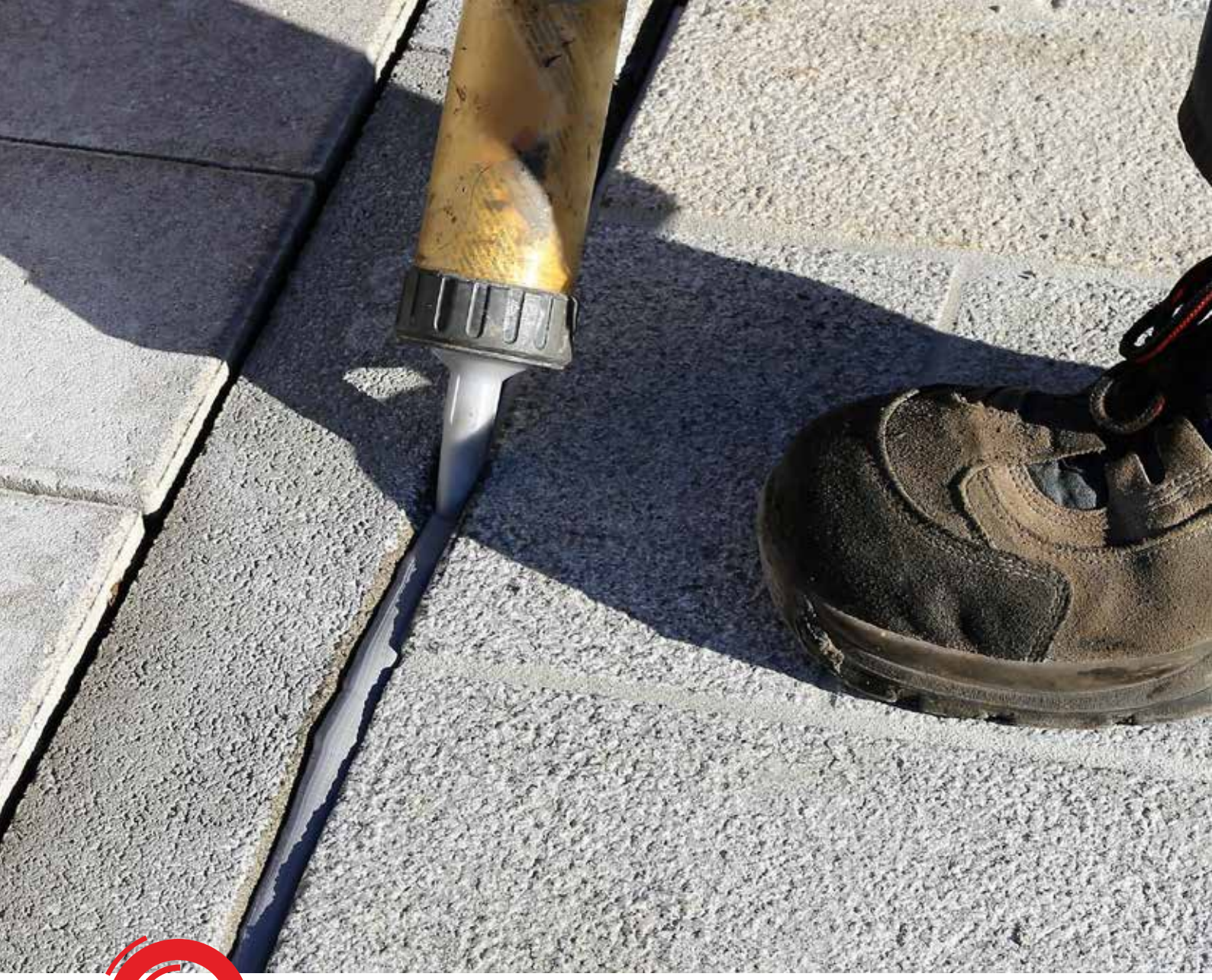

JOINT SEALING SYSTEMS

Product Catalogue

F.Willich
SINCE 1882

ENGINEERING, TUNNELING & MINING

The F. Willich company has over 40 years of experience in civil engineering, mining and tunnel construction worldwide. It offers excellent technical and personnel expertise.

Since its foundation in 1882, the company has successfully participated in many often very demanding and complex civil engineering and mining projects. Reliable and innovative solutions are its trademark – especially in the field of international mountain and tunnel construction. F. Willich stands for innovation, experience and future orientation and is also a guarantee for your success. The areas of application in civil engineering and mining range from rock and soil stabilisation to sealing, cavity filling, anchoring technology and repair. This reduces construction time – ideal for projects with tight deadlines or lower ambient temperatures.

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1

PVC JOINT TAPE SYSTEMS

Joint tape systems from F. Willich – for lasting safety in concrete construction

Joints are unavoidable in modern concrete structures – whether as construction joints between concrete sections or as expansion joints to accommodate movement. To ensure the long-term watertightness of such structures, we offer a comprehensive range of reliable joint tape systems.

Working and expansion joint tapes, either internal or external, form the central element of these systems. They ensure a permanent seal under high water pressure and movement, are inserted into the reinforcement and cast with concrete.

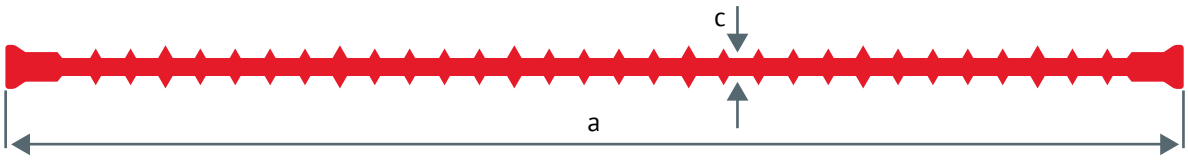
Joint sealing tapes separate concrete sections and prepare the joints for sealing, especially in combination with injection systems. Swelling joint tapes react to moisture, swell in a controlled manner and ensure watertightness, while special silo joint tapes are media-resistant and can be used in chemically contaminated areas.

Moulded parts such as corners and T-pieces complement the system, ensuring continuous sealing at critical transitions.

Together, these four components form a powerful system solution based on decades of experience in concrete and civil engineering. With their combination of flexibility, durability and technical precision, F. Willich joint tape systems offer maximum safety with minimum installation effort.

FLEX NB

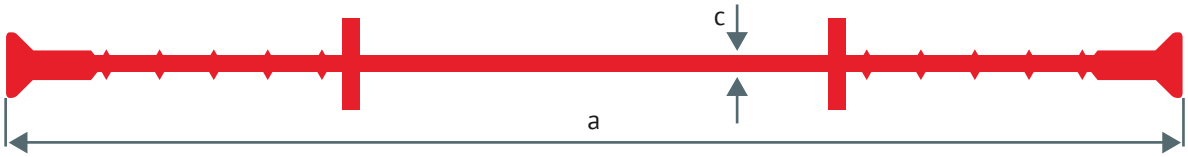
Internal expansion joint tape made of PVC-P factory standard «spring steel reinforced»



Type	Total width „a“ [mm]	Stretch section „c“ [mm]	Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
FLEX 10 NB	100	4.5	⩾ 275 %	⩾ 10 N/mm²	78 ± 5
FLEX 15 NB	150	4.5			
FLEX 19 NB	190	4.5			
FLEX 24 NB	240	4.5			
FLEX 32 NB	230	5.0			

ZE FLEX NB

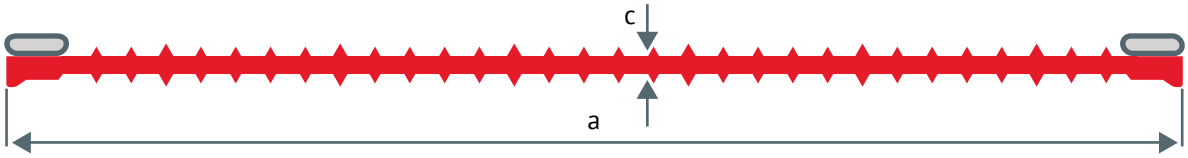
Internal expansion joint tape made of PVC-P factory standard «spring steel reinforced»



Type	Total width „a“ [mm]	Stretch section „c“ [mm]	Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
ZE FLEX 24 NB Grau	240	4.0	⩾ 275 %	⩾ 10 N/mm²	72 ± 5

FLEX SL NB

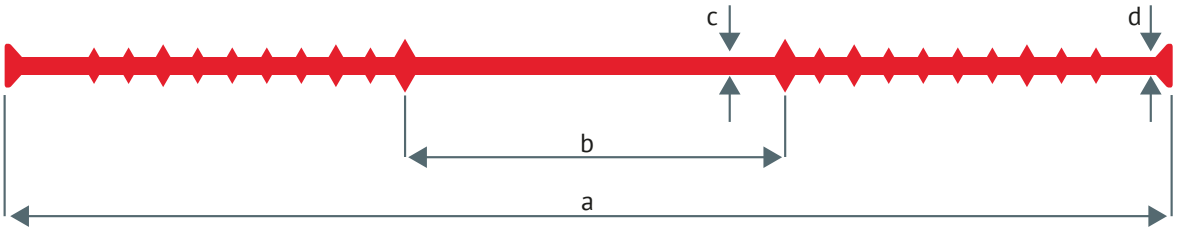
Internal expansion joint tape made of PVC-P, factory standard «spring steel reinforced» with loop



Type	Total width „a“ [mm]	Stretch section „c“ [mm]	Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
FLEX 19 SL NB	100	4.5	⩾ 275 %	⩾ 10 N/mm²	78 ± 5
FLEX 24 SL NB	150	4.5			

A NB

Internal expansion joint tape made of PVC-P factory standard NB



Type	Total width „a“ [mm]	Stretch section		Outer thickness „d“ [mm]	Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
		„b“ [mm]	„c“ [mm]				
A 10 NB	100	20	3.0	2.5	⩾ 275 %	⩾ 10 N/mm²	78 ± 5
A 11 NB	110	25	3.0	2.5			
A 15 NB	150	45	3.0	2.5			
A 19 NB	190	70	3.0	2.5			
A 24 NB	240	80	3.5	2.5			
A 32 NB	320	100	4.5	3.0			
A 50 NB	500	150	5.0	3.5			

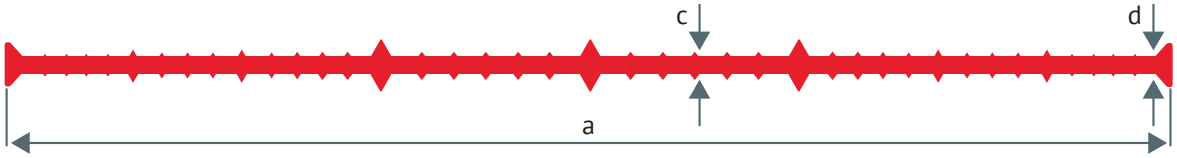
A DIN

Internal expansion joint tape made of PVC-P DIN 18541 Part 1+2 NB

Type	Total width „a“ [mm]	Stretch section		Outer thickness „d“ [mm]	Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
		„b“ [mm]	„c“ [mm]				
A DIN 240 NB	240	80	3.5	2.5	⩾ 350 % (⩾ 200% at -20°C)	⩾ 10 N/mm²	67 ± 5
A DIN 320 NB	320	100	4.5	3.0			
A DIN 500 NB	500	150	6.0	3.5			

ATM

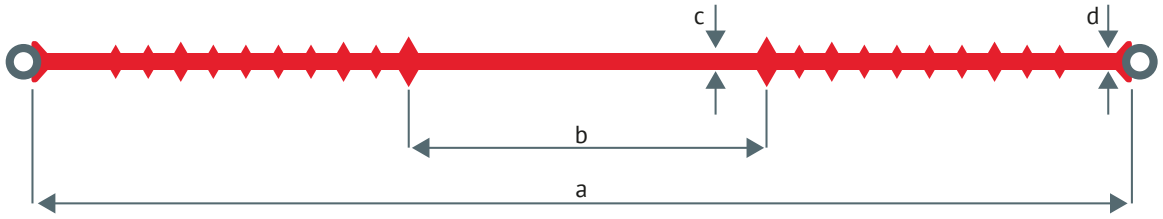
Internal expansion joint tape made of PVC-P factory standard «Meistermeer»



Type	Total width	Stretch section	Outer thickness	Elongation at break	Tear resistance	Shore hardness A
	„a“ [mm]	„c“ [mm]	„d“ [mm]	DIN EN ISO 527-2	DIN EN ISO 527-2	DIN 53505
A DIN 240 NB	240	5.0	3.5	⩾ 400 % (⩾ 200% at -20°C)	⩾ 10 N/mm²	65 ± 5
A DIN 320 NB	320	5.5	3.5			

A NB WITH INJECTION HOSE

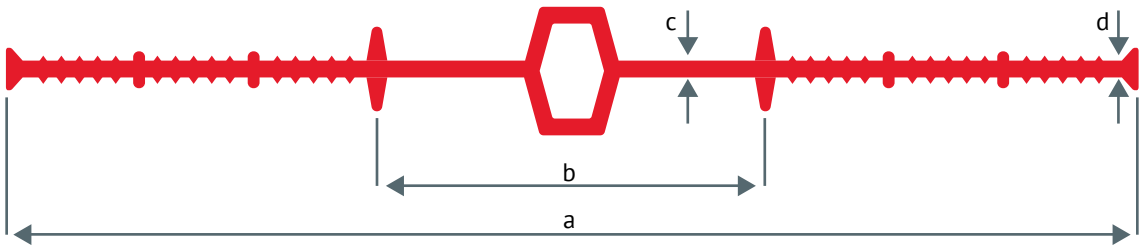
Internal expansion joint tape made of PVC-P, factory standard NB, with injection hose



Type	Total width „a“ [mm]	Stretch section			Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
		„b“ [mm]	„c“ [mm]	„d“ [mm]			
A DIN 240 NB	320	100	5.0	3.5	⩾ 275 %	⩾ 10 N/mm²	72 ± 5

D NB

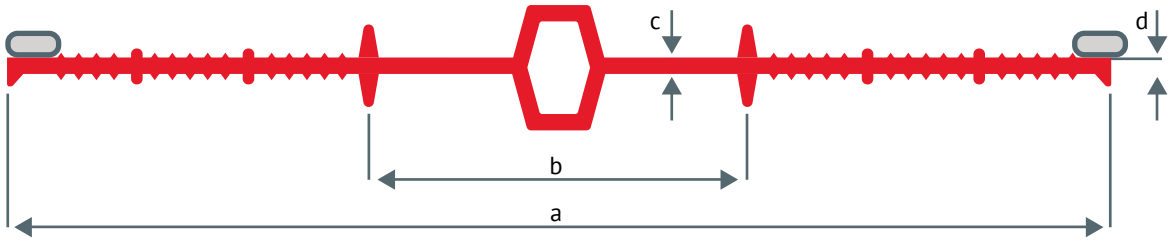
Internal expansion joint tape made of PVC-P factory standard NB



Type	Total width „a“ [mm]	Stretch section		Outer thickness „d“ [mm]	Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
		„b“ [mm]	„c“ [mm]				
D 11 NB	110	40	3.5	2.5	⩾ 275 %	⩾ 10 N/mm²	72 ± 5
D 15 NB	150	50	3.5	3.5			
D 19 ND	190	65	3.5	2.5			
D 24 NB	240	80	4.0	3.0			
D 32 NB	320	110	5.0	3.5			
D 35 NB	350	110	5.0	3.5			
D 50 NB	500	160	5.0	4.0			
DEM 25 NB	250	120	6.0	5.0			
DEM 32 NB	320	170	6.0	5.0			
DDS 32 NB	320	120	8.0	5.0			

D SL NB

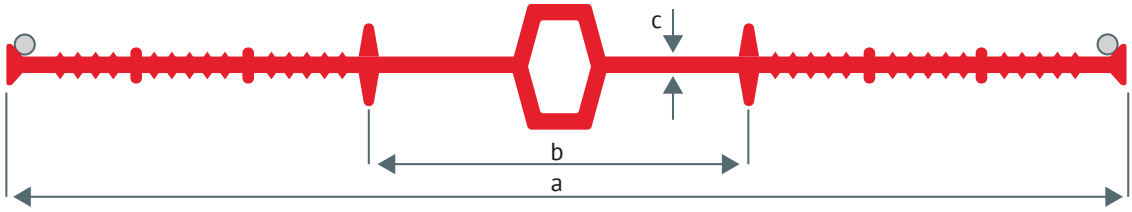
Internal expansion joint tape with PVC-P loop factory standard NB



Type	Total width „a“ [mm]	Stretch section		Outer thickness „d“ [mm]	Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
		„b“ [mm]	„c“ [mm]				
D 15 SL NB	150	50	3.5	2.5	⩾ 275 %	⩾ 10 N/mm²	72 ± 5

D ML NB

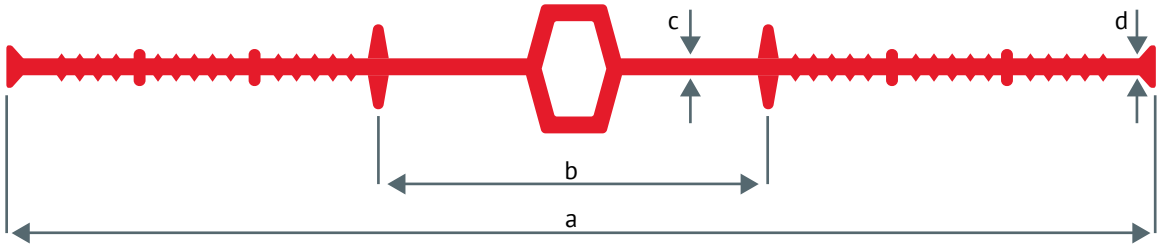
Internal expansion joint tape with perforation and lateral reinforcement made of PVC-P factory standard NB



Type	Total width „a“ [mm]	Stretch section		Outer thickness „d“ [mm]	Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
		„b“ [mm]	„c“ [mm]				
D 15 ML NB	150	50	3.5	2.5	⩾ 275 %	⩾ 10 N/mm²	72 ± 5

D DIN NB

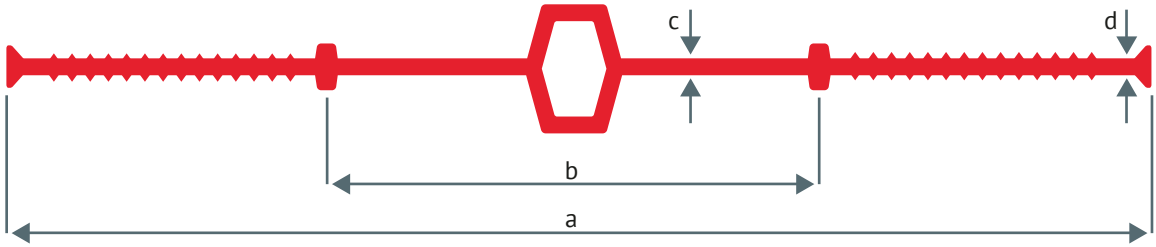
Internal expansion joint tape made of PVC-P DIN 18541 Part 1+2 NB



Type	Total width „a“ [mm]	Stretch section		Outer thickness „d“ [mm]	Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
		„b“ [mm]	„c“ [mm]				
D 240 DIN NB	240	80	4.0	3.0	⩾ 350 % (⩾200% at -20°C)	⩾ 10 N/mm²	67 ± 5
D 320 DIN NB	320	100	5.0	3.5			
D 500 DIN NB	500	150	6.0	4.5			
D240/6 DIN NB	250	120	6.0	5.0			
D320/6 DIN NB	320	170	6.0	5.0			

DTM

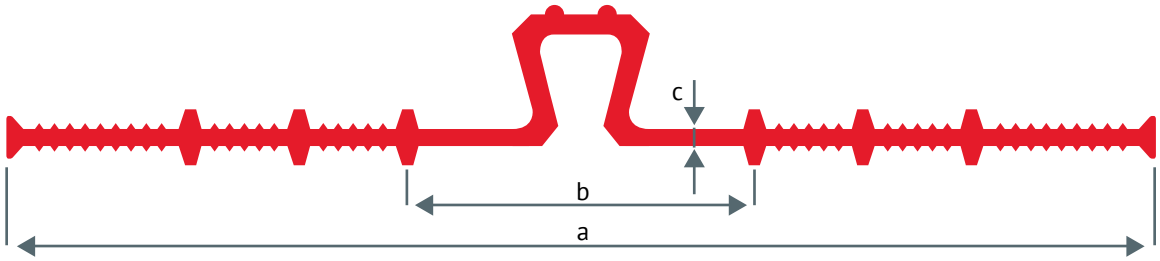
Internal expansion joint tape made of PVC-P factory standard «Meistermeer»



Type	Total width „a“ [mm]	Stretch section		Outer thickness „d“ [mm]	Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
		„b“ [mm]	„c“ [mm]				
DTM 25	110	120	6.0	5.0	⩾ 400 % (⩾ 200% at -20°C)	⩾ 10 N/mm²	65 ± 5
DTM 32	320	170	6.0	5.0			
DTM 50 Leichtqualität	500	150	6.0	5.0			
DSTM 25	250	120	9.0	5.0			
DSTM 32	320	120	9.0	5.0			

OM NB

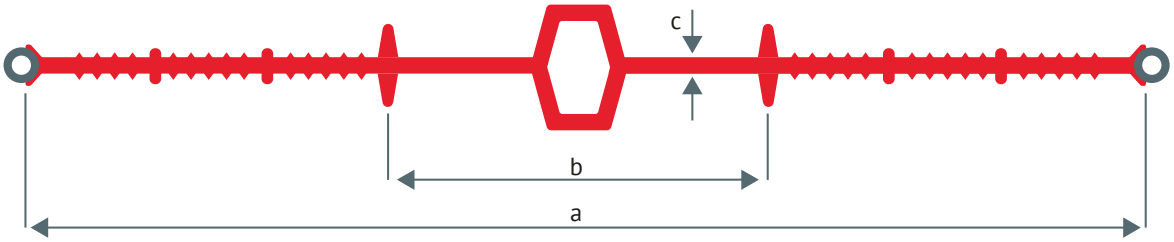
Internal expansion joint tape made of PVC-P DIN 18541 Part 1+2 NB



Type	Total width „a“ [mm]	Stretch section		Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
		„b“ [mm]	„c“ [mm]			
OM 25 NB	250	75	6.0	⩾ 275 %	⩾ 10 N/mm²	72 ± 5
OM 35 NB	350	95	6.0			
OM 50 NB	500	190	7.0			

D NB WITH INJECTION HOSE

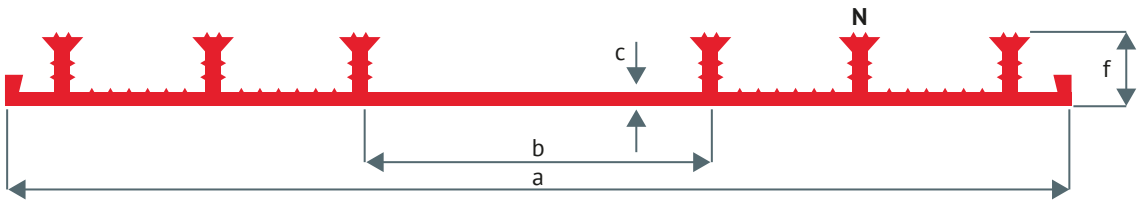
Internal expansion joint tape made of PVC-P factory standard NB



Type	Total width „a“ [mm]	Stretch section		Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
		„b“ [mm]	„c“ [mm]			
D 32 NB	320	110	5.0	⩾ 275 %	⩾ 10 N/mm²	72 ± 5

AA NB

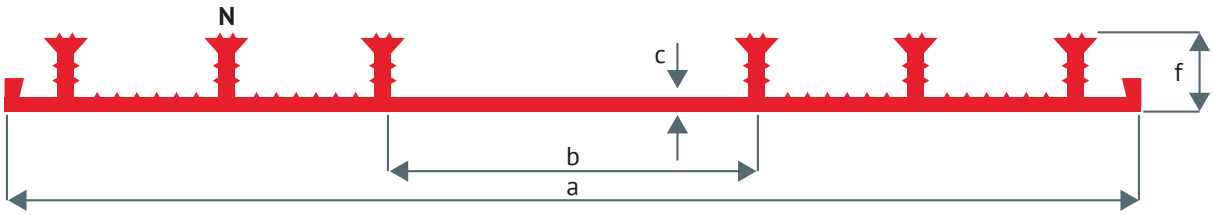
External expansion joint tape made of PVC-P factory standard NB



Type	Total width „a“ [mm]	Stretch section		Barrier anchor		Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
		„b“ [mm]	„c“ [mm]	„f“ [mm]	Number			
AA 19 NB	190	66	3.0	17	4	⩾ 275 %	⩾ 10 N/mm²	72 ± 5
AA 24 NB	240	90	4.0	20	4			
AAS 24 NB	240	90	4.0	24	4			
AA 24/3/4 NB	250	115	5.0	35	4			
AA 32 NB	330	105	4.0	20	6			
AAS 32 NB	330	105	4.0	25	6			
AA 32/3/6 NB	330	105	5.0	35	6			
AA 50/2/6 NB	500	235	5.0	20	6			
AA 50/2/8 NB	500	125	5.0	20	8			
AA 50/3/6 NB	500	235	5.0	35	6			
AA 50/3/8 NB	500	125	5.0	35	8			

AA DIN NB

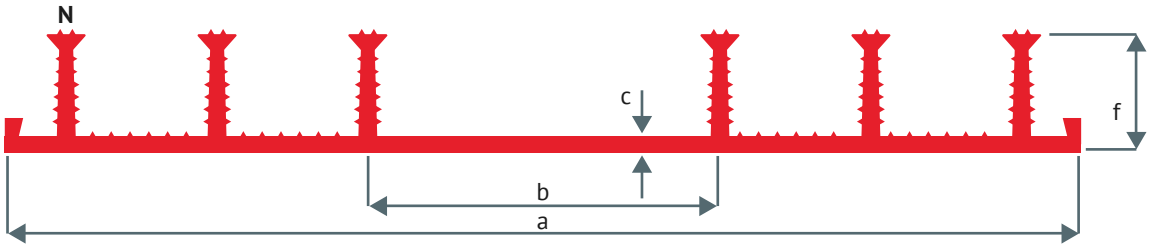
Internal expansion joint tape made of PVC-P DIN 18541 Part 1+2 NB



Type	Total width „a“ [mm]	Stretch section		Barrier anchor		Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
		„b“ [mm]	„c“ [mm]	„f“ [mm]	Number			
AA 240 DIN NB	240	90	4.0	20	4	⩾ 350 % (⩾ 200% at -20°C)	⩾ 10 N/mm²	67 ± 5
AA 320 DIN NB	320	100	4.0	25	6			
AA 500 DIN NB	500	120	4.0	25	8			
AA 240/20 DIN NB	240	90	4.0	24	4			
AA 240/30 DIN NB	250	115	5.0	35	4			
AA 320/30 DIN NB	330	105	5.0	35	6			
AA 500/30 DIN NB	500	125	5.0	35	8			

AA TM

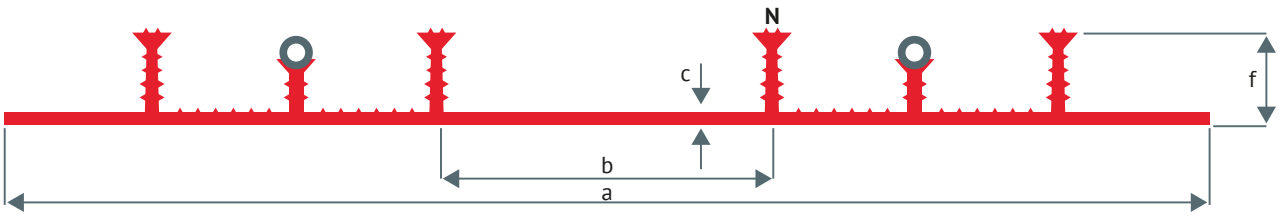
External expansion joint tape made of PVC-P factory standard «Meistermeer»



Type	Total width „a“ [mm]	Stretch section		Barrier anchor		Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
		„b“ [mm]	„c“ [mm]	„f“ [mm]	Number			
AATM 25	250	115	5.0	35	4	⩾ 400 % (⩾ 200% at -20°C)	⩾ 10 N/mm²	65 ± 5
AATM 32	330	105	5.0	35	6			

AA NB WITH INJECTION HOSE

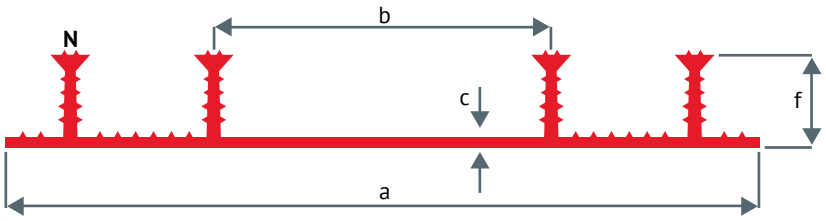
External expansion joint tape made of PVC-P factory standard NB



Type	Total width „a“ [mm]	Stretch section		Barrier anchor		Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
		„b“ [mm]	„c“ [mm]	„f“ [mm]	Number			
AA 50/30/6/ NB M2I	500	120	4.0	30	6	⩾ 275 %	⩾ 10 N/mm²	72 ± 5
AA 50/30/6 (17) NB M2I	500	170	4.0	30	6			
AA 40/30/4 NB M2I	400	170	4.0	30	4			
AA 60/30/6 NB M2I	605	275	4.0	30	6			

AA WITHOUT EDGE BEAD NB

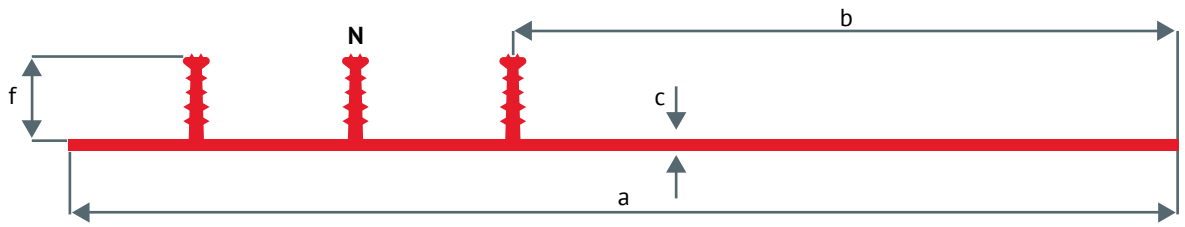
External expansion joint tape made of PVC-P factory standard NB



Type	Total width „a“ [mm]	Stretch section		Barrier anchor		Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
		„b“ [mm]	„c“ [mm]	„f“ [mm]	Number			
AA 24/30/4 without edge bead NB	250	115	4.0	30	4	⩾ 275 %	⩾ 10 N/mm²	72 ± 5

AA SMOOTH ON ONE SIDE NB

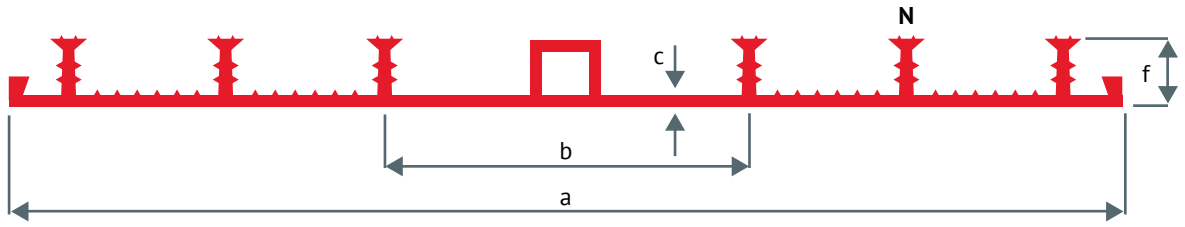
External working joint tape made of PVC-P factory standard NB



Type	Total width	Stretch section		Barrier anchor		Elongation at break	Tear resistance	Shore hardness A
	„a“ [mm]	„b“ [mm]	„c“ [mm]	„f“ [mm]	Number	DIN EN ISO 527-2	DIN EN ISO 527-2	DIN 53505
AA 40/20/3 smooth on one side NB	400	240	4.0	20	3	⩾ 275 %	⩾ 10 N/mm²	72 ± 5
AA 40/30/3 smooth on one side NB	400	240	4.0	30	3			

AD NB

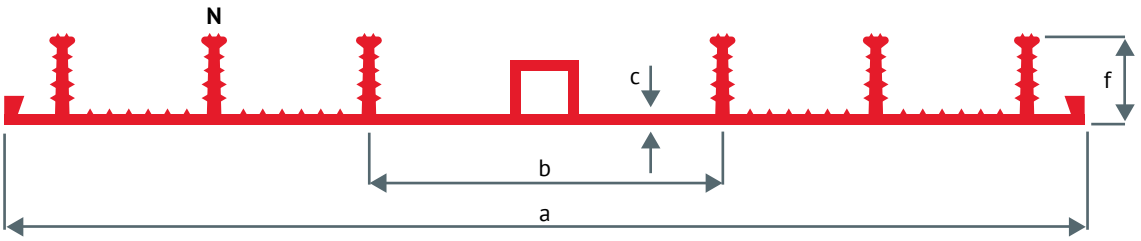
External expansion joint tape made of PVC-P factory standard NB



Type	Total width „a“ [mm]	Stretch section		Barrier anchor		Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
		„b“ [mm]	„c“ [mm]	„f“ [mm]	Number			
AD 19 NB	190	92	3.0	17	4	⩾ 275 %	⩾ 10 N/mm²	72 ± 5
AD 24 NB	240	95	4.0	20	4			
ADS 24 NB	240	90	4.0	24	4			
AD 24/3/4 NB	250	115	5.0	35	4			
ADS 32 NB	330	105	4.0	20	6			
ADS 32 NB	330	105	4.0	25	6			
AD 32/3/6 NB	330	105	5.0	35	6			
AD 50//2/6 NB	500	235	5.0	20	6			
AD 50/2/8 NB	500	125	5.0	20	8			
AD 50/3/6 NB	500	235	5.0	35	6			
AD 50/3/8 NB	500	125	5.0	35	8			

AD DIN NB

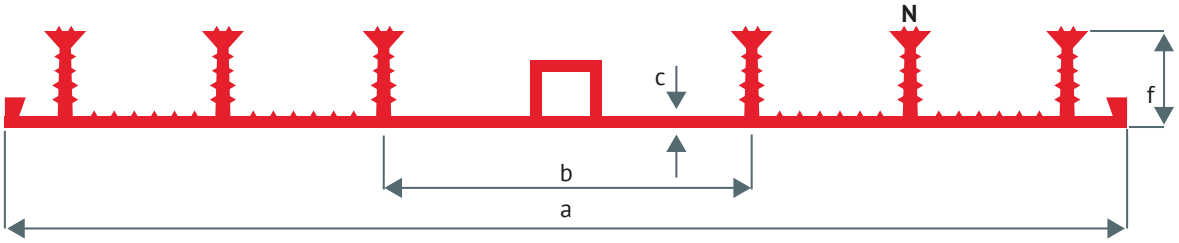
External expansion joint tape made of PVC-P DIN 18541 Part 1+2 NB



Type	Total width „a“ [mm]	Stretch section		Barrier anchor		Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
		„b“ [mm]	„c“ [mm]	„f“ [mm]	Number			
DA 240 DIN NB	240	90	4.0	20	4	⩾ 350 % (⩾ 200% at -20°C)	⩾ 10 N/mm²	67 ± 5
DA 320 DIN NB	320	100	4.0	25	6			
DA 500 DIN NB	500	120	4.0	25	8			
DA 240/20 DIN NB	240	90	4.0	24	4			
DA 240/30 DIN NB	250	115	5.0	35	4			
DA 320/30 DIN NB	330	105	5.0	35	6			
DA 500/30 DIN NB	500	125	5.0	35	8			

ADTM

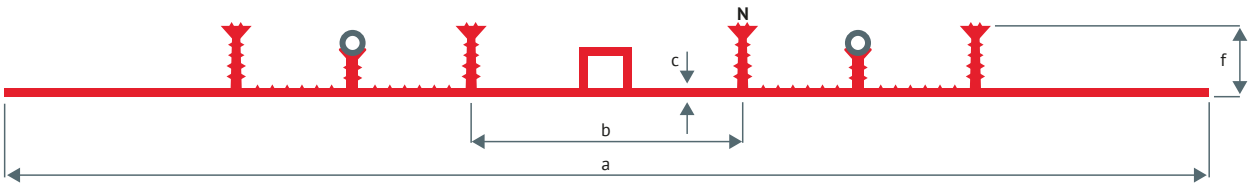
External expansion joint tape made of PVC-P factory standard «Meistermeer»



Type	Total width „a“ [mm]	Stretch section		Barrier anchor		Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
		„b“ [mm]	„c“ [mm]	„f“ [mm]	Number			
ADTM 25	250	115	5.0	35	4	⩾ 275 %	⩾ 10 N/mm²	65 ± 5
ADTM 32	330	105	5.0	35	6			

AD NB WITH INJECTION HOSE

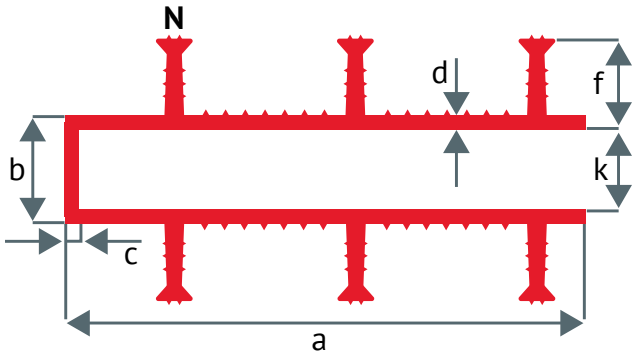
External expansion joint tape made of PVC-P factory standard NB



Type	Total width „a“ [mm]	Stretch section		Barrier anchor		Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
		„b“ [mm]	„c“ [mm]	„f“ [mm]	Number			
AA 50/30/6/ NB M2I	500	120	4.0	30	6	⩾ 275 %	⩾ 10 N/mm²	72 ± 5

FV NB

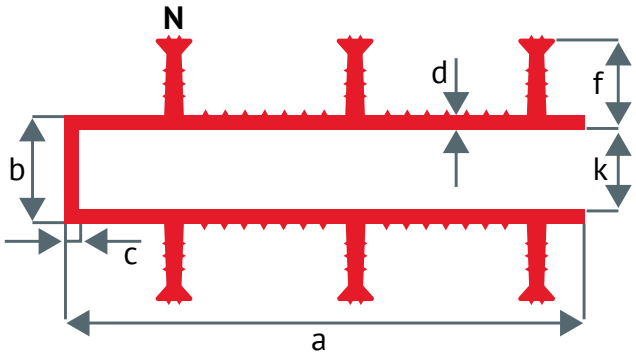
Joint sealing tape made of PVC-P factory standard NB



Type	Total width „a“ [mm]	Field of view „b“ [mm]	Joint width „k“ [mm]	Ceiling panel „c“ [mm]	Thigh „d“ [mm]	Barrier anchor		Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
						„f“ [mm]	Number			
FV 50/20 NB	50	20	10	6.0	5.0	25	2	⩾ 275 %	⩾ 10 N/mm²	72 ± 5
FV 50/20/30 NB	50	20	10	6.0	5.0	35	2			
FV 50/30 NB	50	30	20	6.0	5.0	28	2			
FV 50/30/30 NB	50	30	20	6.0	5.0	35	2			
FV 70/30/40 NB	70	30	20	6.0	5.0	45	2			
FV 70/50/40 NB	70	30	40	6.0	5.0	45	2			
FV 100/30 NB	95	50	20	6.0	5.0	25	4			
FV 140/30 NB	140	30	20	6.0	5.0	25	6			
FV 140/30/30 NB	140	30	20	6.0	5.0	35	6			
FV 140/30-130 NB	130	125	20	6.0	5.0	25	6			
FV 140/40 NB	140	40	30	6.0	5.0	35	4			
FV 140/60 NB	140	60	50	6.0	5.0	35	4			

FA DIN NB

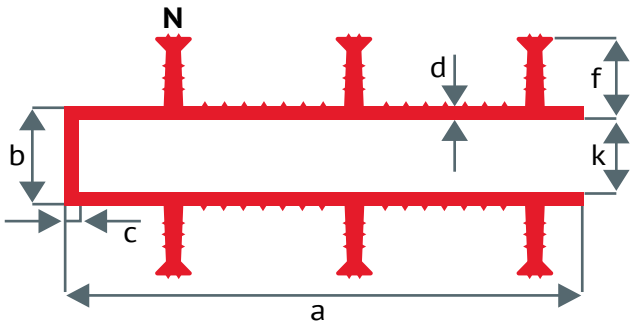
Joint sealing tape made of PVC-P DIN 18541 Part 1+ 2 NB



Type	Total width „a“ [mm]	Field of view „b“ [mm]	Joint width „k“ [mm]	Ceiling panel „c“ [mm]	Thigh „d“ [mm]	Barrier anchor		Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
						„f“ [mm]	Number			
FA 50/30 DIN NB	50	30	20	6.0	5.0	25	2	⩾ 350 % (⩾ 200% at -20°C)	⩾ 10 N/mm²	67 ± 5
FA 90/30 DIN NB	90	30	20	6.0	5.0	25	4			
FA 130/30 DIN NB	130	30	20	6.0	5.0	25	6			
FA 50/30/30 DIN NB	50	30	20	6.0	6.0	35	2			
FA 70/30/40 DIN NB	70	30	20	6.0	6.0	45	2			
FA 70/50/40 DIN NB	70	50	40	6.0	6.0	45	2			
FA 90/30/30 DIN NB	95	30	20	6.0	6.0	35	4			
FA 130/20/30 DIN NB	140	30	20	6.0	6.0	35	6			

FVTM

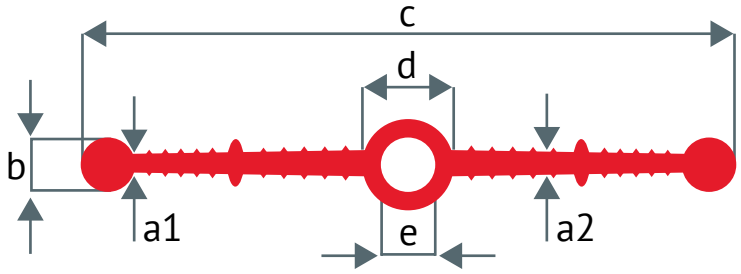
Joint sealing tape made of PVC-P factory standard «Meistermeer»



Type	Total width „a“ [mm]	Viewing width „b“ [mm]	Joint width „k“ [mm]	Ceiling panel „c“ [mm]	Thigh „d“ [mm]	Barrier anchor		Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
						„f“ [mm]	Number			
FVTM 50/20/30	50	20	10	6.0	5.0	35	2	⩾ 350 % (⩾ 200% at -20°C)	⩾ 10 N/mm²	67 ± 5
FVTM 50/30/30	50	30	20	6.0	5.0	35	2			
FVTM 70/30/40	70	30	20	6.0	5.0	45	2			
FVTM 70/50/40	70	50	40	6.0	5.0	45	2			
FVTM 100/30	95	30	20	6.0	5.0	25	4			
FVTM 140/30	140	30	20	6.0	5.0	25	6			
FVTM 140/30/P	140	30	20	15	5.0	25	6			

HDA NB

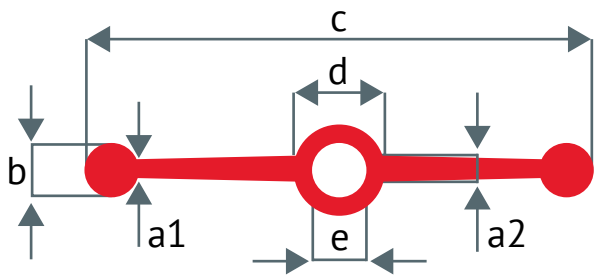
HDA tape made of PVC-P factory standard NB



Type	Dimensions [mm]						Elongation at break	Tear resistance	Shore hardness A
	„c“	„d“	„e“	„a2“	„a1“	„b“	DIN EN ISO 527-2	DIN EN ISO 527-2	DIN 53505
HDA 16 NB	160	22	10	6,5	4,5	13	⩾ 275 %	⩾ 10 N/mm²	78 ± 5

HD NB

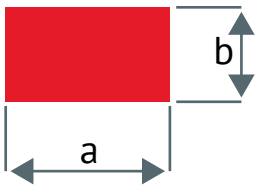
HD tape made of PVC-P factory standard NB



Type	Dimensions [mm]						Elongation at break	Tear resistance	Shore hardness A
	„c“	„d“	„e“	„a2“	„a1“	„b“	DIN EN ISO 527-2	DIN EN ISO 527-2	DIN 53505
HD 10 NB	100	22	13	6.5	4.5	13	⩾ 275 %	⩾ 10 N/mm²	78 ± 5

QUELLMEISTER

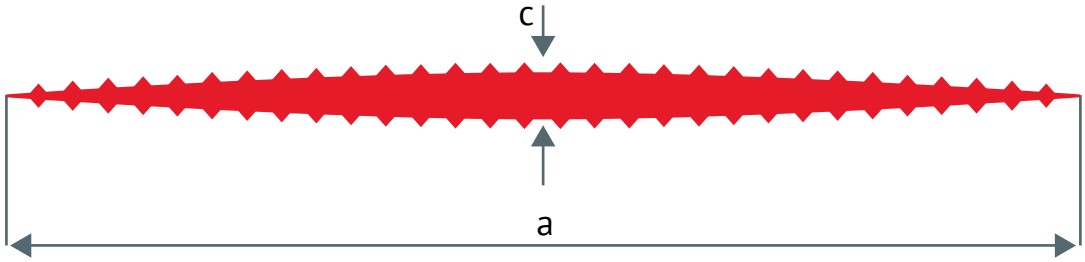
Internal expansion joint tape made of PVC-P factory standard NB



Type	Length		Roll goods / Packaging [m/Role]	Shore hardness DIN 53505	Source volume [%]	Temperature resistance [°C]
	„a“ [mm]	„b“ [mm]				
Quellmeister 20/3	20	3.0	25	60 ± 5	300	-50 bis +60
Quellmeister 20/5	20	5.0	15			
Quellmeister 20/6	20	6.0	15			
Quellmeister 20/10	20	10	15			
Quellmeister 20/20	20	20	5			
Quellmeister 30/20	30	20	3			

S NB

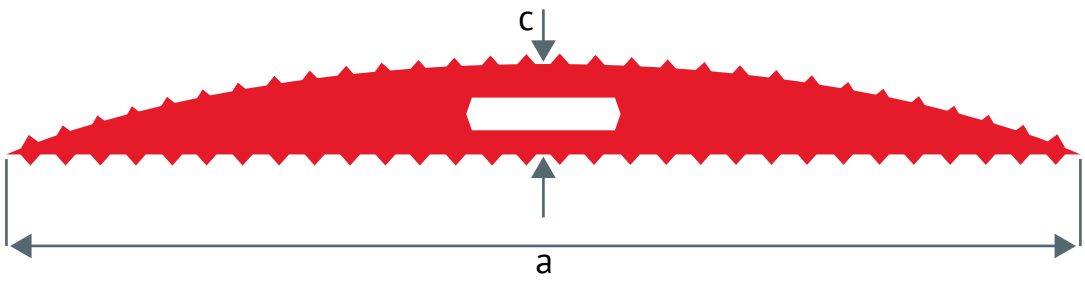
Silo belt made of PVC-P factory standard NB



Type	Total width „a“ [mm]	Stretch section „c“ [mm]	Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
S 8 NB	80	5.0	⩾ 250 %	⩾ 10 N/mm²	86 ± 5
S 10 NB	100	5.0			
S 12 NB	120	5.0			
S 15 NB	150	5.0			

S NB WITH HOLLOW CHAMBER

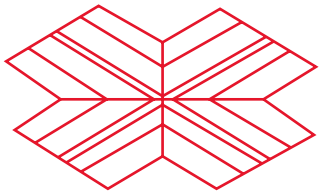
Silo belt with hollow chamber made of PVC-P factory standard NB



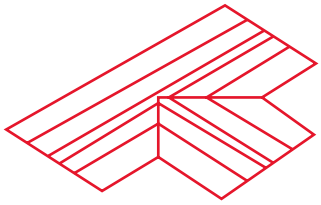
Type	Total width „a“ [mm]	Stretch section „c“ [mm]	Elongation at break DIN EN ISO 527-2	Tear resistance DIN EN ISO 527-2	Shore hardness A DIN 53505
S 120 NB with hollow chamber	120	10	⩾ 250 %	⩾ 10 N/mm²	86 ± 5

FITTINGS

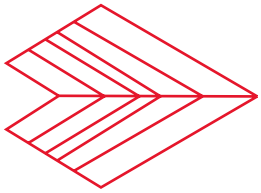
Internal expansion joint tape made of PVC-P DIN 18541 Part 1+2 NB



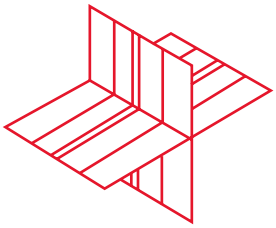
Form 1
flat junction



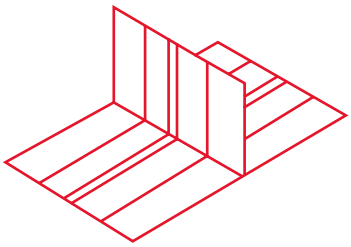
Form 2
flat T-piece



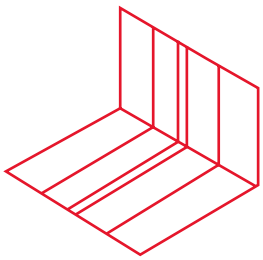
Form 3
flat corner



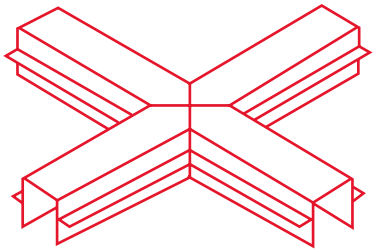
Form 4
vertical intersection



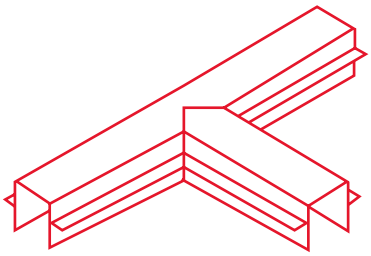
Form 5
vertical T-piece



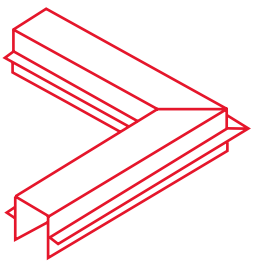
Form 6
vertical corner



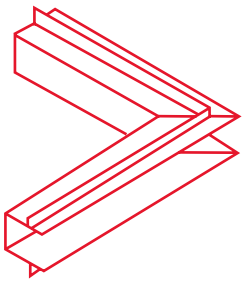
Form 7
vertical intersection



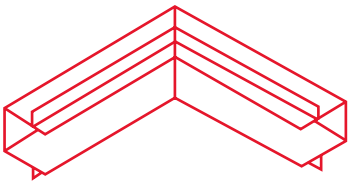
Form 8
vertical T-piece



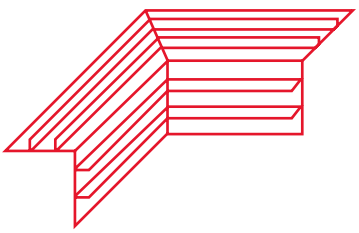
Form 9
vertical corner



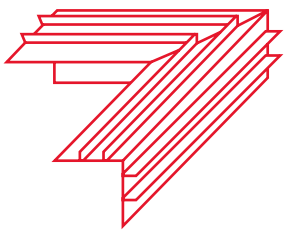
Form 10
flat corner,
ceiling panel inside



Form 11
flat corner,
ceiling panel on the outside



Form 12
mirror corner



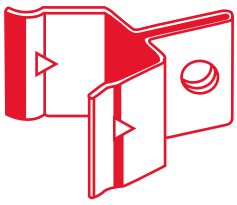
Form 13
angle corner

Standard leg length:
The standard leg length is 0.50 m centre distance; other leg lengths are available on request.

Dimensional accuracy:
For dimensional reasons (dimensional accuracy), we recommend that fittings and fitting systems only be manufactured up to a total length of 25 m. We cannot guarantee any dimensional accuracy for larger dimensions.

Fitting systems:
We are happy to manufacture according to your sketch. Combination welds are possible on request.

Contract manufacturing:
Fittings and fitting systems are only manufactured to order and cannot be returned after production.



joint tape clips

welding axes

In the versions:

- 125 watts
- 250 watts
- 300 watts

We reserve the right to make technical changes to profile geometry and material composition based on new findings. The illustrations of the joint tapes represent a representative of the profiles listed in the tables and serve only as examples of the processing options. Correct application may vary depending on local conditions. For this reason, no guarantee can be given.

2

WORKING- & CONNECTION JOINTS

Reliable flexibility for lasting security and effortless touch-ups

The **WILLHOSE** injection hose system enables targeted retroactive sealing by injecting reactive gels such as polyurethane or acrylate. The hose is installed before concreting and allows precise sealing exactly where leaks occur. The re-injectability ensures long-term flexibility and easy repairs.

The **WILLSWELL** swelling profile swells in a controlled manner when it comes into contact with water and permanently seals the joint. It is ideal for irregular joints, prefabricated connections and tight installation situations, is easy to install and provides reliable protection against moisture.
For elastic sealing of expansion and connection joints, F. Willich offers **WILLAN®** sealants in single and two-component versions.
They are weather-resistant, elastic and adhere well to various building materials, even under demanding conditions. The epoxy resin-based solutions of the **WILLPOX®** series are suitable for high chemical and mechanical requirements.
They are suitable for force-fit bonding, casing pipe grouting and sealing penetrations and joint profiles, cure with low tension and ensure durable, tight transitions.

With this coordinated range, we offer practical, efficient and durable sealing solutions for a wide variety of construction tasks and requirements.

WILLHOSE

PVC injection hose with ribbed surface, for sealing construction joints in concrete structures, can be initiated with polyurethane or epoxy resins, acrylate gels and injection cements, can be injected multiple times with acrylate gels and injection cements, 50 m roll

Diameter (inner/outer) / Colour	Article number
6/12 mm / red	WJSS4-00005

**The available accessories for fixing and connecting can be found in the product catalogue.*

WILLSWELL

Water-swelling rubber profile with incorporated hydrophilic resins

Height x Width	Article number
10 x 20 mm	WJSS4-00001
20 x 20 mm	WJSS4-00027
20 x 25 mm	WJSS4-00028
30 x 30 mm	WJSS4-00029

WILLAN® MS 1 / 1H / SWL

MS1: 1K SPPO Elastic adhesive and joint sealant
1H: 1K SPPO Elastic joint sealant and adhesive
SWL: 1K Swellable elastic joint sealant and adhesive

	Unit	WILLAN® MS 1	WILLAN® 1H	WILLAN® SWL
Standard colour		Black	Black	White
Density (20°C)	g/cm³	1.50	1.50	1.45
Dyn. Viscosity (21°C)	Pas	4000	2000	3000
Elongation at break	%	500	400	625
Joint movement	%	10	15	n. a.
Shore A hardness	D	55	50	30
Volumetric swelling	%	0	0	350

Article designation	Size	Packaging	Item number
WILLAN® MS1	600 ml	Tubular bag	WIL-HS-1-MS 1-SCHWARZ-600
WILLAN® 1H	600 ml	Tubular bag	WIL-HS-1-1K-SCHWARZ-600
WILLAN® SWL	600 ml	600 ml Tubular bag à 0.875 kg	WIL-SWL-1-600
	310 ml	310 ml Cartridge à 0.416 kg	WIL-SWL-1-310

3

IMPACT PROFILES & MEMBRANE SEALS

Mechanical and surface sealing solutions for joints and transitions

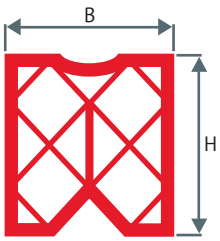
For fast and reliable sealing of construction joints, we offer the **WILLJOINT** hammer-in profile. This mechanically effective system requires no adhesives or injections, is hammered directly into the joint and is ready for immediate use.

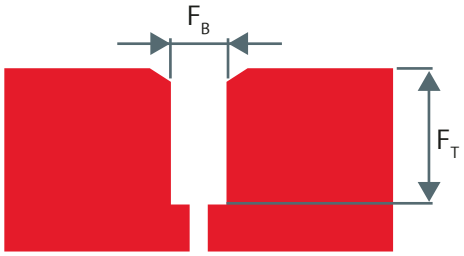
It is particularly suitable for construction projects with tight schedules, difficult to access areas or high loads in the early stages of construction. In addition, the elastic, tear-resistant **WILLBAND** membrane protects transitions, wall connections and surfaces. It is applied to the substrate, adapts flexibly to movements and permanently bridges cracks and component transitions. With its high elasticity and weather resistance, **WILLBAND** is the ideal solution for complex details.

Together, **WILLJOINT** and **WILLBAND** form a practical sealing system that can be flexibly adapted to different requirements in building construction, civil engineering and renovation projects. The F. Willich product portfolio thus offers reliable, durable seals for a wide variety of construction projects.

WILLJOINT R

Rectangular EPDM impact profiles for expansion joints

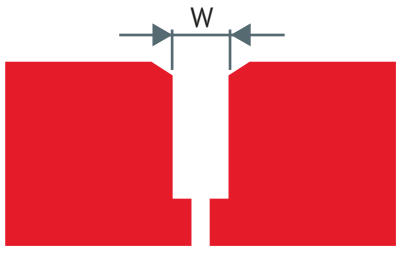




WILLJOINT R					Joint						Theoretical adhesive consumption
					Geometry in mm				Opening in mm		
Type	Width B [mm]	Height H [mm]	Roll length [mm]	Weight [kg/m]	Movement	Joint width [F_B min]	Joint width [F_B max]	Joint depth F_T	min	max	[g/m]
36	36	35	30	0.64	12	20	24	45	18	30	105
46	46	37	30	1.02	20	30	40	50	20	40	112
56	56	55	20	1.79	22	38	49	65	27	49	165
68	68	70	20	3.07	30	45	60	85	30	60	210
80	80	87	20	4.74	35	55	70	100	35	70	260
107	107	90	12	6.02	45	72	95	110	50	95	270
135	135	100	12	7.30	65	90	120	130	55	120	285

WILLJOINT T

Rectangular EPDM impact profiles for expansion joints



WILLJOINT T					Joint	Theoretical adhesive consumption
Type	Width B [mm]	Height H [mm]	Roll length [m]	Weight [kg/m]	Width W [mm]	[g/m]
6	14	16	200	0.090	6	5
8	14	16	102	0.117	8	9
10	16	24	81	0.150	10	9
12	19	24	70	0.180	12	9
15	24	24	70	0.225	15	9

WILLBAND E

EPDM strips for bonding to concrete joints

	Dimensions		
Article designation	**Thickness [mm]**	**Width [mm]**	**Length [m]**
WBAND-E-1-150	1.0	150	20
WBAND-E-1-200	1.0	200	20
WBAND-E-1-250	1.0	250	20
WBAND-E-1-300	1.0	300	20

WILLBAND T

TPO strips for bonding to concrete joints

	Dimensions		
Article designation	**Thickness [mm]**	**Width [mm]**	**Length [m]**
WBAND-T-1-150	1.0	150	20
WBAND-T-1-250	1.0	250	20
WBAND-T-1-300	1.0	300	20
WBAND-T-2-150	2.0	150	20
WBAND-T-2-250	2.0	250	20
WBAND-T-2-300	2.0	300	20

INSULATION

COATINGS

SEWER REPAIR

CIVIL ENGINEERING & MINING

F.Willich
SINCE 1882

F. Willich GmbH + Co. KG
Planetenfeldstrasse 120
44379 Dortmund
Germany

Tel.: +49 (0)231 96 40 - 0
Fax: +49 (0)231 96 40 - 232
www.f-willich.com
info@f-willich.com

TÜVNORD
TÜV NORD CERT GmbH
DIN EN ISO 9001
tuev-nord.de

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