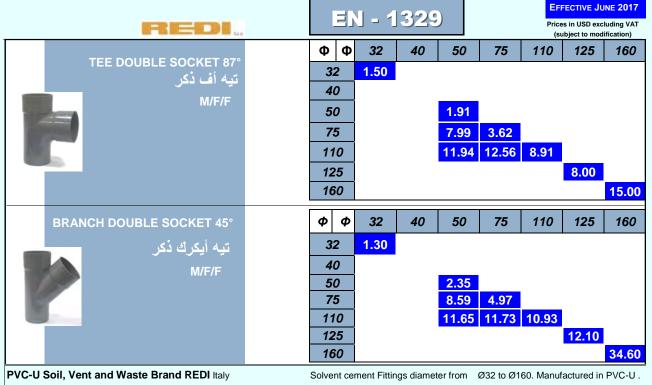
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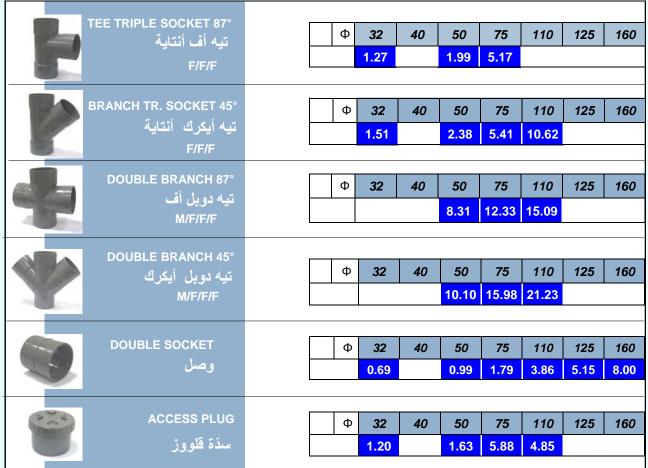




## UPVC FITTINGS FOR SOIL & WASTE DISCHARGE



All products are subject to continuous quality control procedures and manufactured according to (EN 1329 & NF- M1).



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## UPVC FITTINGS FOR SOIL & WASTE DISCHARGE

**EFFECTIVE JUNE 2017** 

EN - 1329 Prices in USD excluding VAT REDI. (subject to modification) 110 32 40 50 **75** 125 160 **BEND 90°** أنتاية Female 0.95 17.15 1.52 4.25 9.11 9.11 كوع زاوية 6.52 ذکر Male 1.20 1.52 3.90 Φ 32 50 *7*5 110 125 160 40 BEND 45° كوع مفتوح أنتاية Female 1.03 5.92 1.51 3.10 6.35 5.91 9.10 ذکر Male 1.20 1.23 2.55 **INVERT REDUCER** Φ Φ 40 *50* **75** 110 125 160 32 1.11 32 وصل مخالف 1.11 40 Reducing 50 3.30 4.97 Plug Φ 50 *7*5 100 110 5.21 *7*5 3.58 3.58 3.82 110 110 5.21 5.85 125 4.55 125 6.35 PVC-U Soil, Vent and Waste Brand REDI Italy Solvent cement Fittings diameter from Ø32 to Ø160. Manufactured in PVC-U . All products are subject to continuous quality control procedures and manufactured according to (EN 1329 & NF- M1). **TEE DOUBLE SOCKET 87** TRAPPED FLOOR GULLEY **ROOF DRAIN** TEE TRIPLE SOCKET 87 سيفون باركيه بصفاية سطح تبه أف سانيت SWEPT High 125 / 75 / 50 H=140 mm M FF Φ 110 11.10 OD 75 37.65 F FF Φ 110 13.10 Low 125 / 75 / 50 H=110 mm OD 110 / ID 100 TRAPPED BALCONY **INSPECTION GULLEY PVC FLOOR DRAIN 200 OUTLET** مصفاية أرض ريكار صليب سيفون شرفة 200x200/90/75/63 27.01 125 / 50 10.02 200x200/110/100 **20.13** 160 x 110 x 75 13.20 10.74 125 / 75 **COMPLETE WASTE ROOF VENT COWL BOSS PIPE 110 x 75** طر ہو ش تیه أف رکار كوع مدفع كامل Φ 75 12.96 Ф 110 6.52 Male -S/Cement 16.95 Φ 110 26.91 **REDICLEANER AND** STAINLESS STEEL STAINLESS STEEL **SOLVENT CEMENT SCREWED GRATE & SCREWED COVER** 125 + **GASKET** مصفاية + غطاء غطاء ریکار +جوان 1 Litre 500 gr 1000 gr

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17.21

20.79 33.38

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20 x 20 cm. 27.00

20 x 20 cm. 29.00

Prices in USD excluding VAT (subject to modification)

## ted Lebanese Plastic Industries sal

## NL-EN-1401 SN 4

- Supplied in 6 meters total length
- •Colour: orange-brown (approx. RAL 8023).
- •Integral socket with push-fit lip seal rubber ring (R/R) according to NL-EN 681, spigot chamfered









Designation SDR 41 UD	OD in mm	Wall Thick. in mm	Weight in kg/lm	Unit Price US\$ / Im
110 SN4 see	110SN8			
125 SN4	125	3.2	1.930	8.30
160 SN4	160	4.0	3.050	12.50
200 SN4	200	4.9	4.680	18.40
250 SN4	250	6.2	7.330	29.30
315 SN4	315	7.7	11.480	44.80
400 SN4	400	9.8	18.380	74.00

This range of standard sewer pipes SN4 (ring stiffness ≥ 4kN/m²) is perfectly adapted for urban sewer networks under Normal conditions.

SN4 sewer pipes can be directly buried underground between 0.9 m and 6 m depth (expected average deflection less than 8%).

#### NL-EN 1401 National foreword:

" If SN 2 class of pipe or fitting is intended to be used, the installation should first be subject to a structural design soil load calculation, classification of soil, and the installation technique modified to suit the results of that calculation. The appropriate calculation is given in NL-EN1295-1."

## NL-EN-1401 SN 8



	Designation SDR 34 UD	in mm	Wall Thick. in mm	Weight in kg/lm	Unit Price US\$ / Im
The s	110 SN8	110	3.2	1.690	6.80
1	125 SN8	125	3.7	2.210	9.50
	160 SN8	160	4.7	3.580	15.00
١	200 SN8	200	5.9	5.600	22.20
1	250 SN8	250	7.3	8.600	34.50
	315 SN8	315	9.2	13.650	53.60
	400 SN8	400	11.7	21.830	88.00

RING CONFORMITY MARK

STIFFNESS NL-EN 1401 ≥8 KN/M2 LIBNOR

Supplied upon request only

This range of standard sewer pipes SN8 (ring stiffness ≥ 8kN/m²) is perfectly adapted for urban sewer networks under Heavy-Duty soil conditions.

SN8 sewer pipes can be directly buried underground be-0.6 m and 9 m depth (expected average deflection tween less than 8%).

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## SLOTTED UNDERDRAIN PIPE

**EFFECTIVE JUNE 2017** 

Prices in USD excluding VAT (subject to modification)

## NF P 16-351

- Supplied in 6 meters total length
- •Colour: orange-brown (approx. RAL 8023).
- Integral socket with push-fit lip seal rubber ring (R/R) according to NL-EN 681, spigot chamfered



	Designation	OD in mm	Dis- charge Area in cm <sup>2</sup>	Water Inlet Area cm²/m	Slot Type	Unit Price US\$ / Im
1	110 R2 SD	110	83	>50	MP	8.40
	125 R2 SD	125	109	>50	MP	9.90
	160 R2 SD	160	178	>70	MP	14.35
	200 R2 SD	200	280	>80	MP	20.50
1	250 R2 SD	250	441	>90	MP	32.40
1	315 R2 SD	315	702	>110	MP	48.40

ULPI® Slotted Underdrain Pipes fulfill requirements of standards DIN-4262 and NF P 16-351 type R2 SD: Round drainage pipe with smooth internal surface (R2) designed for Standard Duty applications



Slots Design MP: slots are located on the upper 135° of the pipe. The lower part of the MP pipe will carry away drained water. Wall thickness according to NL-EN-1401 SN4.

#### PUSH-FIT RUBBER RING JOINING





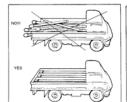


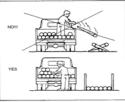


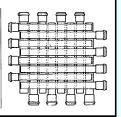




#### TRANSPORT AND STACKING OF PIPES







Distanc	e between s	Qty o	f Lubricant	
d <sub>n</sub> Ø mm	d <sub>min</sub> m	d <sub>max</sub> m	Ø d <sub>n</sub>	1 assembly in g
110	1.1	2.0	110	30
125	1.3	2.0	125	40
160	1.6	2.0	160	60
200	1.7	2.0	200	90
250	2.0	3.0	250	120
315	3.0	3.0	315	165
			400	220

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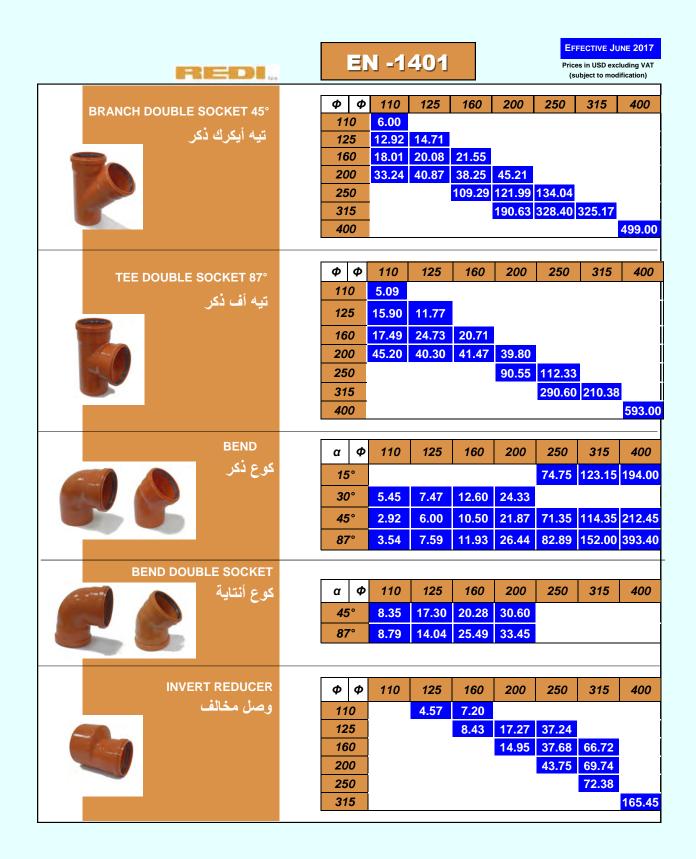








## UPVC FITTINGS FOR GRAVITY DRAIN & SEWER NETWORKS



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	EN -1401  EFFECTIVE JUNE 2017  Prices in USD excluding VAT (subject to modification)
DOUBLE SOCKET with/ without central stop وصل / وصل تصليح	Φ110         Φ125         Φ160         Φ200         Φ250         Φ315         Φ400           3.98         6.52         10.10         20.87         59.35         92.74         173.15
SINGLE SOCKET وصل جوان تلزیق	4.80         6.65         10.80         23.45         50.45
ACCESS PLUG سدّة بسن اسدّة قلووز	5.80         7.83         10.34         14.55         59.29         101.64
SOCKET PLUG سدّة كبس ذكر	2.78         3.58         4.77         8.91         26.58         46.42         89.00
ACCESS PIPE تیه اف بسدّة	15.55         21.83         35.59         63.30         189.90         294.20
BRANCH TRIPLE SOCKET 45° تیه أیکرك أنتایة	12.50 26.55
TEE BRANCH 87° Swept أف سانيتر Double Socket Triple Socket	12.60 16.30
© DOUBLE BRANCH ° 45 تيه دوبل أيكرك ذكر ° 87 تيه دوبل أف	30.38 35.19
CLAMPS W 2S Rubber Lined	3.85 4.27 6.61 8.12
REDI LUBRICANT شحم	REDI LUBRICANT 500 gr 1000 gr 11.71 15.23

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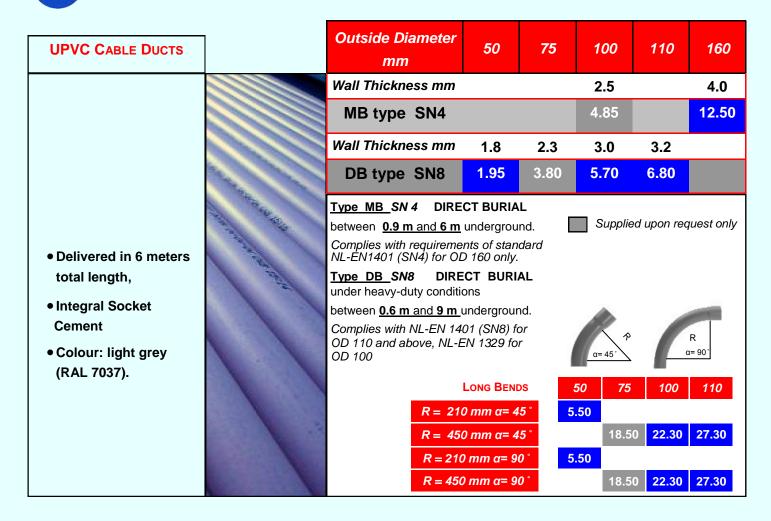




## ELECTRICAL & TELECOM CABLE DUCTS& FITTINGS

**EFFECTIVE JUNE 2017** 

Prices in USD excluding VAT (subject to modification)



## TUBELEC® RIGID UPVC CONDUITS Heavy Metal Free (RoHS)

#### NL- EN 61 386 1-21 **Nominal** Outside Wall Minimum **Packing** Total Size Ø / Diam **Thickness** Internal Length Qty **Diameter Type** mm mm mm pcs m TUBELEC UP **Heavy Duty** \*IRL 4431 16 hd 1.5 12.6 50 145.0 16 -0.3 •Delivered in 2.90 m overall length. 16.4 20 hd 20 1.7 32 92.8 -0.3 •Plain end both sides. 21.2 19 55.1 25 hd 25 1.8 •Color: Light Grey -0.4 approx.RAL 7035. 26.7 40.6 32 hd 32 2.1 14 For Tubelec® prices please contact our sole distributor 35.6 8 23.2 40 hd 40 2.2 for Lebanon: Constratec s.a.r.l. T: 01 586 888

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#### **PRESSURE PIPES**



## **NL-EN-ISO 1452**

lead free

#### Potable water

- ▶ Potable water, Irrigation and swimming pools, Drainage and sewerage under pressure. Buried and above ground.
- pressure: PN10 PN16; PN20 (PN 6,8,12 upon request)
- Cold water from 20°C to 45°C
- Starting Outer Diameter 20 mm up to 315mm
- Color: dark grey RAL 7011
- Direct Burial
- Solvent Cement Welding & Push fit pressure Rubber Ring

#### SOIL AND WASTE SYSTEMS



lead free

### NL-EN-1329

**Inside Buildings** 

- ► Waste and soil installation discharge within the building structure
- Low & High temperature → = Minimum wall thickness: 3 mm
- Starting 32 mm diameter up to 160mm.
- Color: light grey RAL 7037
- Solvent cement welding preferred when recessed in concrete.

#### **GRAVITY SEWER SYSTEMS:**



### <u>NL-EN 1401</u>

lead free

#### **Underground installation**

#### ► Gravity sewer & rain water

- · Starting 110 mm diameter
- Color: orange-brown RAL 8023
- Rubber Ring push fit socket.
- The Most Adapted in seismic
- Area Codes U and UD
- **Direct Burial**
- Two classes for **Traffic Load**

SN 4 (SDR 41) normal burial Depth between

0.90 meter and 6 meter

SN 8 (SDR 34) heavy duty soil condition & burial between 0.60 meter and 9 meter

Nota: (SN2 (SDR 51) requires costly protection and is not accepted under heavy load traffic)





#### NL CONFORMITY MARK LICENSE

No. 01/2014

LIBNOR hereby grants to:

The United Lebanese Plastic Industries S.A.L. Samaha Industrial Complex Roumieh Road Jdeideh – Nahr el Mott Lebanon

In respect of: Unplasticized Poly (Vinyl Chloride) Pipes (PVC-U pipes) for water supply and for buried and above ground drainage and sewerage under pressure: REDI and ULPI

Unplasticized Poly (Vinyl Chloride) Pipes (PVC-U pipes) for soil and waste discharge (low and high temperature) within the building structure: REDI and ULPI

According to:

NL EN 1452-2\*
Plastic Piping Systems for water supply and for buried and above ground drainage and sewerage under pressure - Unplasticized Poly (Vinyl Chloride) (PVC-U) – Part 2: Pipes

Date: 1/7/2014

NL EN 1529-1\*
Plastic Piping Systems for soil and waste discharge (low and high temperature) within the building structure - Unplasticized Poly (Vinyl Chloride) (PVC-U) – Part 1: Specifications for Pipes, Fittings and the System

The right and License to use the NL Conformity Mark in accordance with LIBNOR general scheme (P6F1-GI) governing the use of the NL conformity mark. The use of the Conformity mark is authorized in respect of the product, manufactured at, or provided from, the address above and in conformity with the standard detailed above.

For and on behalf of LIBNOR: GHAZIRI Habib, Chairman, LIBNOR.

First granted: 1/7/2014

\* The latest version adopted by LIBNOR is applicable

The Lebanese standards Institution-LIBNOR

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Tel: +9611485927- Fax: +9611485929. E-mail: <u>libnor@libnor.org</u> Website: www.libnor.



TY MARK



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# ULPI: pipes you can trust

#### The United Lebanese Plastic Industries s.a.l.

الشركة اللبنانية المتحدة لصناعة البلاستيك ش.م.ل.

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Lebanon





