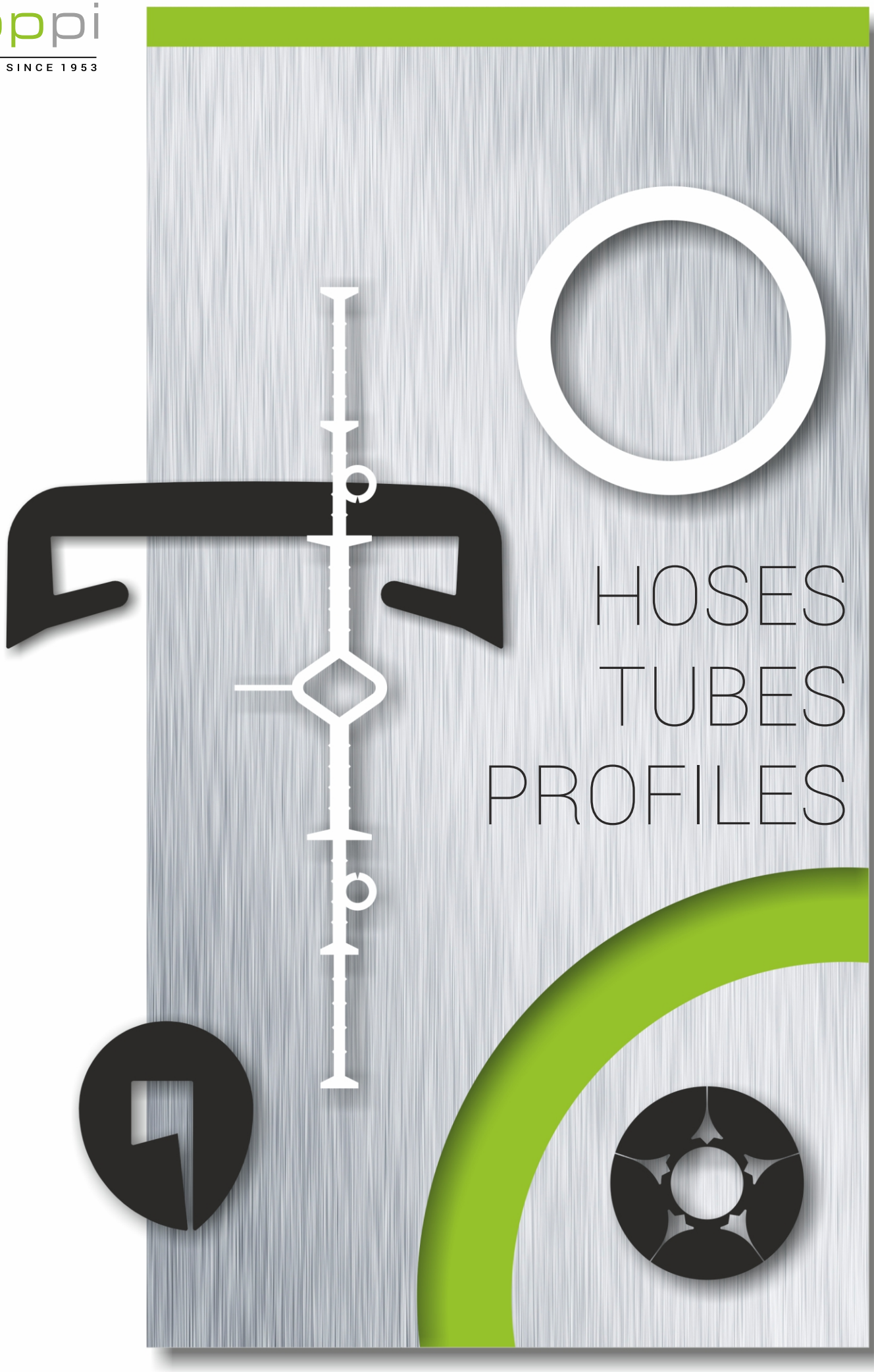
toppi

SINCE 1953



HOSES
TUBES
PROFILES

Catalogue

toppi
SINCE 1953

Finnish Quality Since 1953.

66 years extrusion experience

Tero Toppi, Managing Director

Toppi Oy was established in 1953 and is still 100% owned and managed by the Toppi family. Our main office and production is located in Espoo Finland where there are 45 full time employees.

Manufacturing of reinforced hoses was started in 1965. First deliveries to Sweden started in 1985. After this exports expanded to many more countries. The first Topp-brand

ToppAir™ was launched in 1986.

In 2013 we opened a daughter company Toppi Plast Oü based in Pärnu Estonia. Toppi Plast Oü has supported the Toppi growth strategy to be more competitive and to expand into the Baltic market area.

Our strenghts are good technical know-how, knowledge of raw materials, the experience of our professional staff and of course the in-house toolshop.

Reliable manufacturer of hoses, tubes and profiles

We are manufacturing high quality hoses, tubes, and profiles for industrial and consumer needs.

Most of our products we are manufacturing as a subcontractor.

From your idea to a finished product!

Thanks to our expertise and experience in plastics, CAD designing and tool making in our modern tool shop, we are able to offer our customers the full service from idea and design, to 3D printed prototypes, tooling and final product. We understand the importance of being flexible and offering our customers the most cost effective and functional solutions to their needs. We take advantage of the latest CAD software in the design process and 3D printing capability of prototypes.

Our extensive knowledge of plastics and long relationships with our material suppliers ensures high quality technical support ensuring we select the best raw materials for every application.

toppi
SINCE 1953

Contact

Customer Service

Kaja Vetevoog
Sales Assistant
kaja.vetevoog@toppi.fi
+358 (0)20 7589 823

Mia Lindholm
Sales Assistant
mia.lindholm@toppi.fi
+358 (0)20 7589 821

Kristel Margus
Office Administrator / Pärnu
kristel.margus@toppiplast.ee
+372 444 7791

Toppi Oy
+358 (0)20 7589 820
info@toppi.fi

Sales

Kai Suokko
Sales
kai.suokko@toppi.fi
+358 (0)20 7589 832

Jesse Hiltunen
Sales
jesse.hiltunen@toppi.fi
+358 (0)20 7589 822

Mats Petersson
Sales / Scandinavia
mats.petersson@toppi.fi
+46 708 210268

Marketing

Sofia Suokko
Marketing
sofia.suokko@toppi.fi

Purchase

Tomi Toppi
Purchasing Manager
tomi@toppi.fi
+358 (0)20 7589 826

R&D and Production

Pasi Toppi
Technical Director
pasi@toppi.fi
+358 (0)20 7589 834

Simo Toppi
Design Engineer
simo.toppi@toppi.fi
+358 (0)20 7589 843

Teppo Toppi
Maintenance
teppo.toppi@toppi.fi
+358 (0)50 0270 638

Teemu Korkeila
Production Director
teemu.korkeila@toppi.fi
+358 (0)40 7765 076

toppi
SINCE 1953

Contact

Administration

Tero Toppi
Managing Director
tero@toppi.fi
+358 (0)20 7589 825

Iiris Huttunen
Finance Manager
iiris.huttunen@toppi.fi
+358 (0)20 7589 820

Daniel Adams
Controller
daniel.adams@toppi.fi
+358 (0)20 7589 827

Warehouse

Ari Haavisto
Warehouse Manager
ari.haavisto@toppi.fi
+358 (0)20 7589 848

Toppi Oy

Tiilismäki 9, 02330 Espoo, Finland
Office: +358 (0)20 7589 820
info@toppi.fi
firstname.lastname@toppi.fi

TOPPI PLAST OÜ
Rääma 96, 80040 Pärnu linn, ESTONIA
+372 4447 791
info@toppiplast.ee

toppi
SINCE 1953

Content

toppi
SINCE 1953

Catalogue

HOSES

toppi

Hoses

Toppi hoses

Oy Toppi Ab has over 50 years of hose production experience, with a wide range of hose products to meet the most demanding consumer and industrial needs. Toppi has the capabilities to manufacture single layer hoses to more complex multi layered reinforced. Most common materials used are in hose production is PVC, TPV, Polyurethane and PE, Other grades of material can also be used to achieve specific technical properties.

Phthalate-free premium-grade water hose

A supreme hose for quality-conscious consumers and professionals. ToppYellow™ is suitable for many different applications; owing to good pressure resistance, it can also be used in pneumatic installations.

ToppYellow™ is manufactured from the best raw materials and is thus a very safe and durable option. The hose excellently withstands even hard external wear, such as abrasion, tensile load, and driving-over. Dirt does not stick to the smooth hose surface and the hose is easy to pull over all kinds of ground surfaces.

Suitable for food contact.

ToppYellow™

To plantations and gardens

Technical information

Primary use	Irrigation hose for cultivated land and gardens. **Suitable for food contact.**
Material	PVC and polyester, phthalate-free
Structure	3-layer reinforced hose
Colour	Outer hose yellow
Operating pressure	10 bar (at 20 °C according to the SFS 5408 standard)
Operating temperature range	-20 ... +60 °C
Inner/outer Ø mm	12/17, 16/21, 19/25, 25/32
Lengths depending on size (m)	20, 25 and 50

Very sturdy hose made of recycled PVC, for heavy-duty use

ToppReCycle™ is a convenient and durable water hose made 100 % of clean and odourless recycled plastic for quality-conscious consumers and professionals. Owing to its smooth surface, the hose is easy to pull over all sorts of ground surfaces and floors. ToppReCycle™ leaves no marks on surfaces and dirt does not stick to the hose surface. Due to its durability, ToppReCycle™ is suitable for many applications.

It is the greenest water hose on the market – regardless of its black colour, which also makes the hose suitable for water heating by solar power.

ToppRecycle™

For heavy-duty use

Technical information

Primary use	Construction sites, properties, industry, irrigation
Material	100 % recycled PVC and polyester
Structure	3-layer reinforced hose
Colour	Black with yellow stripe
Operating pressure	10 bar (at 20 °C according to the SFS 5408 standard)
Operating temperature range	-20 ... +60 °C
Inner/outer Ø mm	16/22, 19/25, 25/32
Lengths depending on size (m)	25 and 50

High-quality pneumatic hose for a demanding user

ToppAir™ is an excellently durable and flexible fabric-reinforced pneumatic hose. The ToppAir™ hose can often be spotted connected to various pneumatic tools at industrial or construction site environments. Owing to its nitrile rubber content, ToppAir™ retains the flexibility and is pleasant to use in cold conditions as well.

ToppAir™ hoses can be ordered in special lengths and with quick connectors to meet all industrial needs.

ToppAir™
Durable pneumatic hose

Technical information

Primary use	Compressed air hose for pneumatic tools
Material	PVC, nitrile rubber and polyester
Structure	3-layer reinforced hose
Colour	Outer hose grey, inner hose black
Operating pressure	20 bar (at 20 °C according to the SFS 5408 standard)
Operating temperature range	-20 ... +60 °C
Inner/outer Ø mm	6/11, 8/13, 10/16, 12/18, 16/23, 19/26, 25/33
Lengths depending on size (m)	25 and 50

Phthalate-free premium-grade universal hose

The transparent, reinforced ToppClear™ is a hose suitable for many different purposes. Resistance to twists, convenience, transparency, and good pressure resistance have made ToppClear™ a popular multi-purpose hose for industrial applications.

As a superbly universal hose, ToppClear™ is just as suitable for domestic needs – wash rooms, saunas, garages, boats, etc.

Suitable for food contact. In addition for use in the laboratory area.

ToppClear™
Universal hose for industry and household use

Technical information

Primary use	Multi-purpose hose for industrial and domestic applications. **Suitable for food contact.**
	In addition for use in the laboratory area.
Material	PVC and polyester, phthalate-free
Structure	3-layer reinforced hose
Colour	Outer and inner hose transparent
Operating pressure	10 bar (4-32 mm) and 6 bar (38 ja 50 mm) (at 20 °C according to the SFS 5408 standard)
Operating temperature range	-20 ... +60 °C
Inner/outer Ø mm	4/10, 6/12, 8/14, 10/16, 12/18, 16/22, 19/25, 25/32, 32/40, 38/47, 50/60
Lengths depending on size (m)	25 and 50

Genuine and original green garden hose for every home

Owing to its excellent quality, ToppGreen™ has been the most popular garden hose in Finland for decades. The hose walls are 20-40% thicker as compared to any other translucent green hose available on the market. Because of this, ToppGreen™ always does its job. Connectors do not fall off the hose; it does not twist and retains its shape while in use.

When manufacturing ToppGreen™, the environment is also considered, since 60 % of the hose raw materials are recycled.

ToppGreen™

Most popular garden hose

Technical information

Primary use	Irrigation hose for agriculture and gardens; also suitable for construction sites
Material	PVC (polyvinyl chloride) and polyester
Structure	3-layer reinforced hose
Colour	Outer hose translucent green, inner hose black
Operating pressure	6 bar (at 20 °C according to the SFS 5408 standard)
Operating temperature range	-20 ... +60 °C
Inner/outer Ø mm	12/16, 16/20, 19/24, 25/31
Lengths depending on size (m)	20, 25 and 50

Premium+ water hose made of PE-copolymer

ToppAqua™ is a novel product best suitable for places where a truly good water hose is required. ToppAqua™ offers unique advantages to the users.The hose retains its shape very well and even straightens itself, thereby preventing twists. Owing to its excellent constituent materials, ToppAqua™ retains supreme flexibility in cold conditions as well. The extremely light hose floats on water.

Because of its materials, a fine choice for children's water games, indoor swimming halls, and leisure centres. The hose can be disposed of by incineration. Works best on a hose reel or carriage.

Suitable for food contact.

ToppAqua™

Washrooms, swimming halls and spas

Technical information

Primary use	Washrooms, swimming halls and spas. **Suitable for food contact.**
Material	PE-copolymer and polyester
Structure	3-layer reinforced hose
Colour	Outer hose ice blue, inner hose white
Operating pressure	10 bar (at 20 °C according to the SFS 5408 standard)
Operating temperature range	-45 ... +52 °C
Inner/outer Ø mm	12/17 and 16/21
Lengths depending on size (m)	20, 25 and 50

High quality hose for agricultural irrigation

The reinforced green ToppGrow™ is a premium waterhose designed for professional use at plantations. ToppGrow™ is suitable to convey lots of water effortlessly, as an example to irrigation sprinklers.

The ToppGrow™ hose includes features valued by professionals. It has an excellent UV resistance. The pigment keeps light out from the hose preventing growth of algae inside the hose. It is durable and it has good pressure resistance.

ToppGrow™ Premium waterhose

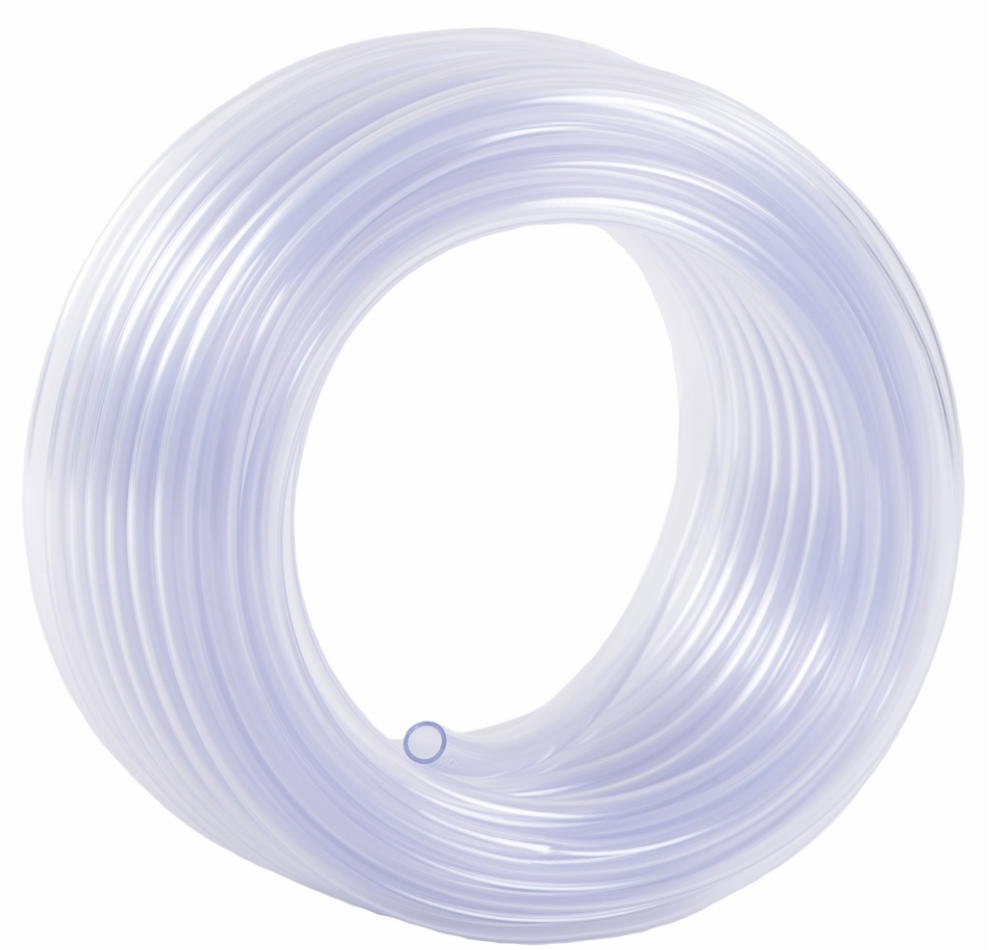
Technical information

Primary use	Irrigation hose for agriculture
Material	PVC and polyester
Structure	3-layer reinforced hose
Colour	Outer hose green, inner hose black
Operating pressure	10 bar (at 20 °C according to the SFS 5408 standard)
Operating temperature range	-20 ... +60 °C
Inner/outer Ø mm	16/22, 19/25, 25/32
Lengths depending on size (m)	25, 36, 50, 100

Phthalate-free safety usage hose with universal applications

The transparent and non-reinforced ToppBright™ hose serves many industrial and domestic purposes.

Suitable for food contact.



ToppBright™ Universal applications

Technical information

Primary use	Multi-purpose hose for industrial and domestic applications. **Suitable for food contact.**
Material	PVC, phthalate-free
Structure	1-layer non-reinforced hose
Colour	Transparent. Other colours available upon request
Operating temperature	-20 ... +60 °C
Inner/outer Ø mm	2/4, 3/5,4, 4/7, 5/8,2, 6/9,6, 8/11,6, 9/12,6, 11/14,8, 12/15,5, 16/20,2, 19/23,6, 25/30,2, 32/40, 38/47, 50/60, 63/74
Lengths depending on size (m)	25, 50 and 100

Non-reinforced hose with superior flexibility and durability

The flexible, durable and non-reinforced ToppFlex™ hoses are suitable for fuels and many oil based fluids. ToppFlex™ hoses are made of transparent ester based polyurethane. Therefore, they are not recommended for water.

We can manufacture ToppFlex™ in many colours upon request.

ToppFlex™

For fuels and many oil based fluids

Technical information

Primary use	For fuels and many oil based fluids
Material	PUR (ester based polyurethane)
Structure	1-layer non-reinforced hose
Colour	Transparent
Operating pressure	-30 ... +80 °C, momentarily +100 °C
Inner/outer Ø mm	3/5, 5/8, 5,5/8, 6/9, 8/11, 9/12, 12/15

Cost-effective hose to meet the needs of the soft drink industry

ToppDrink has high flexibility and high resistance to stress cracking.Tighter bend radius than polyethylene (LDPE). Easily installed product, especially in applications where flexibility is required and space is at a premium. Also a high kink-resistance.

Suitable for food contact.

ToppDrink™

Easy installation

Technical information

Primary use	Beverage industry. **Suitable for food contact**
Material	Polyethene LDPE-EVA
Structure	3-layer reinforced hose
Colour	Natural
Operating pressure	16 bar (6 mm), 10 bar (7,5...9,5 mm), 6 bar (12 mm) (20 °C SFS 5408)
Operating temperature range	-40 ... +50 °C
Inner/outer Ø mm	6/12, 7,5/13, 9,5/15,8, 12/18
Lengths depending on size (m)	Standard length 50

Flexible and durable polyurethane air hose for pneumatic tools

ToppPur™ reinforced air hose is made of premium quality polyurethane, and is therefore flexible and durable even in cold conditions. ToppPur™ is an excellent option for pneumatic tools that are used in cold outdoor operations.

We deliver ToppPur™ hoses in requested lengths and also with fittings.

ToppPur™

Good option for cold outdoor operations

Technical information

Primary use	Compressed air hose for pneumatic tools
Material	Ester based polyurethane and polyester
Structure	3-layer reinforced hose
Colour	Outer hose red, inner hose black
Operating pressure	20 bar (at 20 °C according to the SFS 5408 standard)
Operating temperature range	-40 … +80 °C, momentarily +100 °C
Inner/outer Ø mm	6/12, 8/13, 10/15
Lengths depending on size (m)	30

Durable and economic hose for air pressure tools

ToppPress™ is a durable and economic reinforced air hose for pneumatic tools. The hose has excellent pressure resistance.

Upon request we can deliver ToppPress™ hoses in specific lengths and with fittings.

ToppPress™

Excellent pressure resistance

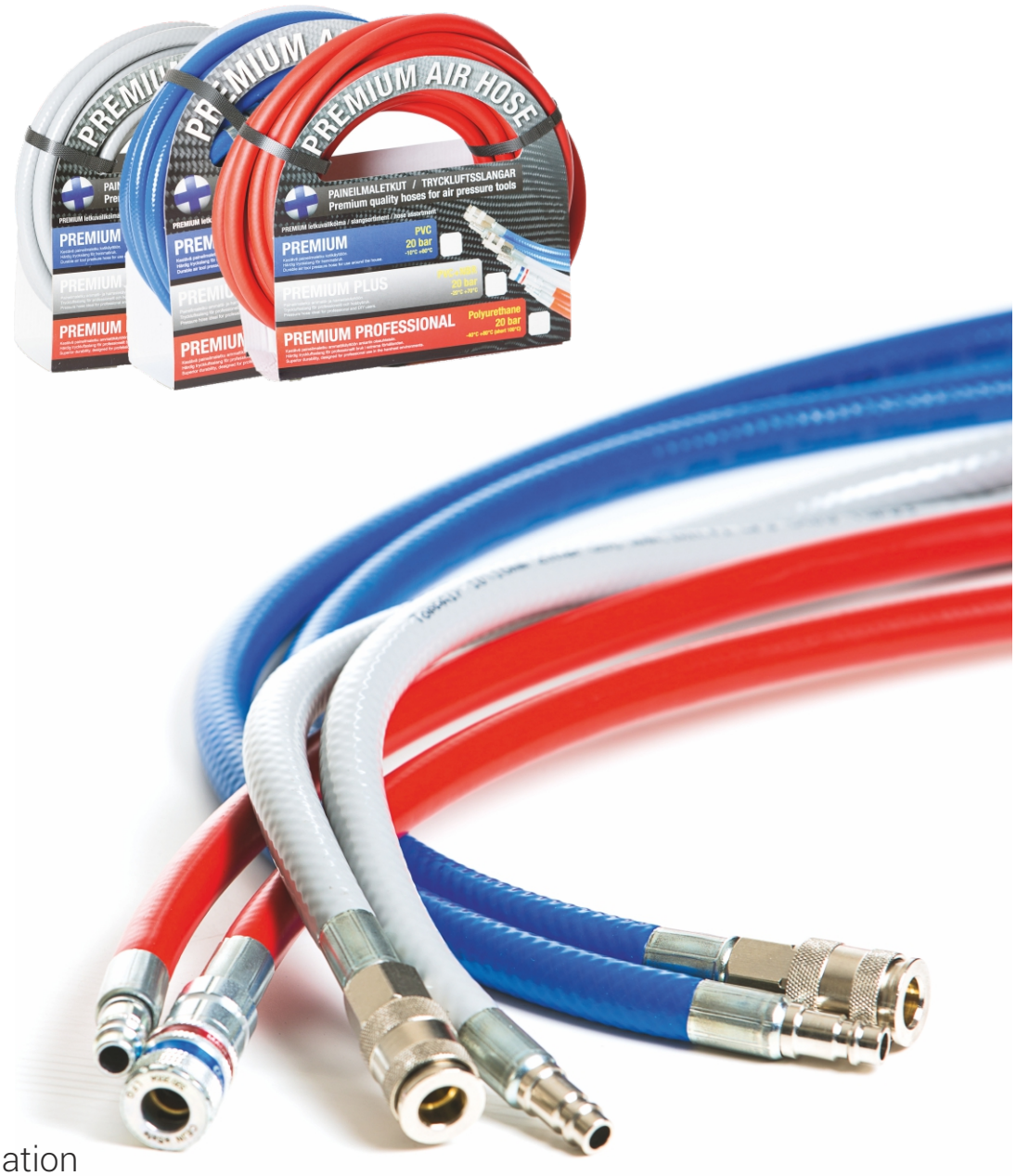
Technical information

Primary use	Compressed air hose for pneumatic tools
Material	PVC and polyester
Structure	3-layer reinforced hose
Colour	Outer hose blue, inner hose black
Operating pressure	20 bar (at 20 °C according to the SFS 5408 standard)
Operating temperature range	-20 ... +60 °C
Inner/outer Ø mm	10/15, 12/17,5, 16/21
Lengths depending on size (m)	30

Premium air hoses with couplings

Premium air pressure hoses with high quality quick couplings installed.

These hoses have been specifically designed for use with air compressors and air tools in demanding environments.



Technical information

Coupling type	European Universal
Hose materials	Premium: PVC/ Standard couplings, Premium Plus: PVC+NBR/ safety couplings Premium Professional: Polyurethane/ Premium safety couplings
Application	DIY and professional air tools
Colour	Red, grey and blue
Lengths depending on size (m)	10 m

ToppCover™ – protective hose for a demanding environment

ToppCover™ 105

is an economic protective hose, which withstands high temperatures. Commonly used in automotive wiring harnesses.

ToppCover™ 70

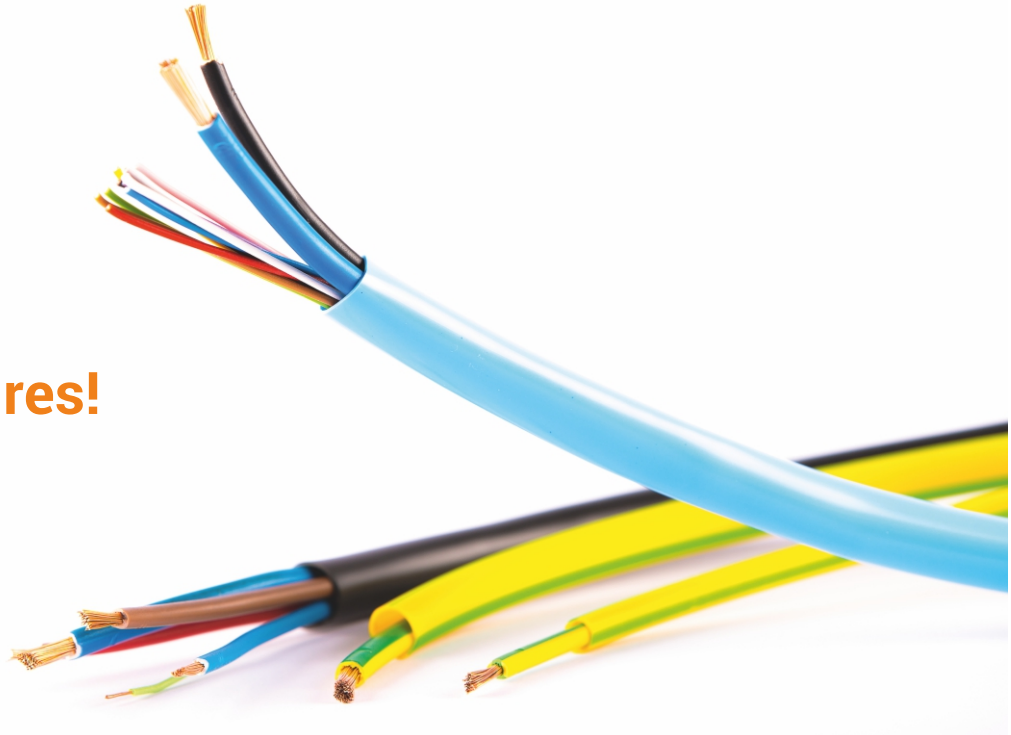
is an economic protective hose, which withstands high temperatures. The optimum wall thickness enables easy and fast assembling of cables.

ToppCover™ DIN 40621

is a safe and durable insulation hose for electric cables. There are several colours available for marking needs.

ToppCover™ DIN 40621 KEVI

is a safe and durable insulation hose for earthing wires.



ToppCover™

Cover your wires!

Technical information

Material	PVC
Structure	1-layer non-reinforced hose
Colour	Several colours available
Operating temperature	-20 ... 105 °C
Inner diameter (mm)	1-60
Lengths depending on size (m)	50-5000

Durable First Aid Hose for domestic needs

The reinforced ToppSafety™ HBS (Husbrandslang) waterhose is designed for domestic fire fighting, also suitable for daily use in many other places such as in the garage and the washing room.

ToppSafety™ HBS

First aid hose for domestic needs

Technical information

Primary use	Domestic fire hose
Material	PVC and polyester
Structure	3-layer reinforced hose
Colour	Outer and inner hose black
Operating pressure	10 bar (at 20 °C according to the SFS 5408 standard)
Operating temperature range	-20 ... +60 °C
Inner/outer Ø mm	12,7/16,7 (1/2")
Lengths depending on size (m)	25 m standard length and custom lengths

Durable First Aid Fire Reel hose that meet the standard

The reinforced ToppSafety™ NBR hoses are designed for First Aid Fire Hose Reels in public and industrial buildings. The hoses are very durable and therefore suitable for daily usage – they withstand traction and are always easy to keep clean.

ToppSafety™ NBR hoses meet the EN 694 quality standard.

ToppSafety™ NBR

For public and industrial buildings

Technical information

Primary use	Fire safety hose in public and industrial buildings
Material	PVC/NBR (polyvinylchloride/nitrile rubber) and polyester
Structure	3-layer reinforced hose
Colour	Outer and inner hose black
Operating pressure	10 bar (at 20 °C according to the SFS 5408 standard)
Operating temperature range	-20 ... +60 °C
Inner/outer Ø mm	19/26, 25/33
Lengths depending on size (m)	Custom lengths

Durable binding for a tidy cable installation

ToppBand™ PA is a durable binding spiral for bringing various cables together neatly. The binding can be easily installed and opened. ToppBand™ secures cables tightly every time.

ToppBand™ PA

Organize your tubes and wires

Technical information

Material	Polyamid (PA)
Structure	Cut 1-layer tube
Colour	Black
Operating temperature	-40 ... +80 °C
Inner/outer Ø mm	6/4, 8/6, 10/8, 12/10, 15/12,5, 18/15
Lengths depending on size (m)	50, 100, 350, 700

Durable binding for a tidy cable installation

ToppBand™ PE is a durable binding spiral for bringing various cables together neatly. The binding can be easily installed and opened. ToppBand™ secures cables tightly every time.

ToppBand™ PE

Organize your tubes and wires

Technical information

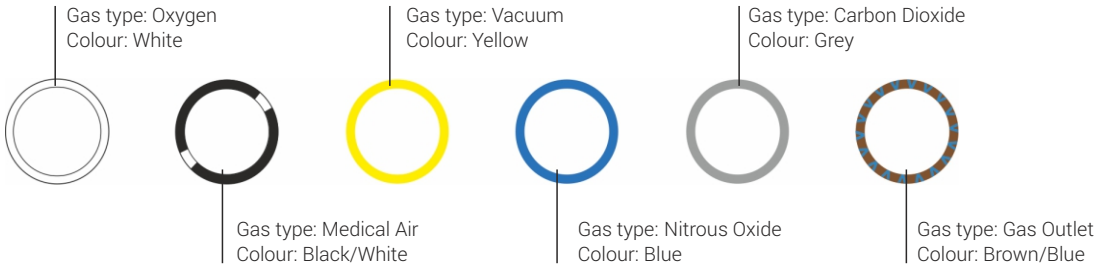
Material	Polyethylene (PE)
Structure	Cut 1-layer tube
Colour	Black
Inner/outer Ø mm	6/4, 8/6, 10/8, 12/9, 12/10, 15/12,5, 18/15
Lengths depending on size (m)	7, 10 , 25, 50, 100

ToppMedic™ – low pressure hoses for medical use

ToppMedic hoses are manufactured in accordance with ISO EN 5359 standard. All material used to manufacture ToppMedic hoses are phthalate free and fully compliant with REACH (1907/2006) and RoHS directive (2011/65/EU).

All ToppMedic hoses are antistatic and colour coded making them suitable to low pressure medical gas installations.

ToppMedic™ assortment:



Product number	Gas type	Dimensions	Length	Colour
19606011030	Oxygen	6/11	30 m	White
19608014030	Medical Air	8/14	30 m	Black/White
19610016030	Vacuum	10/16	30 m	Yellow
19606011030-1	Nitrous Oxide	6/11	30 m	Blue
19606011030-2	Carbon Dioxide	6/11	30 m	Grey
19612017430	Gas Outlet	12/17,4	30 m	Brown/Blue

Technical information

Application	Reinforced tubing for gas supply
Material	Antistatic food grade PVC, DEHP Free, 85 Shore
Structure	3-layer hose reinforced with polyester yarn
Packaging	Heat shrink film PE
Operating pressure	14 bar/ 20 °C

toppi
SINCE 1953

Catalogue

TUBES

toppi

Tubes

Toppi is a leader in pneumatic tube manufacturing

Toppi has been supplying tubing to the pneumatic industry from our modern production facility for decades. We offer a wide range of tubing to meet the most demanding pneumatic applications. We work closely with all the major material suppliers in Europe to ensure the highest quality and most appropriate materials are used for our pneumatic tubes.

The most common materials we use for pneumatic tube production are PA11, PA12 HDPE, LDPE, LLDPE, and TPU.

Toppi is very proud to have developed its own CNC bending machine for plastic tubing, allowing us to bend tubes from CAD drawing eliminating the need for expensive moulds and tooling.

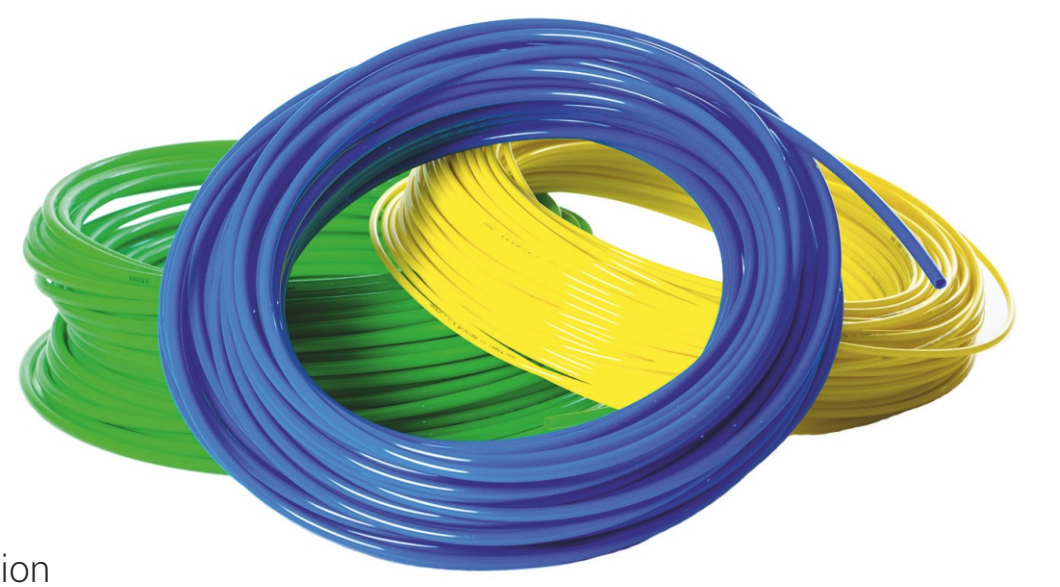
Toppi also specialises in manufacturing customizes multi cables which is usually a combination of tubes, and electric cables within one protective sheeth. Toppi Multi cables are most commonly used in the machine industry with the benefit of having all required tubes and cables neatly organised in a compact sheath.

For further information please contact our experienced sales team who are happy to help find the best solution for your needs.

PA11 (hard), PA11P40 (semi-hard) and PA11F15 (soft)

Flexible pressure-resistant tubes for pneumatic and hydraulic applications, as well as for grease lubrication.

Superior in high temperature applications.



Technical information

Material	Polyamide PA11 (Nylon 11) Rilsan
Hardness	PA11 (70 Shore D) PA11P40 (63 Shore D) PA11F15 (52 Shore D)
Installation temperature	-20 °C ... +50 °C
Working temperature	-40 °C ... +80 °C
Operating pressure	Recommendation: 1/3 of burst pressure
Tolerances	According to DIN 74324
Colours	Natural, black, blue, yellow, red, green, silver, etc.
Dimensions	Outer diameter 3,0 mm...28,0 mm / inner diameter 2,0 mm...24,0 mm
Chemical resistance	Good chemical resistance against oils, hydraulic fluids, and fuels. Not suitable for chloride compounds
Density	1,05 g/cm³ according to the ISO 1183 testing method

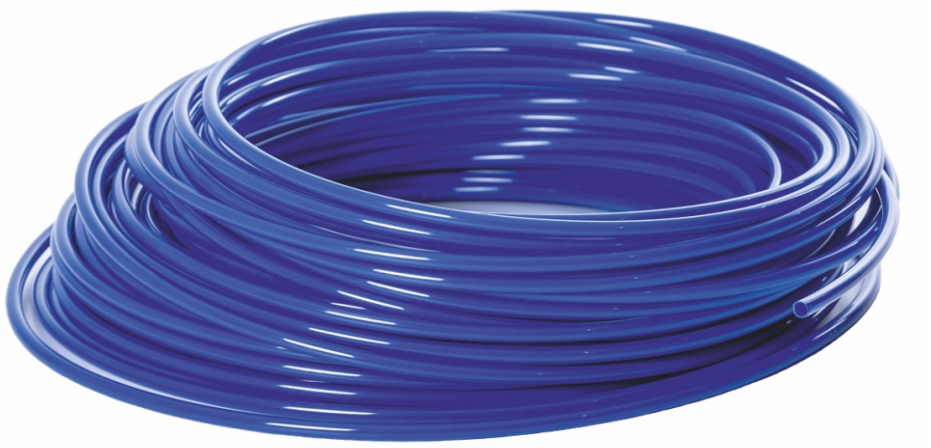
Burst pressure in different temperatures:

Material	PA11				PA11P40				PA11F15					
dimensions mm outer/inner	temperature °C				temperature °C				temperature °C				weight g/m	bending radius min. mm
	20	40	60	80	20	40	60	80	20	40	60	80		
4/2	225	159	123	96	132	96	75	63	87	63	51	45	9,9	24
5/3	168	117	90	72	99	72	57	48	63	45	36	30	13,2	30
6/4	135	96	72	57	78	57	45	36	51	36	30	27	16,5	36
8/6	96	66	51	42	57	42	33	27	36	27	21	15	23,1	50
10/8	75	54	42	33	42	30	24	21	27	18	15	12	29,7	80
12/10	60	42	33	42	36	27	21	18	21	15	12	9	36,3	118
14/12	51	36	27	21	30	21	18	15	18	12	9	6	42,9	163
15/12,5	60	42	33	27	36	27	21	18	21	15	12	9	56,7	90
16/12	96	66	51	42	57	42	33	27	36	27	21	15	92,4	100
18/15	60	42	33	27	36	27	21	18	21	15	12	9	81,6	177
22/18	66	45	36	27	39	27	21	18	24	18	15	12	131,9	196

PA12P40

High pressure resistance tube which can be used in high temperatures also.It has a good impact resistance too.

Can be used in pneumatics, industrial robots and instrumentation lines. Superior in high temperature applications.



Technical information

Material	Polyamide PA12P40 (Nylon 12)
Installation temperature	-20 °C ... +50 °C
Working temperature	-40 °C ... +80 °C
Operating pressure	Recommendation: 1/3 of burst pressure
Tolerances	According to DIN 74324
Colours	Natural, black, blue, yellow, red, green, silver, etc.
Dimensions	Outer diameter 3,0 mm...28,0 mm / inner diameter 2,0 mm...24,0 mm
Chemical resistance	Good chemical resistance against oils, hydraulic fluids, and fuels. Not suitable for chloride compounds
Density	1,03 g/cm³ according to the ISO 1183 testing method

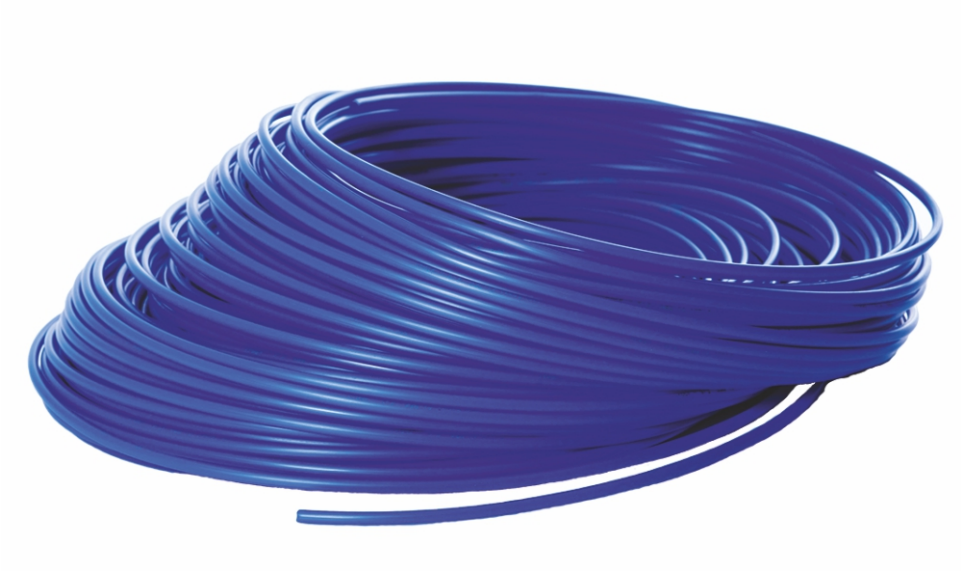
Burst pressure in different temperatures:

Material	PA12P40					
dimensions mm outer/inner	temperature °C				weight g/m	bending radius min. mm
	20	40	60	80		
4/2	132	96	75	63	9,9	24
5/3	99	72	57	48	13,2	30
6/4	78	57	45	36	16,5	36
8/6	57	42	33	27	23,1	50
10/8	42	30	24	21	29,7	80
12/10	36	27	21	18	36,3	118
14/12	30	21	18	15	42,9	163
15/12,5	36	27	21	18	56,7	90
16/12	57	42	33	27	92,4	100
18/15	36	27	21	18	81,6	177
22/18	39	27	21	18	131,9	196

PA Premium

PA Premium has been developed especially for media lines on passenger cars and trucks.

Thanks to its excellent resistance it is particularly suitable for fuel, diesel, air brake, oil, cooling fluid or pneumatic and hydraulic applications.



Technical information

Material	Polyamide PA
Installation temperature	-20 °C ... +50 °C
Working temperature	-40 °C ... +80 °C
Operating pressure	Recommendation: 1/3 of burst pressure
Tolerances	According to DIN 74324
Colours	Natural, black, blue, yellow, red, green, silver, etc.
Dimensions	Outer diameter 3,0 mm...28,0 mm / inner diameter 2,0 mm...24,0 mm
Chemical resistance	Good chemical resistance against oils, hydraulic fluids, and fuels. Not suitable for chloride compounds
Density	1,03 g/cm³ according to the ISO 1183 testing method

Burst pressure in different temperatures:

Material	PA					
dimensions mm outer/inner	temperature °C				weight g/m	bending radius min. mm
	20	40	60	80		
4/2	136	99	77	65	9,9	24
5/3	102	74	59	49	13,2	30
6/4	80	59	46	37	16,5	36
8/6	59	43	34	28	23,1	50
10/8	43	31	25	22	29,7	80
12/10	37	28	22	19	36,3	118
14/12	31	22	19	15	42,9	163
15/12,5	37	28	22	19	56,7	90
16/12	59	43	34	28	92,4	100
18/15	37	28	22	19	81,6	177
22/18	40	28	22	19	131,9	196

PA12HIPHL-DIN

We manufacture the brake tubes strictly according to the DIN 74324 quality standard which requires a black colour.

Vehicle tubes are manufactured according to the DIN 73378 quality standard, which offers many colour alternatives.

Technical information

Material	Polyamide PA12HIPHL-DIN
Hardness	63 Shore D ISO 868
Installation temperature	-20 °C ... +93 °C
Working temperature	-40 °C ... +93 °C
Operating pressure	Recommendation: 1/3 of burst pressure
Tolerances	According to DIN 74324
Colours	Black in DIN 74324. Red, blue, yellow in DIN 73378
Dimensions	Outer diameter 4,0 mm...18 mm / inner diameter 2,0 mm...14,0 mm
Density	1,03 g/cm³ according to the ISO 1183 testing method

Burst pressure in different temperatures:

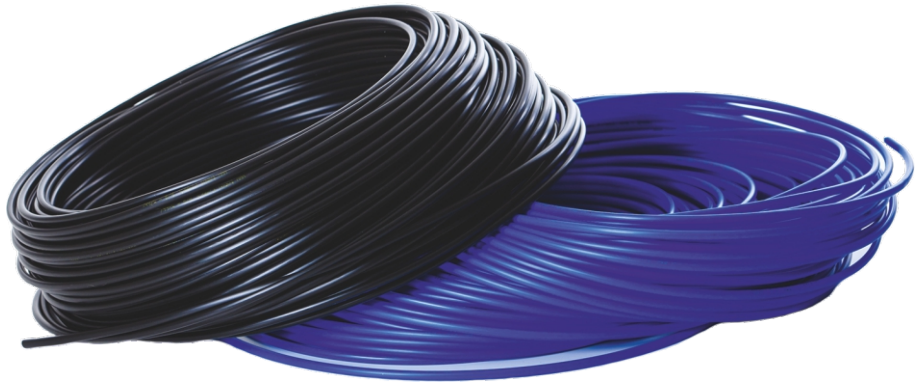
Material	PA12HIPHL-DIN					
dimensions mm outer/inner	temperature °C 20	40	60	80	weight g/m	bending radius min. mm
4/2	132	96	75	63	9,9	24
6/4	78	57	45	36	16,5	36
6,4/4,3	78	57	45	36	18,5	38
8/6	57	42	33	27	23,1	50
9/6	78	57	45	36	37,1	54
9,5/6,4	78	57	45	36	40,6	57
10/7	69	51	39	33	42,1	60
10/8	42	30	24	21	29,7	80
11/8	63	45	36	30	47,0	66
12/9	57	42	33	27	52,0	75
12,7/9,5	57	42	33	27	58,6	79
14/10	66	48	39	30	79,2	84
15,8/11,2	66	48	39	30	102,4	95
16/12	57	42	33	27	92,4	100
18/14	48	36	27	24	106,0	129

PUR

Flexible tube which performes especially well in low temperatures but can be used in high temperature applications too.

It has excellent abrasion resistance and very good elasticity but there is no plasticizers used.

Can be used in pneumatics, industrial robots and instrumentation lines.



Technical information

Material	Polyurethane
Hardness	53 Shore D
Installation temperature	-30 °C ... +50 °C
Working temperature	-40 °C ... +80 °C
Operating pressure	Recommendation: 1/3 of burst pressure
Tolerances	According to DIN 74324
Colours	Silver, black, blue (yellow, red, green, natural) etc.
Dimensions	Outer diameter 3,0 mm...25,0 mm / inner diameter 2,0 mm...21,0 mm
Chemical resistance	Excellent chemical resistance against oils, hydraulic fluids and fuels
Density	1,23 g/cm³ according to the ISO 1183-1-A testing method

Burst pressure in different temperatures:

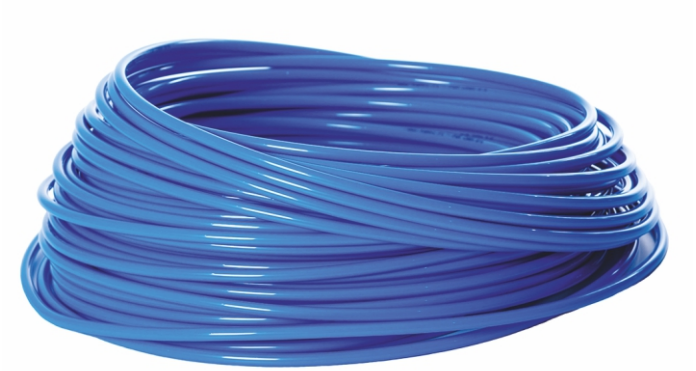
Material	PUR (Polyurethane)					
dimensions mm outer/inner	temperature°C				weight g/m	bending radius min. mm
	20	40	60	80		
4/2	59	47	34	27	1,1	9
4,3/2,8	37	28	22	16	1,0	15
5/3	44	34	28	21	1,5	14
5/3,1	40	31	25	19	1,5	15
6/3,9	37	28	22	16	2,0	20
6/4	34	28	22	16	1,9	21
8/5,7	31	22	19	15	3,0	34
8/6	25	19	16	12	2,7	40
9,5/6,4	34	28	22	17	4,7	35
10/7	31	25	19	16	4,9	40
10/8	19	16	12	9	3,4	64
12/9	25	19	16	13	6,0	60
14/11	22	16	12	10	7,2	83
15/12,5	16	12	9	7	6,6	118

PUR C98A

Flexible tube which performes especially well in low temperatures but can be used in high temperature applications too.

It has excellent abrasion resistance and very good elasticity but there is no plasticizers used.

Can be used in pneumatics, industrial robots and instrumentation lines.



Technical information

Material	Polyurethane C98A
Hardness	98 Shore A
Installation temperature	-30 °C ... +50 °C
Working temperature	-40 °C ... +80 °C
Operating pressure	Recommendation: 1/3 of burst pressure
Tolerances	According to DIN 74324
Colours	Silver, black, blue (yellow, red, green, natural) etc
Dimensions	Outer diameter 3,0 mm...16,0 mm / inner diameter 2,0 mm...13,0 mm
Chemical resistance	Excellent chemical resistance against oils, hydraulic fluids and fuels
Density	1,22 g/cm³ according to the ISO 1183-1-A testing method

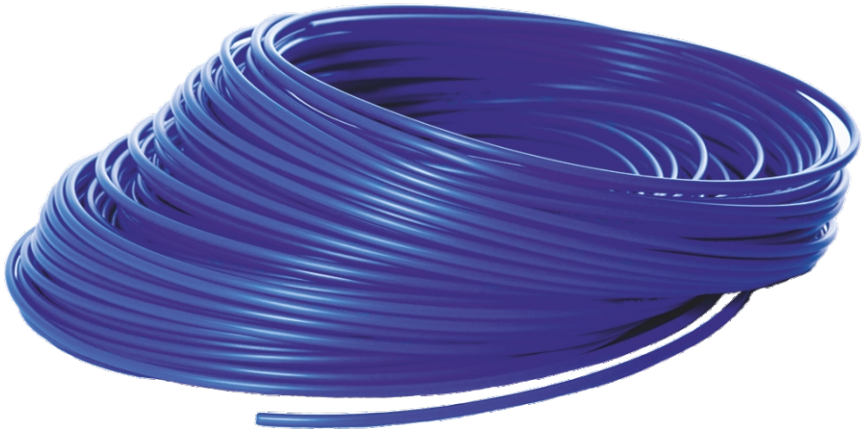
Burst pressure in different temperatures:

Material	PUR C98A (Polyurethane)					
dimensions mm outer/inner	temperature °C				weight g/m	bending radius min. mm
	20	40	60	80		
4/2	57	45	33	26	1,1	9
4,3/2,8	36	27	21	15	1,0	15
5/3	42	33	27	20	1,5	14
5/3,1	39	30	24	18	1,5	15
6/3,9	36	27	21	15	2,0	20
6/4	33	27	21	15	1,9	21
8/5,7	30	21	18	14	3,0	34
8/6	24	18	15	12	2,7	40
9,5/6,4	33	27	21	16	4,7	35
10/7	30	24	18	15	4,9	40
10/8	18	15	12	9	3,4	64
12/9	24	18	15	13	6,0	60
14/11	21	15	12	10	7,2	83
15/12,5	15	12	9	7	6,6	118

PE-LD

Low density polyethylene tube has competitive price and reasonable heat and pressure resistance. It is suitable for recycling using modern methods of shredding and cleaning.

Good chemical resistance. PE-LD tubing is often used in pneumatic equipment due to its easy installation.



Technical information

Material	PE-LD
Installation temperature	-30 °C ... +50 °C
Working temperature	-40 °C ... +80 °C
Operating pressure	Recommendation: 1/3 of burst pressure
Tolerances	According to DIN 74324
Colours	Natural, black, blue, (yellow, red, green, silver) etc.
Dimensions	Outer diameter 4,0 mm...22 mm x inner diameter 2,0 mm...18,0 mm
Chemical resistance	Good chemical resistance against gases and liquids
Density	0,922 g/cm³ according to the ISO 1183 testing method

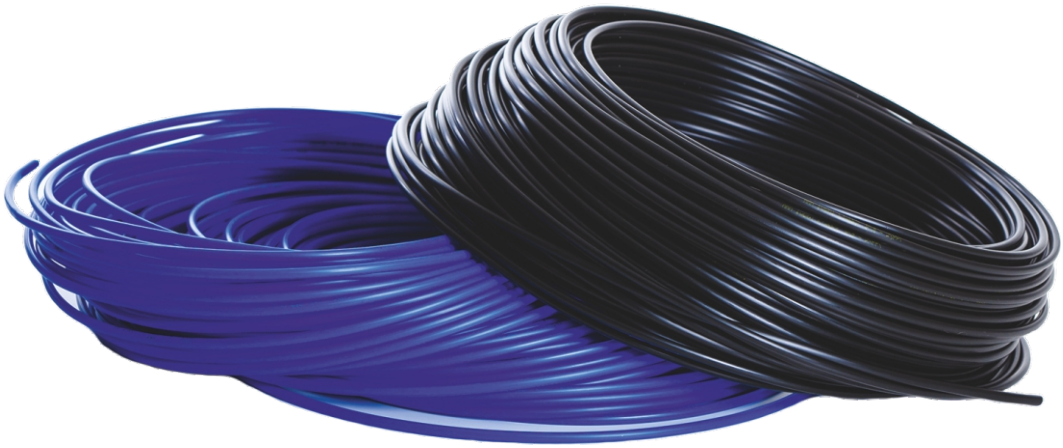
Burst pressure in different temperatures:

Material	PE-LD				
dimensions outer/inner	temperature °C			weight g/m	bending radius min. mm
	20	40	60		
4/2	50	25	12,5	9,9	24
5/3	37,5	20	10	13,2	30
6/4	30	15	7,5	16,5	36
8/6	20	10	5	23,1	50
10/8	15	7,5	5	29,7	80
12/9	20	10	5	52,0	75
14/12	10	5	2,5	42,9	163
15/12,5	12,5	7,5	2,5	56,7	147
16/12	20	10	5	92,4	100
20/16	15	7,5	5	118,8	161
22/18	15	7,5	5	131,9	196

PES (PE-LLD)

Linear low density polyethylene tube with good chemical resistance and competitive price.

Mostly used in pneumatics and in installations where gas and chemical contact is required.



Technical information

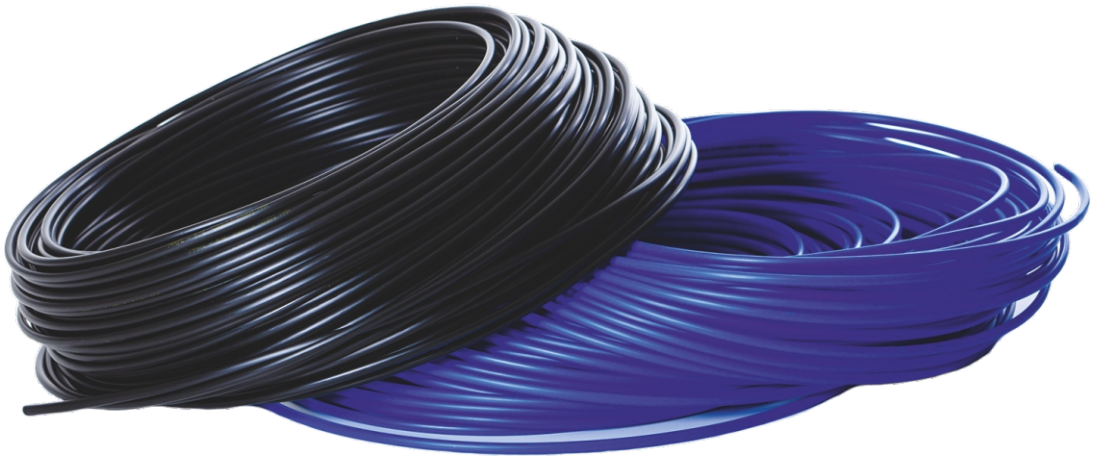
Material	PES (PE-LLD)
Installation temperature	-30 °C ... +50 °C
Working temperature	-40 °C ... +80 °C
Operating pressure	Recommendation: 1/3 of burst pressure
Tolerances	According to DIN 74324
Colour	Blue, natural, black. Other colours by request.
Dimensions	Outer diameter 4,0 mm...22 mm x inner diameter 2,0 mm...18,0 mm
Chemical resistance	Good chemical resistance against gases and liquids
Density	0,931 g/cm³ according to the ISO 1183 testing method

Burst pressure in different temperatures:

Material	PES (PE-LLD)					
dimensions mm outer/inner	temperature °C 20	40	60	80	weight g/m	bending radius min. mm
4/2	96	66	45	30	8,8	24
5/3	72	51	33	24	11,7	30
6/4	57	39	27	18	14,6	36
8/6	42	30	18	11	20,5	50
10/7	42	30	18	12	37,3	70
10/8	30	21	15	9,5	26,3	80
12/9	42	30	18	12	46,1	75
12/10	30	21	15	8	32,2	130
14/12	21	15	9	3	38,0	163
15/12,5	24	18	12	6	50,3	147
16/12	42	30	18	12	81,9	100
20/16	30	21	15	9	105,3	161
22/18	27	18	12	6	117,0	196

PE-HD

Cost-effective tube with superior chemical resistance. High impact strength for more demanding applications.



Technical information

Material	PE-HD High-density polyethylene
Hardness	65 Shore D ISO 868
Installation temperature	-30 °C ... +50 °C
Working temperature	-30 °C ... +60 °C, temporarily 100 °C
Operating pressure	Recommendation: 1/3 of burst pressure
Tolerances	According to DIN 74324
Colours	Colours by request
Dimensions	On request
Chemical resistance	Good chemical resistance against gases and liquids

PEX

TuppTube™ PEX is a high density cross linked polyethylene tube which is easy to process. It has excellent resistance against heat, impact and chemicals.

It is mostly used in piping and plumbing parts. Can be used on portable water application too.

Technical information

Material	Cross-linked polyethylene PEX
Hardness	56 Shore D ISO 868
Installation temperature	-30 °C ... +60 °C
Working temperature	-40 °C ... +80 °C (temporarily 100 °C)
Operating pressure	Recommendation: 1/3 of burst pressure
Tolerances	According to DIN 74324
Colours	Black, blue, natural
Dimensions	Outer diameter 4,0 mm...22 mm x inner diameter 2,0 mm...18,0 mm
Chemical resistance	Excellent chemical resistance in lower pressures and temperatures, especially against gases and liquids
Density	0,924 g/cm³ according to the ASTM D792 testing method

Burst pressure in different temperatures:

Material	PEX					
dimensions mm outer/inner	temperature °C				weight g/m	bending radius min. mm
	20	40	60	80		
6/4	70	55	37	23	14,8	40
8/6	52	38	28	19	20,7	60
10/8	43	31	22	14	26,6	80
12/10	39	28	20	12	32,6	100

ToppSpiral™ – handy accessibility with a tailored spiral tube

ToppSpiral™ is a premium quality spiral tube. Its flexibility provides handy accessibility in pneumatic systems. The tube is made of durable polyamid which maintains its shape. For vertical installations we recommend a semi-rigid quality, and for horizontal installations a rigid quality.

We manufacture ToppSpiral™ spiral tubes to order.

Technical infomation

Recommendation	For horizontal fitting medium hard polyamide, for vertical fitting hard polyamide
Spiral diameter	Minimum 22 mm, maximum 320 mm
Tube diameter	Outer diameter 4 mm - 25 mm, inner diameter 2 mm - 19 mm
Colour	Blue, other colours by request
Ordering	The spirals are manufactured by request

toppi

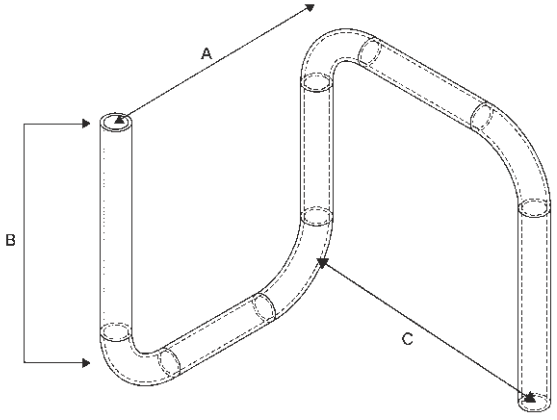
Tubes **ToppPart™**

ToppPart™ – pre-bent tubes

The pre-bent ToppPart™ tubes are designed for instant installations in pneumatic and liquid applications. Hence, the installation of ToppPart™ tubes is very fast and easy. And less time in installations means savings.

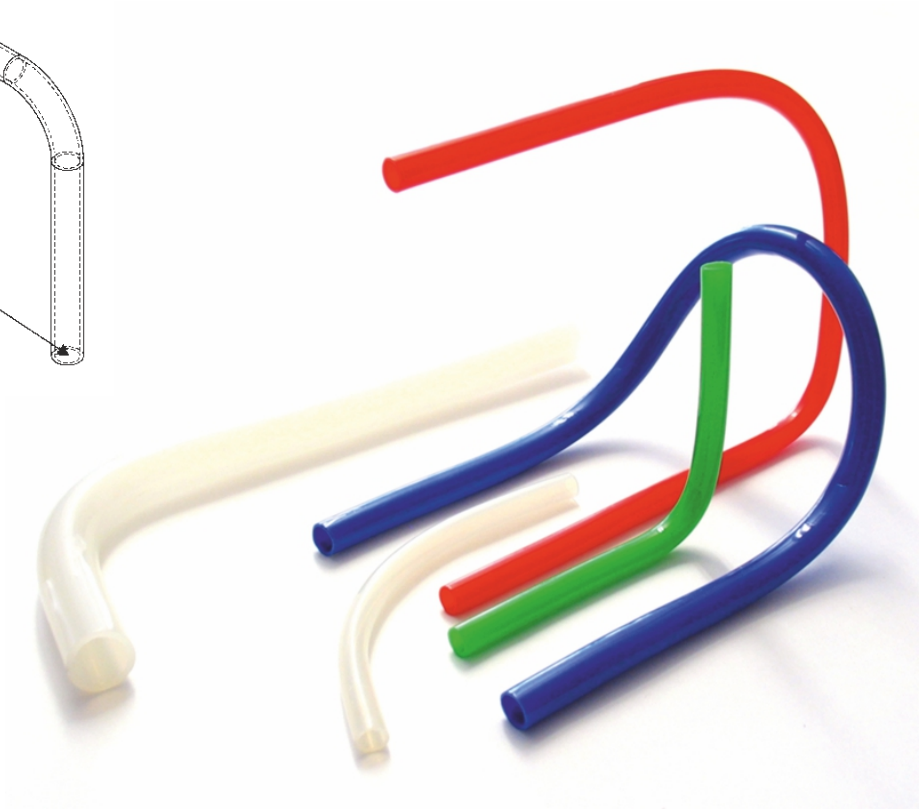
ToppPart™ tubes are an alternative to places where there is no room for conventional tubing or where metal tubes cannot be installed. ToppPart™ tubes are tailored according to customer's specific needs. We can manufacture both 2D and 3D shapes using our unique state of the art CNC bending technology.

A, B and C refers to the length between bends, these can be between 120 mm – 2000 mm. We will be happy to consider the dimensions on request.



ToppPart™

Easy and fast installation!



One Product – multiple solutions

A ToppMulti™ cable is a selection of e.g. pneumatic tubes, fluid tubes, electrical cables and optical fibres combined into one cable.

We manufacture the ToppMulti™ cables according to our customers specific needs.

Technical information

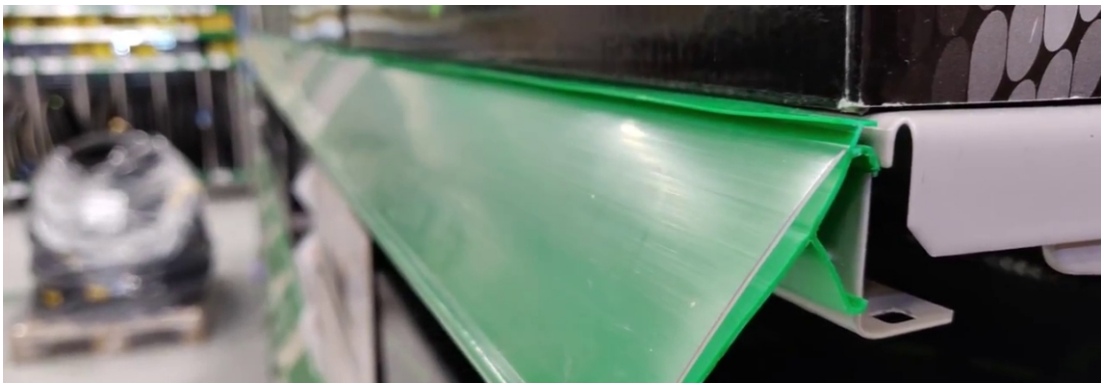
General	Extruded PE- (Polyethylene) PA- (Polyamide) or PUR- (Polyurethane) tubes in
	variable combinations covered with a PVC jacket. Other materials in tubing and jacket on request
Working pressure	See separate tube leaflets for information
Temperature range	See separate tube leaflets for information
Quality control	Continuous measurement of tube outer diameter from two directions, wall thickness at
	six points. Regular control of the tubes burst pressure
Tolerance of tubes	Complying DIN 74324
Number of tubes	1-19 pcs., the maximum number of tubes depends on the individual tube sizes
Electrical cables	Optional for supplying of electrical signals, usually supplied by customer
Jacket	PVC (polyvinyl chloride), black, blue or grey. Other materials on request
Bending radius	Minimum seven (7) times the maximum measure of the jacket
Lengths	Standard length is 500 m, delivered on drum
Protective foil	Polyester, standard thickness 12 µm

Examples	O-3 PE - 6/4 BLA
	L-3 PE - 6/4 BLA
	LAL-3 PE - 6/4 BLA
	OAL-3PE 6/4 BLA
Explanation	
O	More or less round jacket, maximum 3 pcs.filler profiles used
L	Jacket only
LAL	Jacket with aluminium (12 µm) and polyester foil (12 µm), and without filler profiles
OAL	Jacket with aluminium (12 µm) and polyester foil (12 µm), and filler profiles
3	Number of tubes, numbering clockwise begining from center
PE	Polyethylene tubing used. Other materials by request
6/4	Tube size, the tubes can have different colors (max. 6) or numbering
BLA	The color of jacket, other colours on request

toppi
SINCE 1953

Catalogue

PROFILES



Profile by your need

We manufacture rigid and soft ToppProfile™ plastic profiles according to our customers specific needs. These needs can be protection, connection, fastening etc. We can deliver the profiles in requested lengths and also with adhesive tape which provides easy and fast installation.

All the tooling used in manufacturing is made by ourselves in our in-house toolshop which has over 50 years experience in designing tools. With this procedure, we can ensure that our customers will receive a profile which exactly meets their needs.

Materials used in ToppProfiles™ are mainly as follows:

ABS (acrylonitrile-butadiene-styrene)

ASA (acrylonitrile-styrene-acrylate)

PA (polyamid)

PE (polyethylene)

PS (polystyrene)

PUR (polyurethane)

PVC (polyvinylchloride)

We also excel co- and tri-extrusion. With this technique we can integrate different materials and colors into one product.

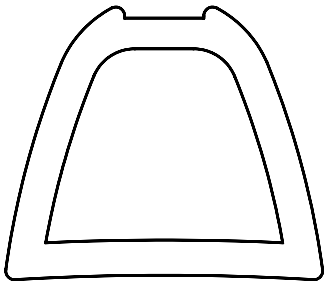
When you need new plastic profile, or need to modify or improve an existing profile, please contact us info@toppi.fi

toppi

ToppFender™

ToppFender™ – protect boats

ToppFender is an extremely tough PVC fender profile commonly used to protect boats from impact on jetties and peers, ToppFender is also ideal for car park walls and warehouses and many other applications where protection from impact in needed. ToppFender can be cut and installed using common wood working tools, and ensuring the perfect fit in even the most difficult installations.

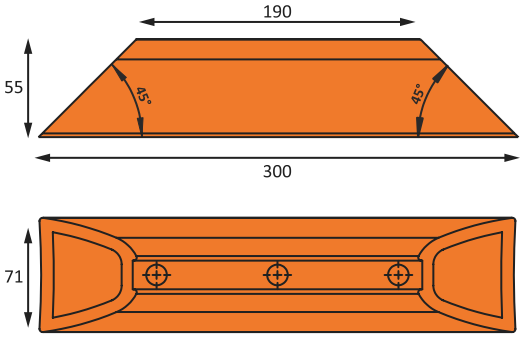


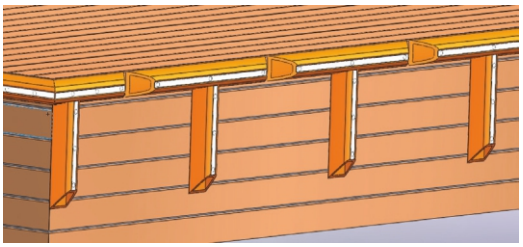
Technical information

Material	PVC (polyvinylchloride), 100% recycled material
Colour	Black
Dimensions	Length 800 x height 55 mm x width 71 mm

ToppFender™ Reflex 30 cm 45/45

ToppFender™ Reflex comes pre-cut with two 45 degree angles and includes high quality stainless steel screws and reflective tape.





Technical information

Material	PVC (polyvinyl chloride)
Colour	Brown, orange, beige, black and grey
DImensions	30 cm x 7,1 cm x 5,5 cm
Other info	Package includes 3 pcs 6 x 50 Torx25 A4 -screws and very effective reflector

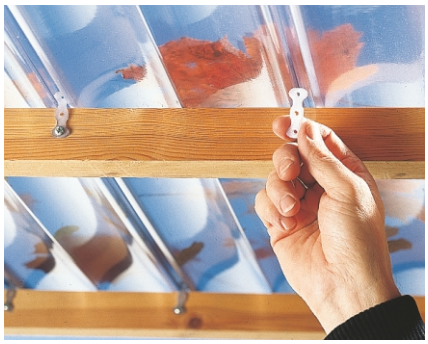
toppi

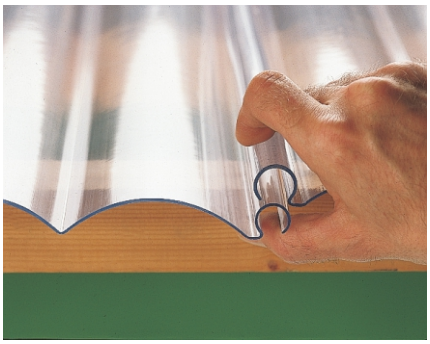
ToppSun™

ToppSun™ – easy roofing solution

ToppSun roof panels have been designed for easy installations and superior durability. ToppSun roof panels are manufactured from the highest quality PVC ensuring excellent UV resistance and durability in the harshest of environments.

ToppSun roofing panels are sold in a variety of lengths and packs include fastening clips and edge profiles to ensure easy installation. Upon request Toppsun can be manufacture to any length any colour, making it the perfect roofing solution for custom installations, MOQ's apply for custom orders.





Technical information

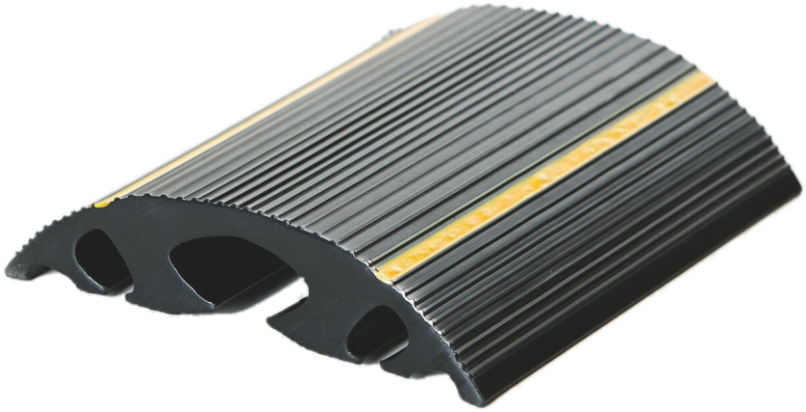
Dimensions	Profile height 24 mm, thickness 1,5 mm, length 2000, 2500 and 3000 mm
	overall width 220 mm, effective width 200 mm (other by request)
Colour	Bright
Thermal expansion	Eliminated by the way of attachment
Snow load resistance	Alternate bays k 600 mm, 1,8 kN/m² - alternate bays k 400 mm, 2,7 kN/m²

toppi

Cable Protector

Cable Protector – protect hoses and cables

New cable protector profile has been designed to protect hoses and cables in the toughest environments. Suitable for both indoor and outdoor use, tough enough to be driven over by cars and forklifts of up to 2ton in at max 20°C. Common applications are in concerts, construction sites, and fairs grounds to name a few.



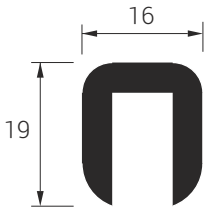
Technical information

Material	PVC
Colour	Black with yellow stripes
Dimensions	160 mm x 35 mm, length 2 meters. Other dimensions and corner pieces by request.

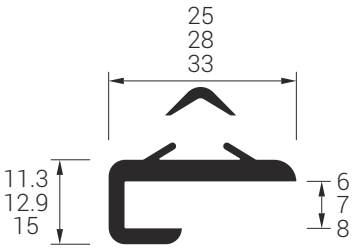
toppi

Boat, wharf and bumper profiles

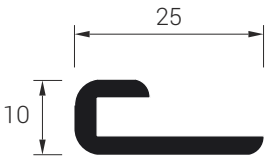
T37



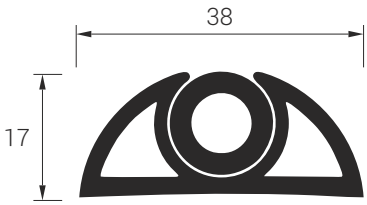
T67



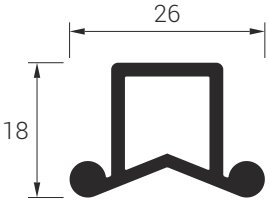
T44



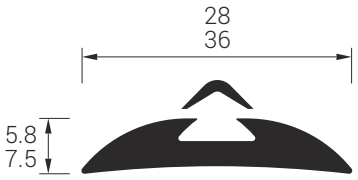
T91



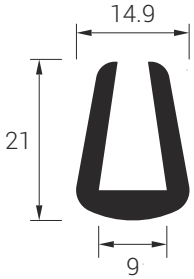
T58



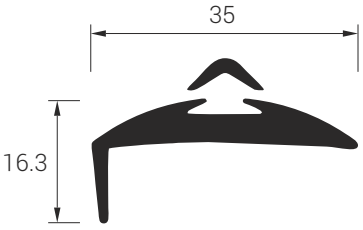
T92



T64



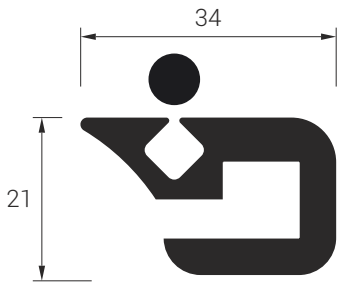
T93



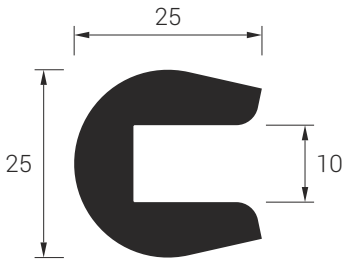
toppi

Boat, wharf and bumper profiles

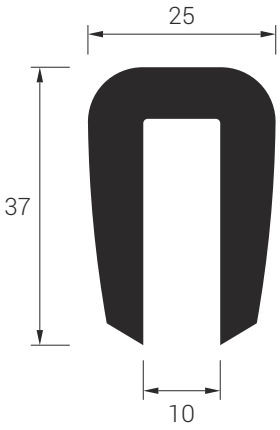
T96



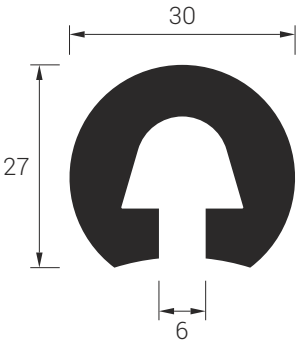
T102



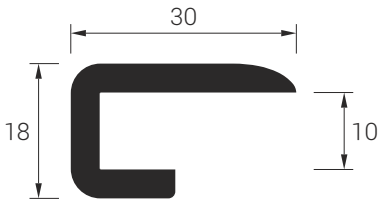
T98



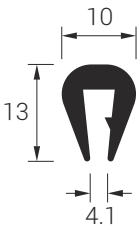
T103



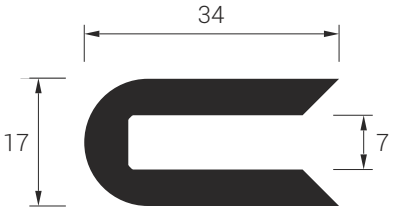
T100



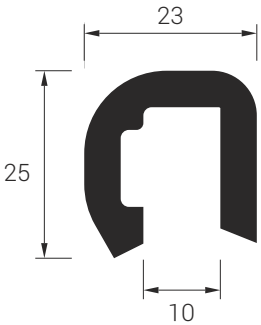
T105



T101



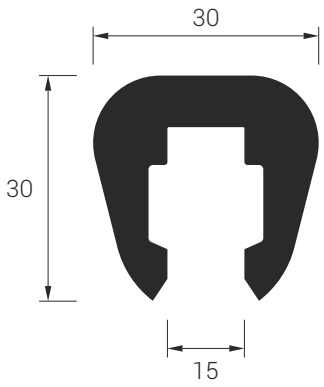
T138



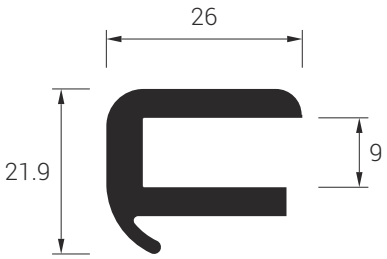
toppi

Boat, wharf and bumper profiles

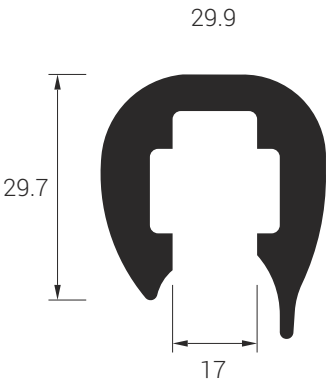
T139



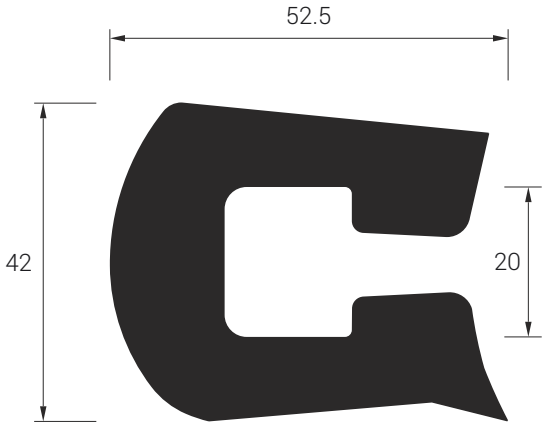
T145



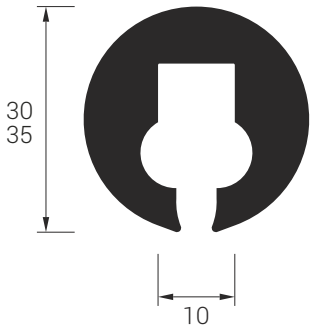
T141



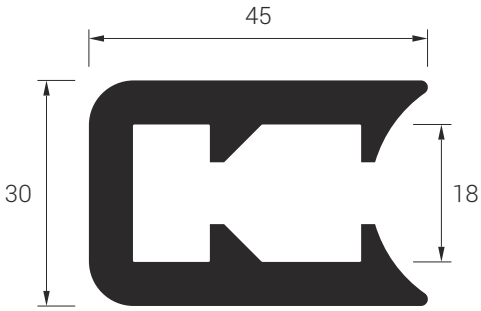
T150



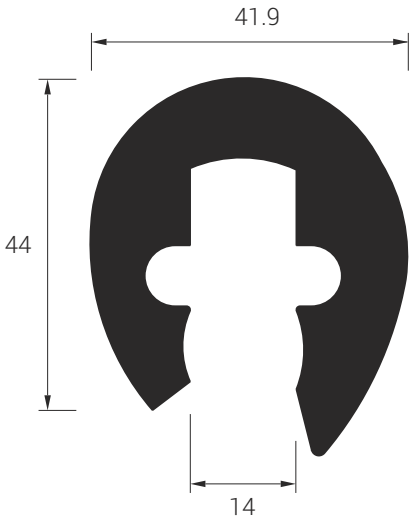
T143



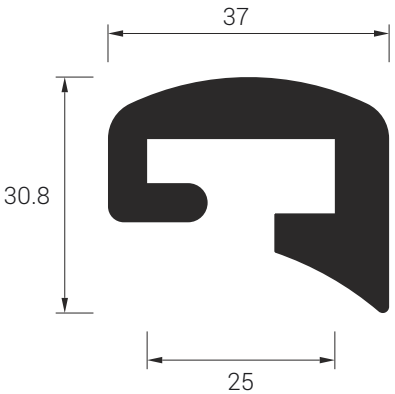
T151



T144



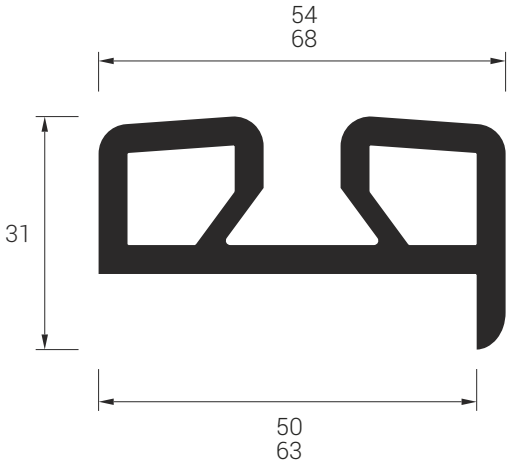
T153



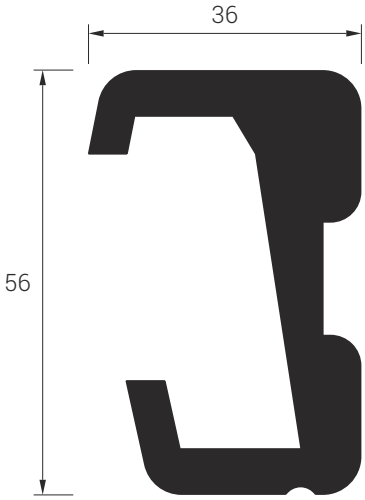
toppi

Boat, wharf and bumper profiles

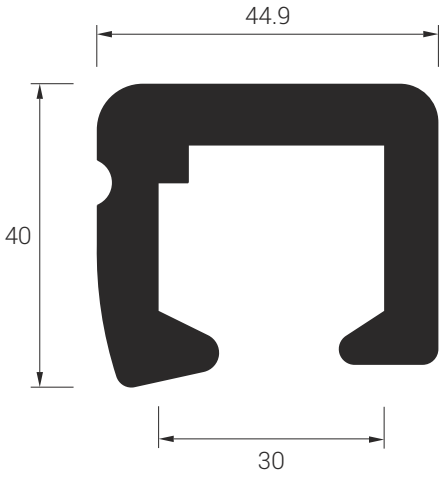
T156



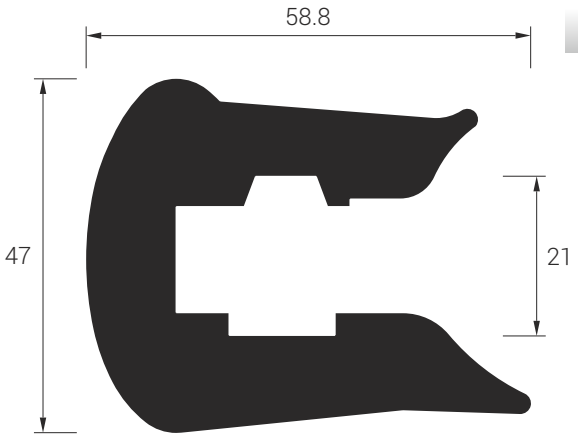
T166



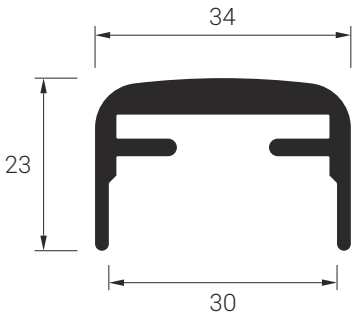
T158



T167

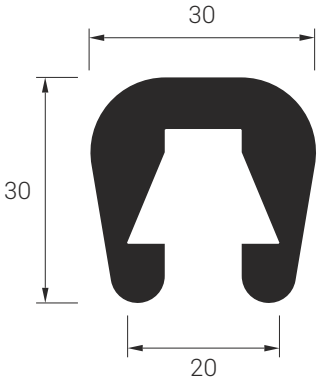


T161

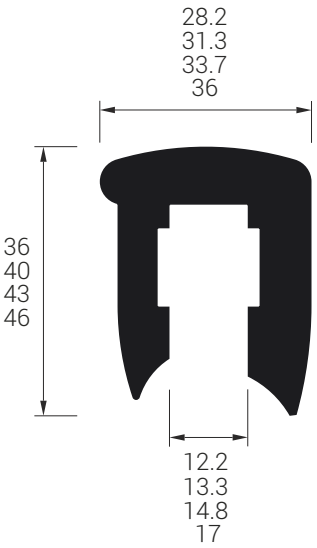


T171

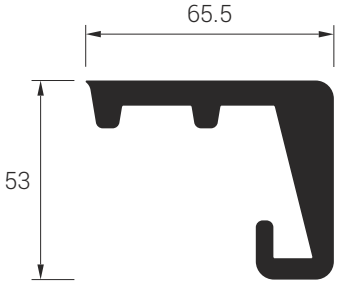
scale 1:2



T164



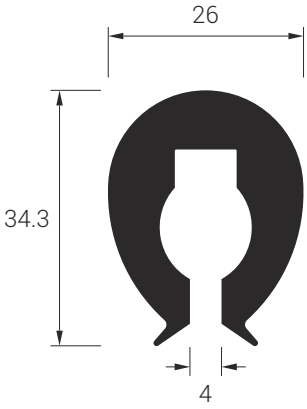
T173



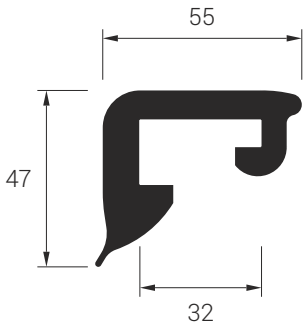
toppi

Boat, wharf and bumper profiles

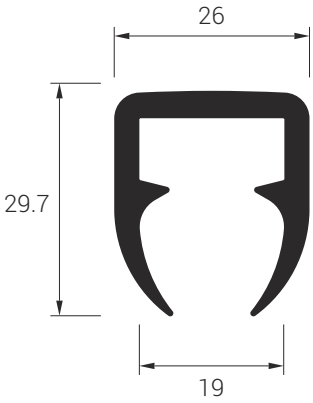
T174



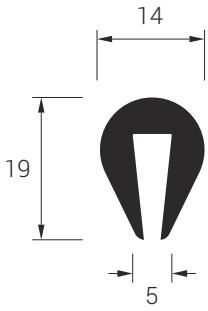
T331



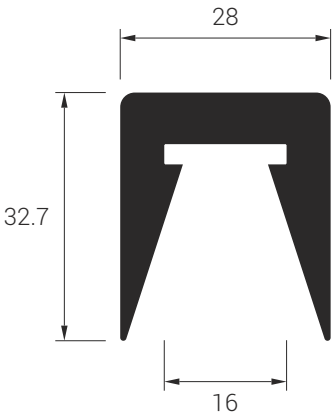
T183



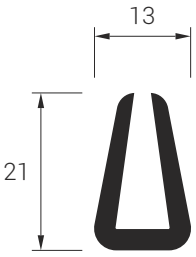
T380



T186

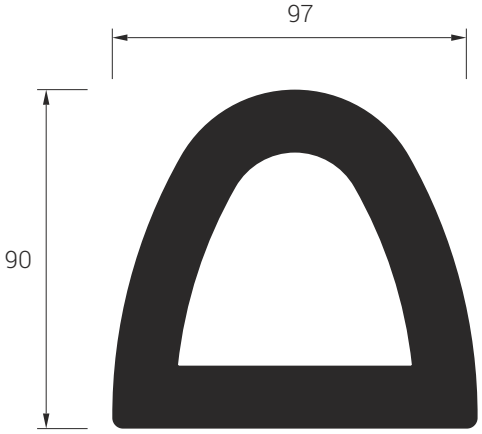


T382

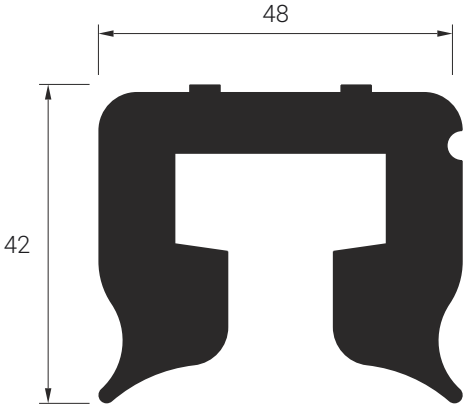


T190

scale 1:2



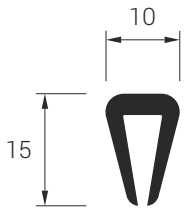
T392



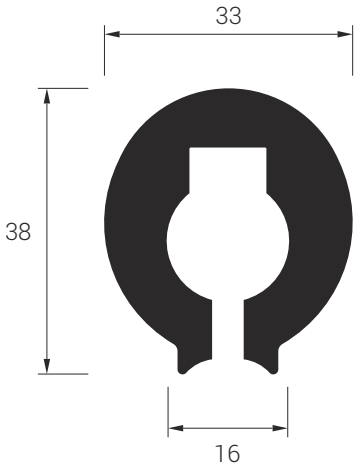
toppi

Boat, wharf and bumper profiles

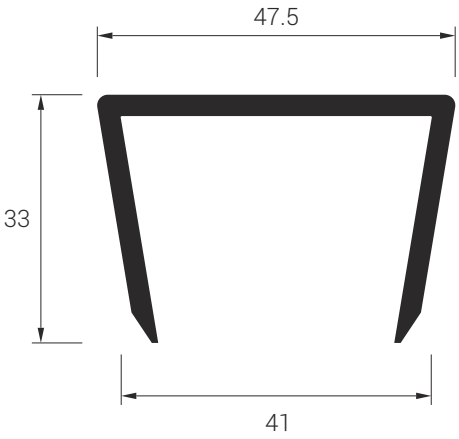
T397



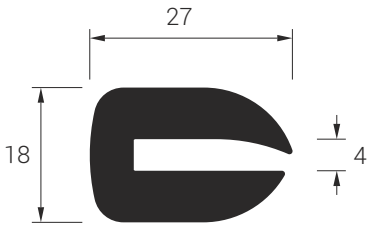
T556



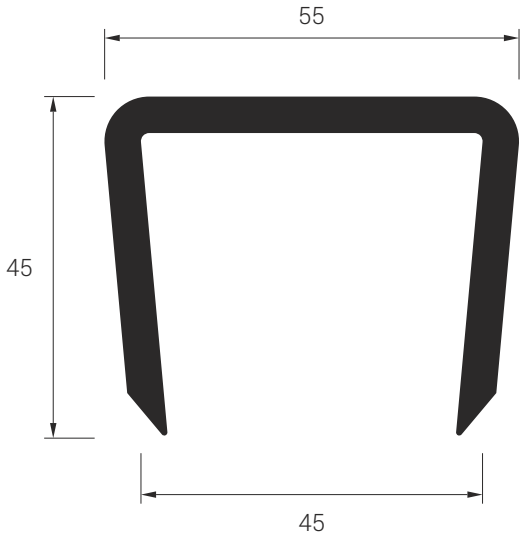
T407



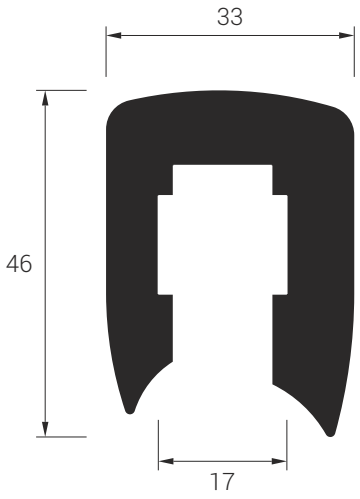
T557



T440

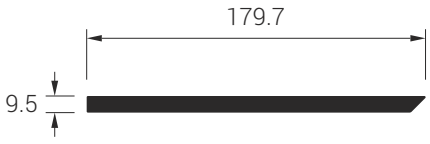


T558

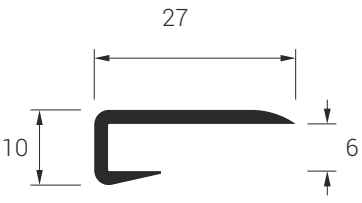


T444

scale 1:4



T574

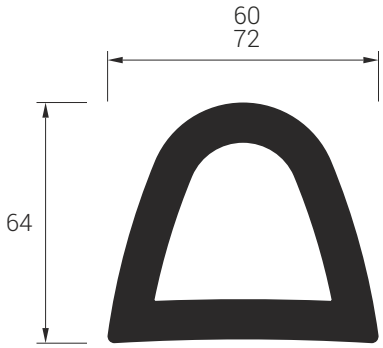


toppi

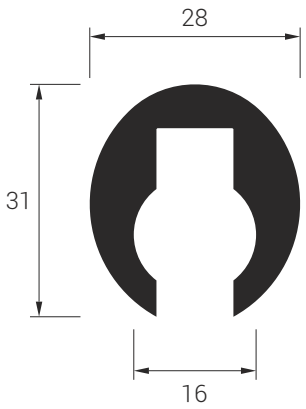
Boat, wharf and bumper profiles

T578

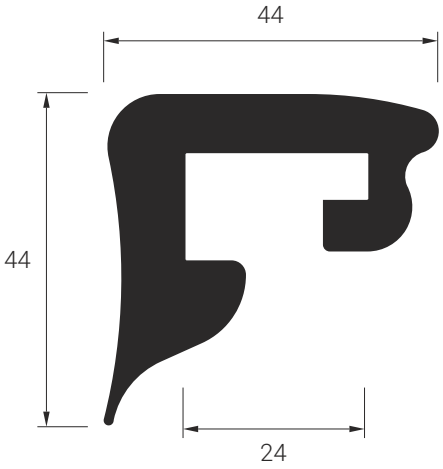
scale 1:2



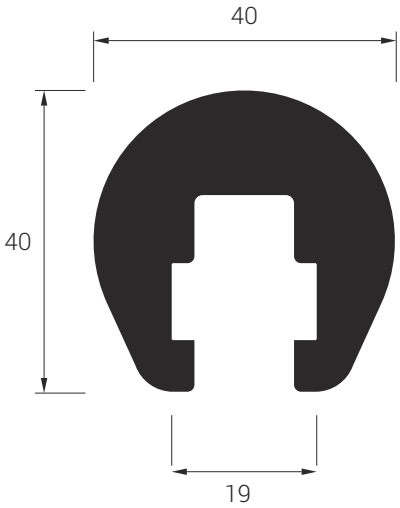
T619



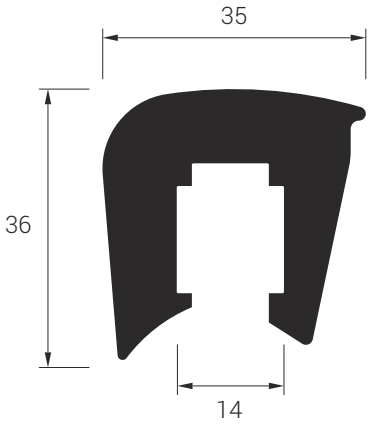
T600



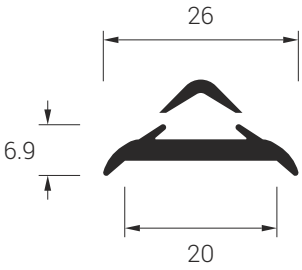
T625



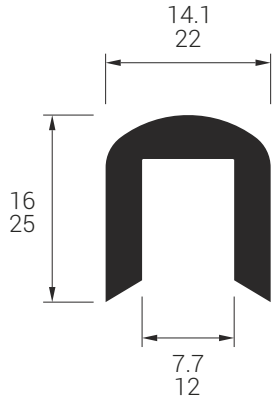
T601



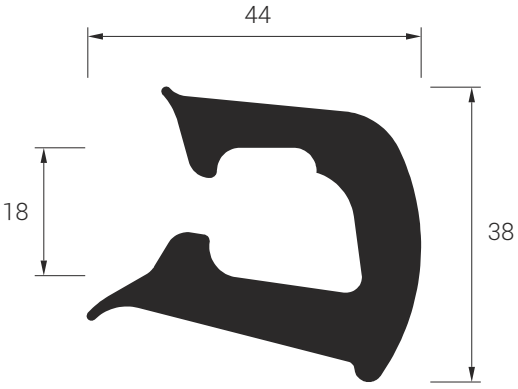
T631



T613



T693

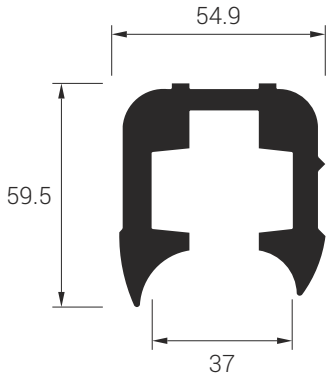


toppi

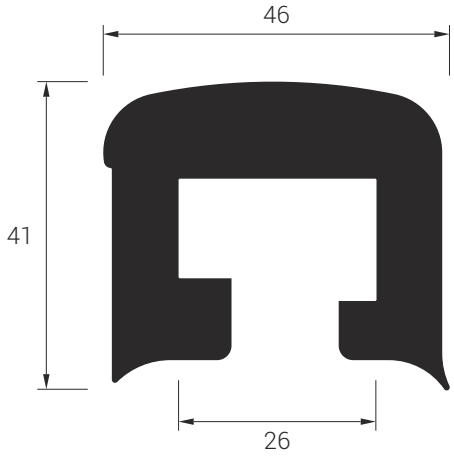
Boat, wharf and bumper profiles

T745

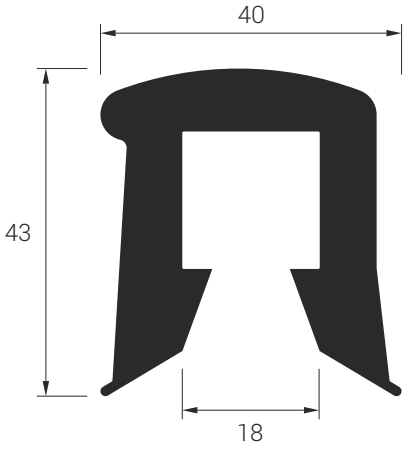
scale 1:2



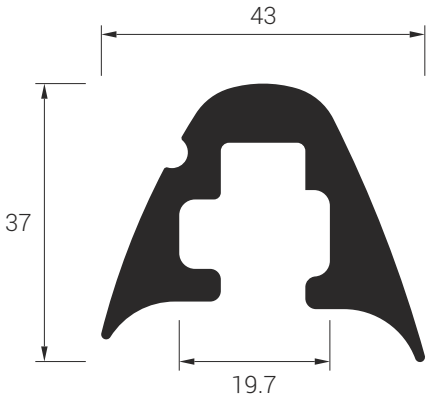
T844



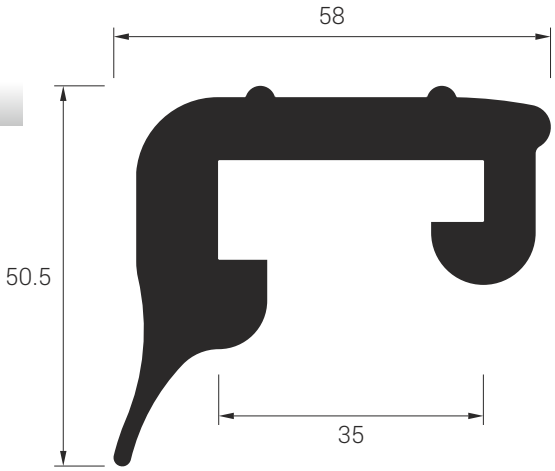
T782



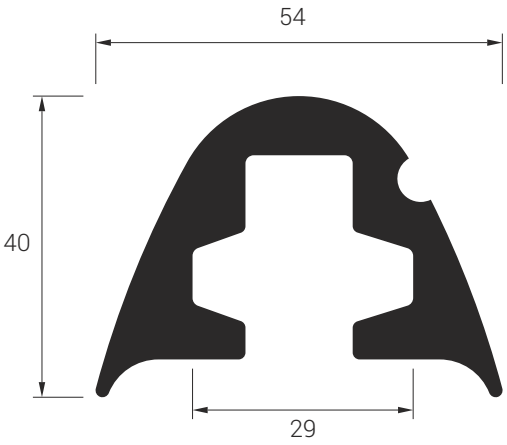
T872



T805

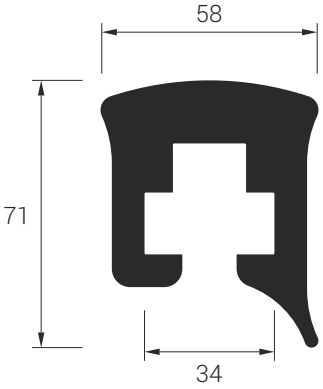


T884



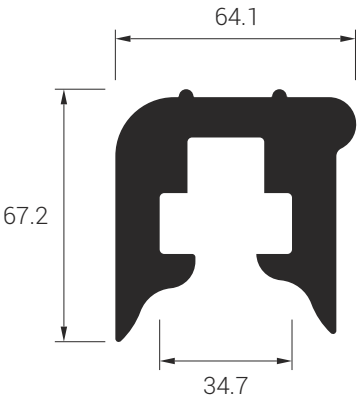
T806

scale 1:2



T966

scale 1:2

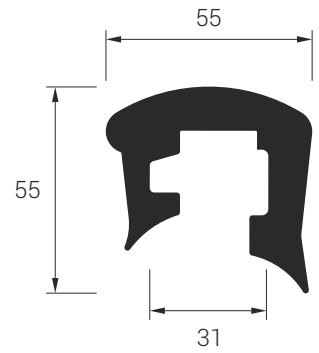


toppi

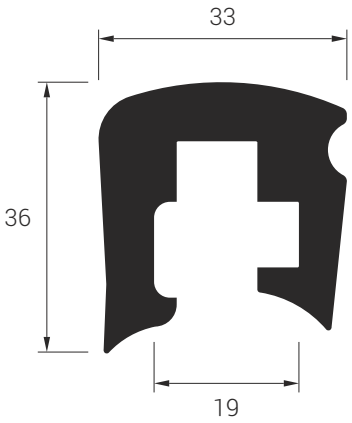
Boat, wharf and bumper profiles

T973

scale 1:2

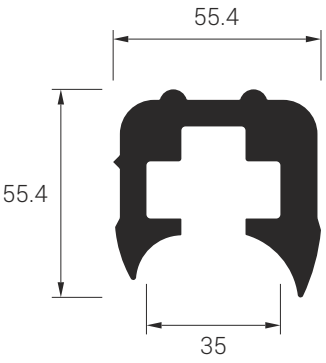


T975

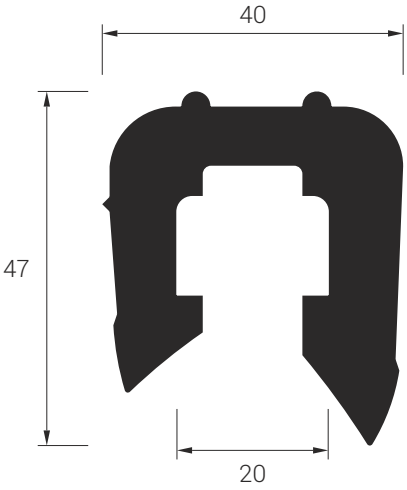


T1000

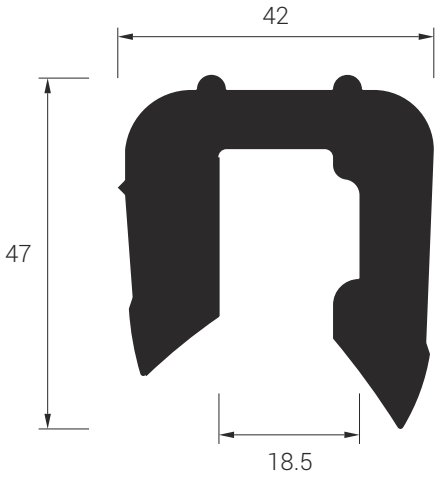
scale 1:2



T1027

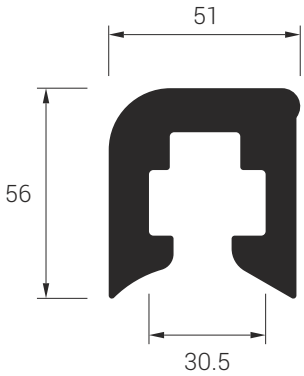


T1035

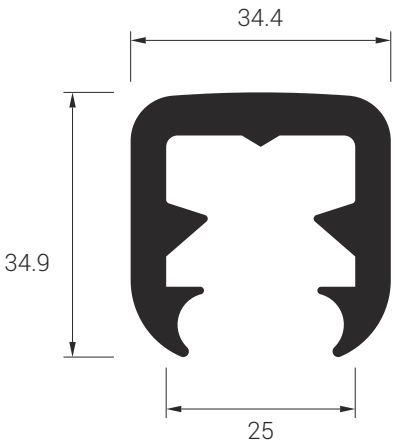


T1071

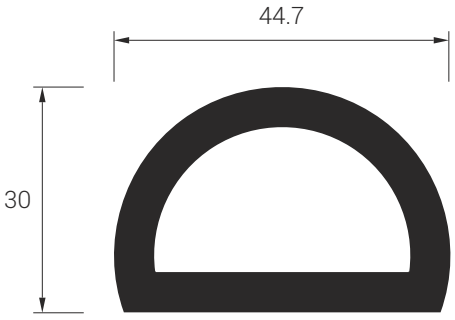
scale 1:2



T1072



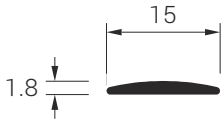
T1074



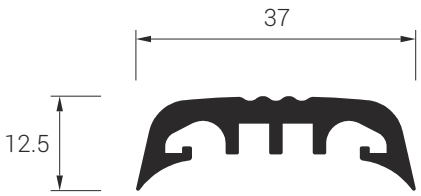
toppi

Boat, wharf and bumper profiles

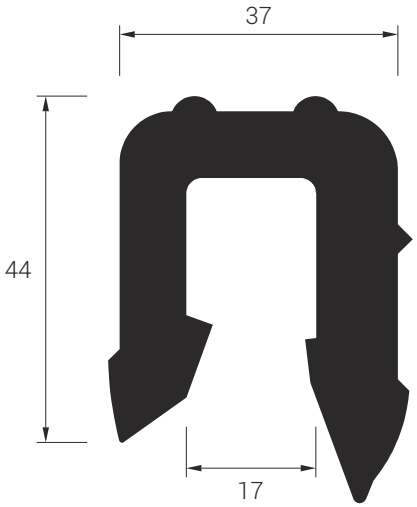
T1124



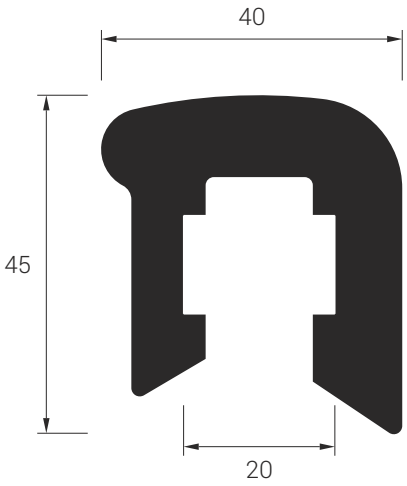
T1122



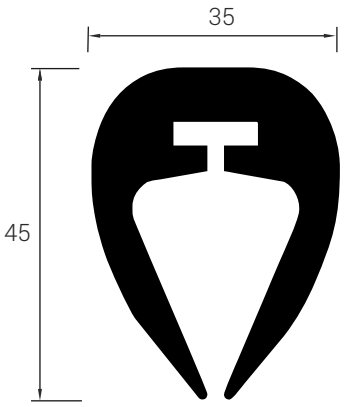
T1198



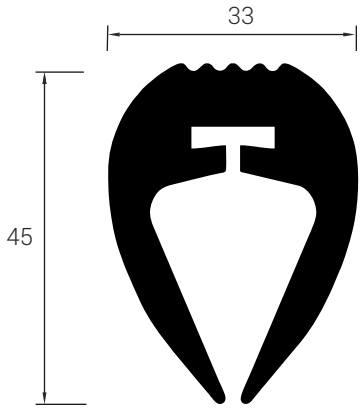
T1092



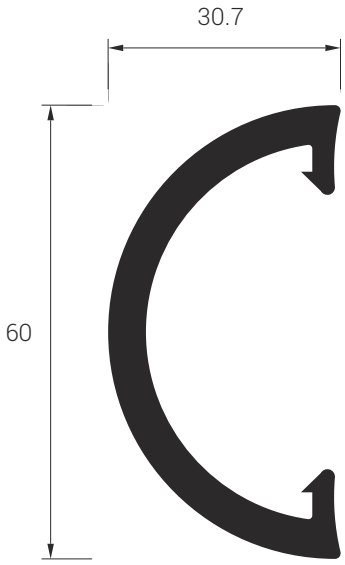
T1360



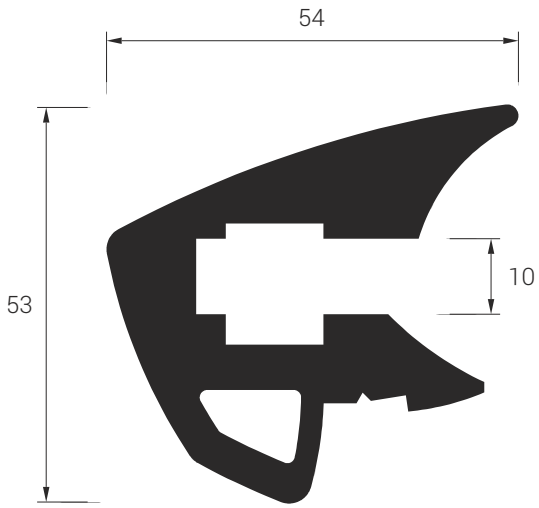
T1123



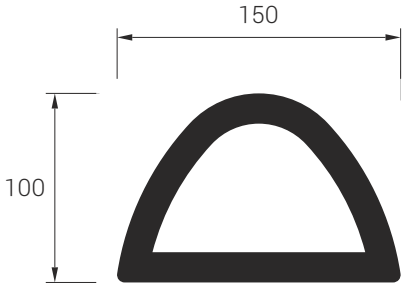
T523



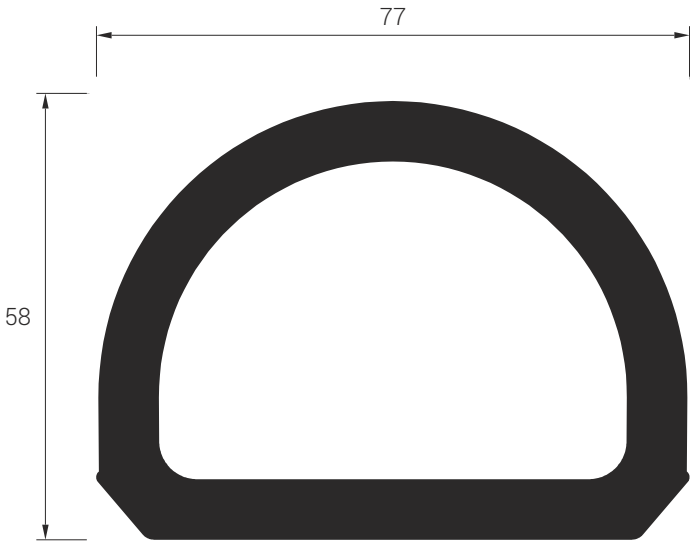
T1576



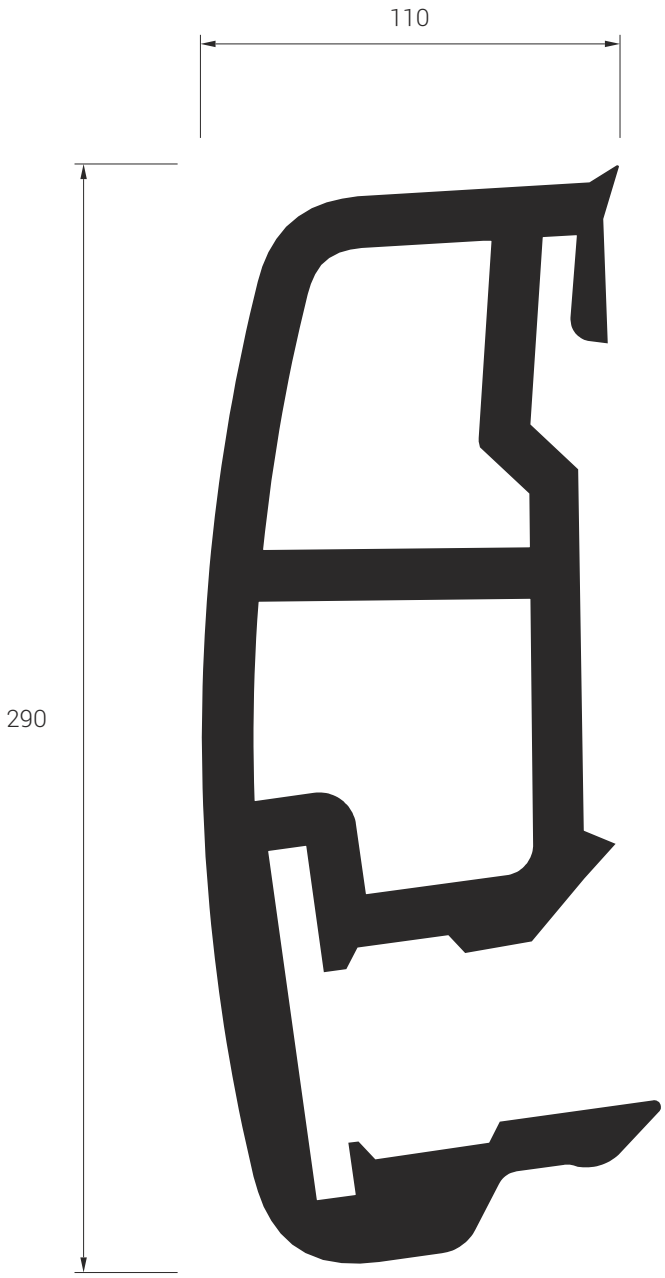
T817



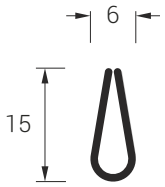
T1530



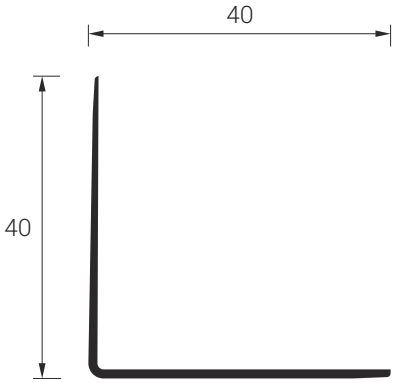
T1603



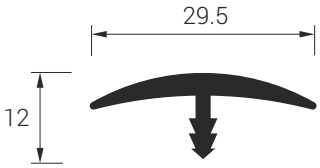
T57



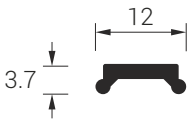
T61



T73



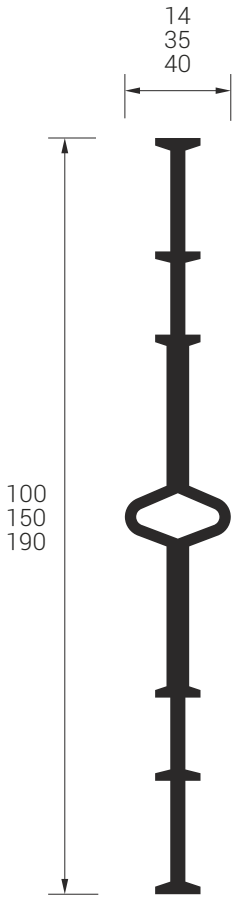
T119



T168

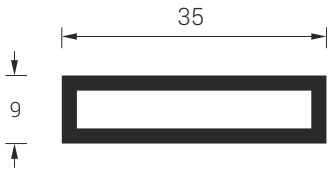
scale 1:2

T169

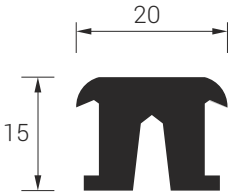


T184

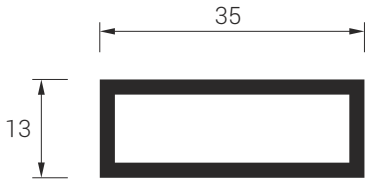
T184



T201

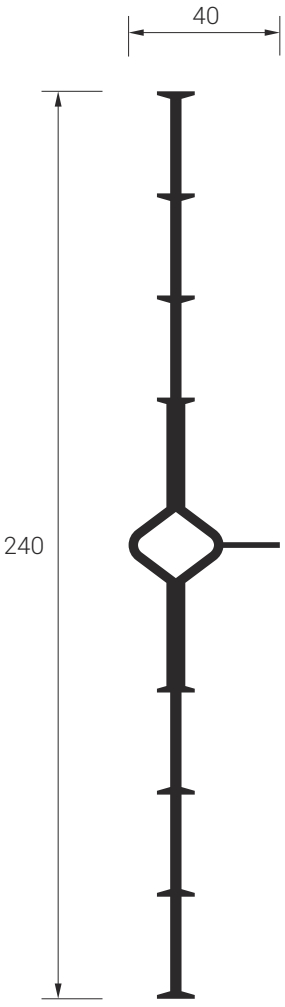


T185

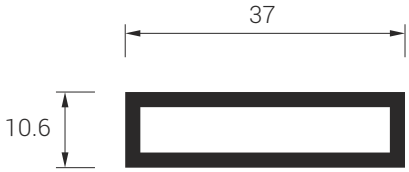


T242

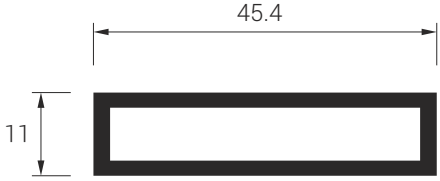
scale 1:2



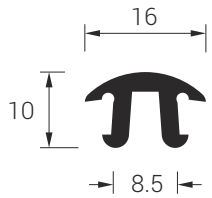
T192



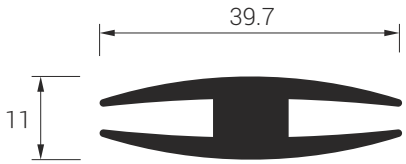
T197



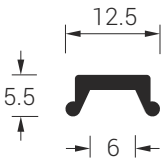
T333



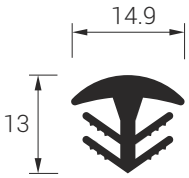
T433



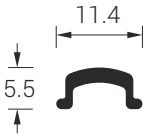
T335



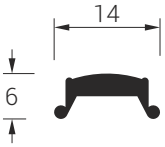
T450



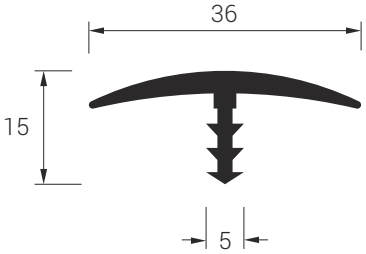
T337



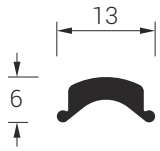
T501



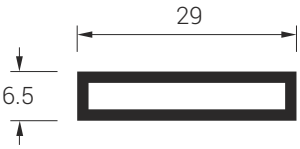
T432



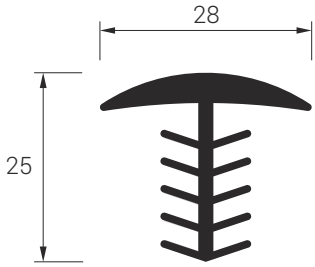
T502



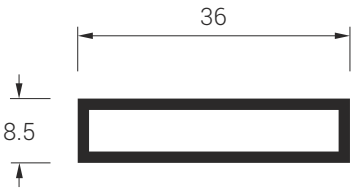
T679



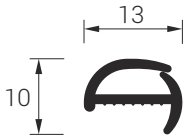
T563



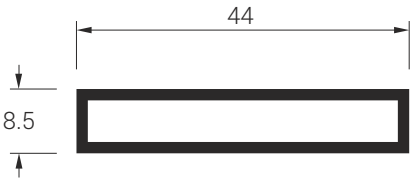
T680



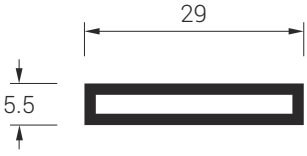
T595



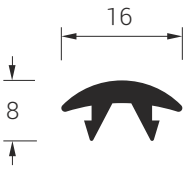
T681



T678

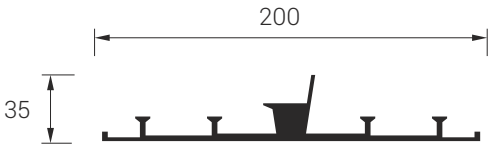


T719

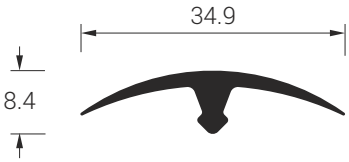


T728

scale 1:4

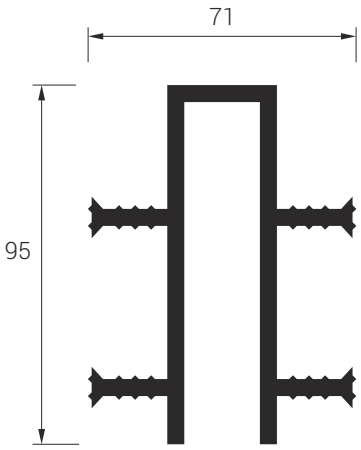


T779



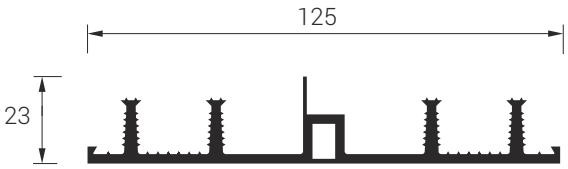
T729

scale 1:8

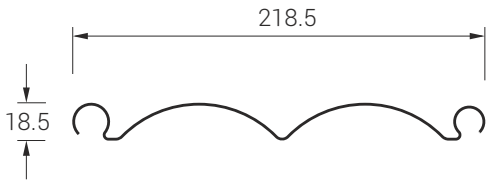


T784

scale 1:4

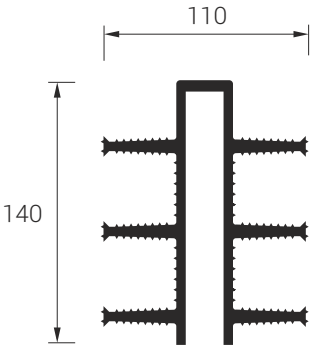


T743

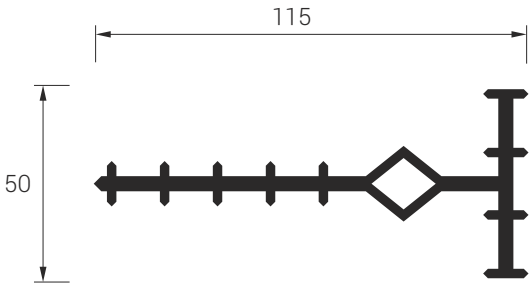


T785

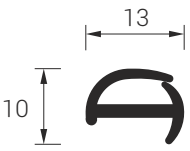
scale 1:4



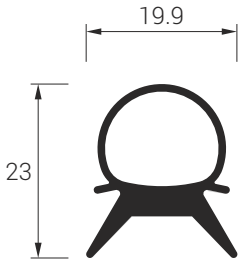
T759



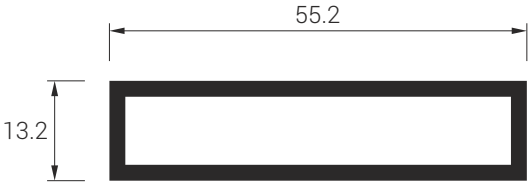
T792



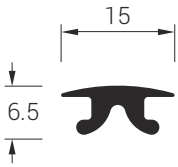
T818



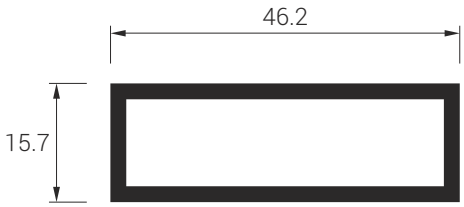
T847



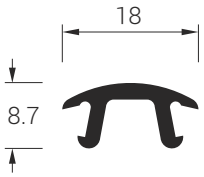
T819



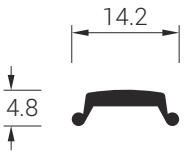
T849



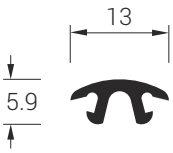
T839



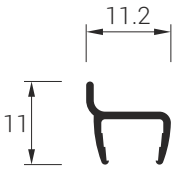
T854



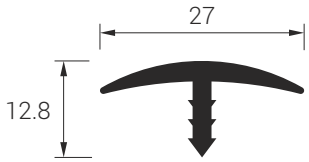
T841



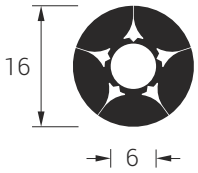
T858



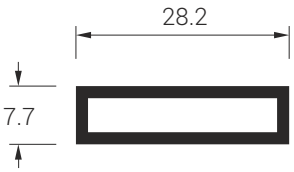
T866



T909

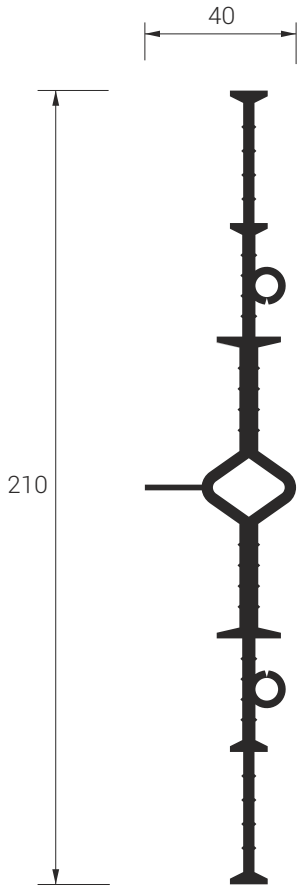


T869



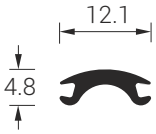
T919

scale 1:2

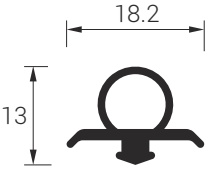


T870

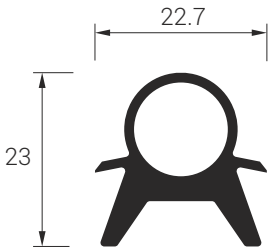
T882



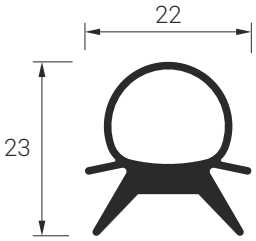
T953



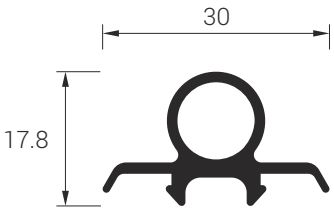
T965



T969

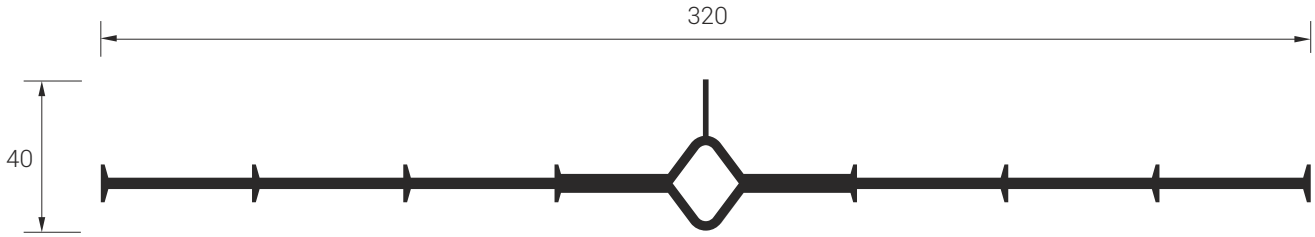


T977

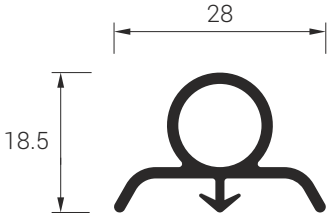


T998

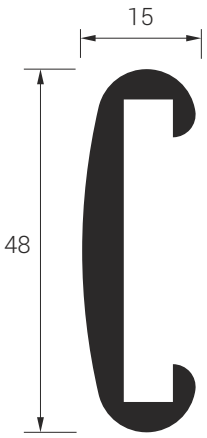
scale 1:2



T1018

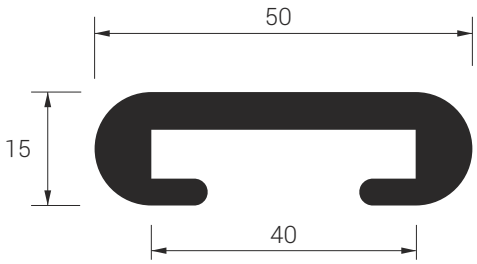


T160

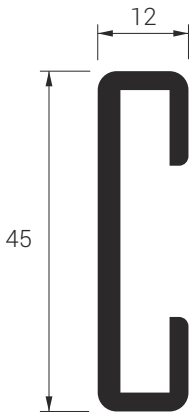


T477

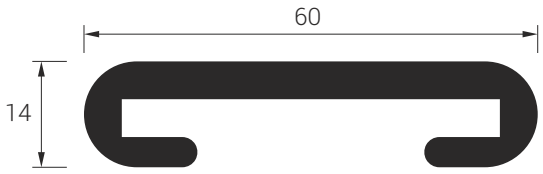
T478



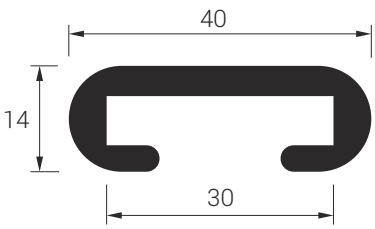
T293



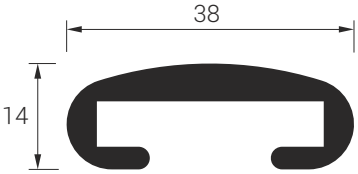
T651



T476



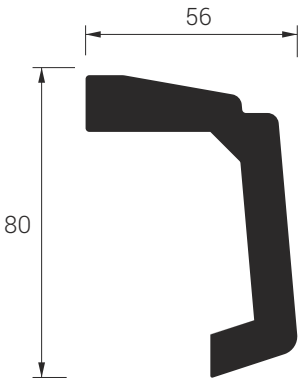
T709



toppi

Railing profiles

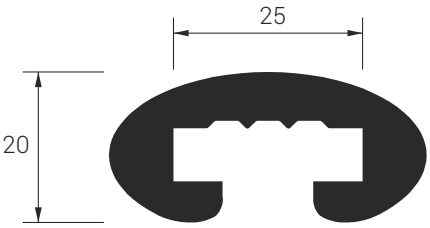
T999



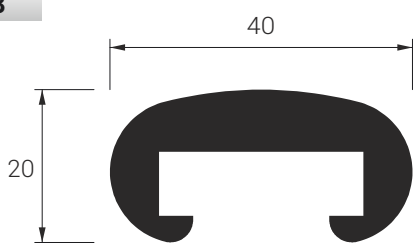
T1451

T1065

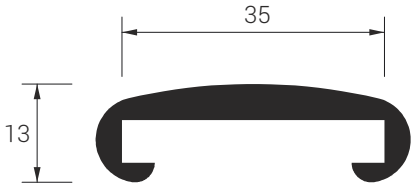
T1502



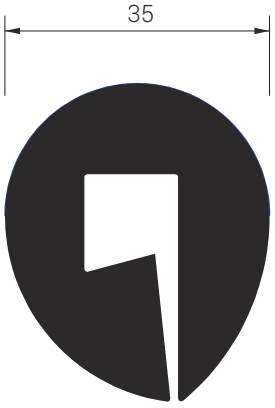
T1328



T1533

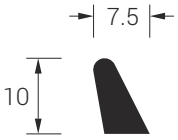


T1450

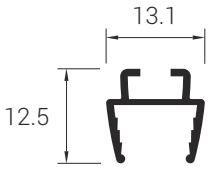


T1605

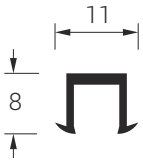
T17



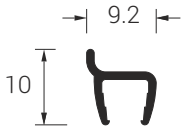
T951



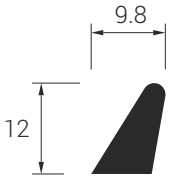
T229



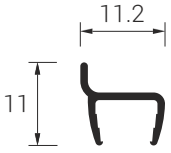
T1077



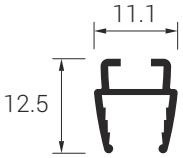
T569



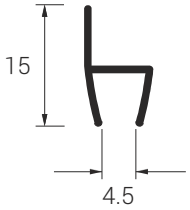
T1078



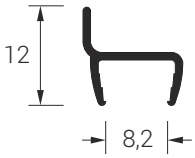
T887



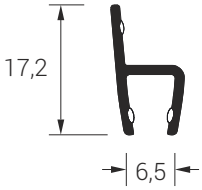
T1215



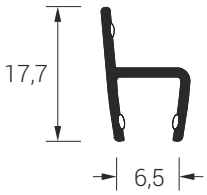
T1307



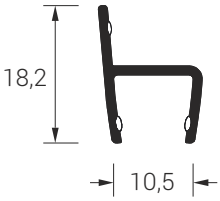
T1373



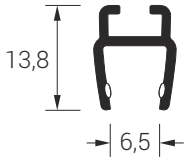
T1370



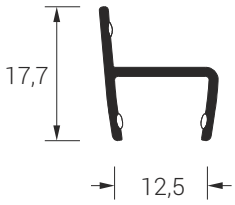
T1374



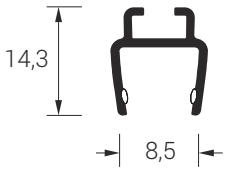
T1371



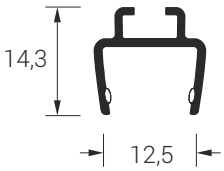
T1389



T1372



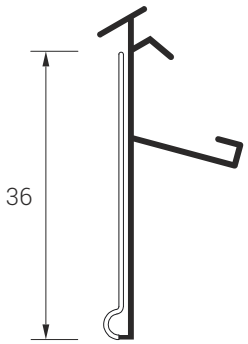
T1390



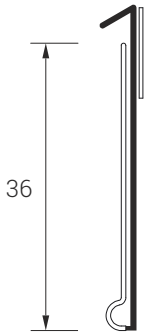
toppi

Price list profiles

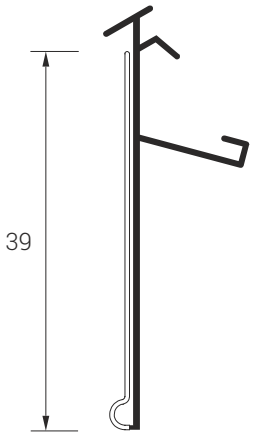
T1336



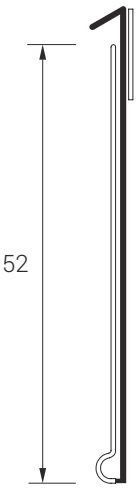
T1339



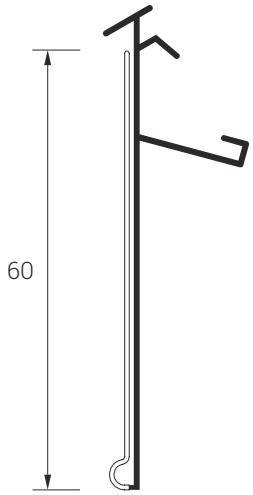
T1337



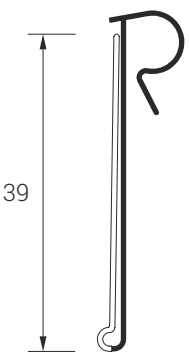
T1340



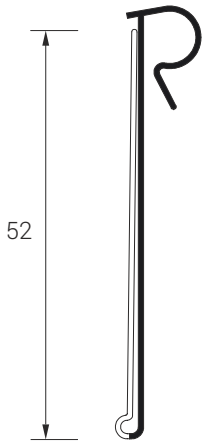
T1338



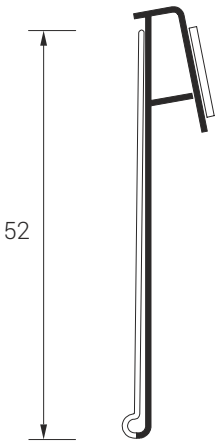
T1341



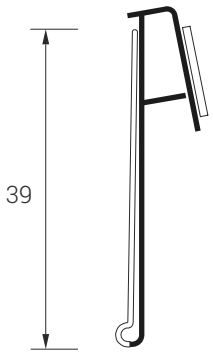
T1342



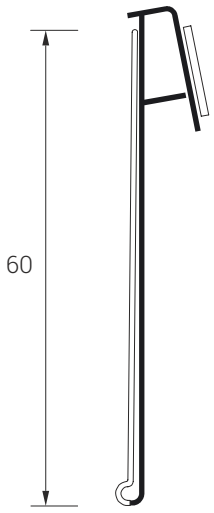
T1351



T1343



T1345



toppi

toppi

toppi

SINCE 1953

Oy Toppi Ab

Tiilismäki 9, 02330 Espoo, Finland

+358 (0)20 7589 820

info@toppi.fi

firstname.lastname@toppi.fi

TOPPI PLAST OÜ

Rääma 96, 80040 Pärnu linn, ESTONIA

+372 4447 791

info@toppiplast.ee