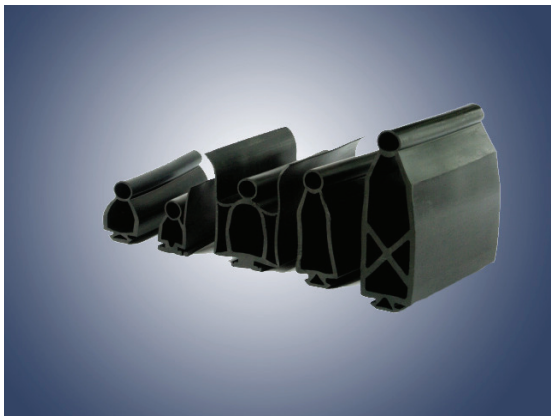
O S E – O V E R V I E W P R O F I L E S



Overview profiles

The profiles must be stored and shipped without kinks and sharp bends. A pollution of the hollow chamber during the storage should to be prevented by a suitable package. A longer storage (> 6 months) in rolls should be avoided.

Designation	Id-No.	Material	Dimension in mm (Width / Height)	Weight	∅ Sensor
OSE-P 25 30 00	75142050	EPDM	25 / 30	0.3 kg/m	11 mm
OSE-P 25 33 00	75142061	EPDM	25 / 33	0.3 kg/m	11 mm
OSE-P 25 33 00 NBR	10002453	NBR	25 / 33	0.3 kg/m	11 mm
OSE-P 30 58 00	75142062	EPDM	30 / 58	0.6 kg/m	11 mm
OSE-P 30 90 01	75142080	EPDM	30 / 90	0.9 kg/m	11 mm
OSE-P 20 40 01	75142044	EPDM	20 / 40 incl. sealing lip	0.3 kg/m	11 mm
OSE-P 25 90 00	75142016	EPDM	25 / 85 incl. Sealing lip	0.8 kg/m	11 mm
OSE-P 14 36 00	75142046	EPDM	14 / 36 incl. sealing lip	0.2 kg/m	11 mm
OSE-P 14 36 04	10006741	EPDM	14 / 36 incl. sealing lip	0.18 kg/m	11 mm
OSE-P 15 40 00	75142042	EPDM	15 / 40 incl. sealing lip	0.3 kg/m	11 mm
OSE-P 20 40 00	75142060	EPDM	20/40	0,3 kg/m	11 mm
OSE-P 25 75 01	75142010	EPDM	25 / 75 incl. sealing lip	0.6 kg/m	11 mm
OSE-P 25 75 00	75142030	EPDM	25 / 75 incl. sealing lip	0.7 kg/m	22 mm
OSE-P 45 60 00	75142085	EPDM	45/60 incl. sealing lip	0,9 kg/m	11 mm
OSE-P 45 60 01	75142041	EPDM	45/60 incl. sealing lip	1,1 kg/m	11 mm
OSE-P 45 60 02	75142086	EPDM	45/60 incl. sealing lip	0,62 kg/m	11 mm
OSE-P 45 60 04	10004735	EPDM	45/60 incl. Sealing lip	0,65 kg/m	11 mm

O S E – O V E R V I E W P R O F I L E S

General data of the signaling element	
Protection Class	IP 67
Length of wire of signaling transmitter	min. 0.5 m max. 10.0 m
Length of signaling line	max. 200 m
Tolerable weight	max. 500 N on any point of the effective sensing surface
	Exception: OSE-P 30 90 01 max. 400 N
Operating speed	min. 10 mm/s max. see details
Fitting position	Any alignment
Mounting	In distances of approx. 0.7 m with head or countersunk head screws (∅: 3 mm – 6 mm)

Technical data (characteristic features of material)

General data	
International marking	EPDM (APTK)
Chemical marking	Ethylene-Propylene-Terpolymer
Rebound elasticity at 20 °C	Good (> 25 %)
Resistance against permanent deformation	Good
Elongation at tear	> 400 %
General weatherproofness	Excellent
Ozone resistance	Excellent (degree 0)
Oil resistance	Poor
Fuel resistance	Poor
Chemical solvent-resistance	Poor
General resistance against acids	Good
Salt water resistance	Stable
Light-resistance	Good
Temperature-resistance	
Short term approx.	-50 °C to +120 °C
Long-term approx..	-40 °C to +100 °C
Grocery-quality available	Possible with restrictions

O S E – O V E R V I E W P R O F I L E S

Limit deviations according to DIN ISO 3302-1

The measures of profiles in the drawings are featured according to tolerances of DIN ISO 3302-1.

This has to be taken into consideration in case of implant in a specific customer's profile.

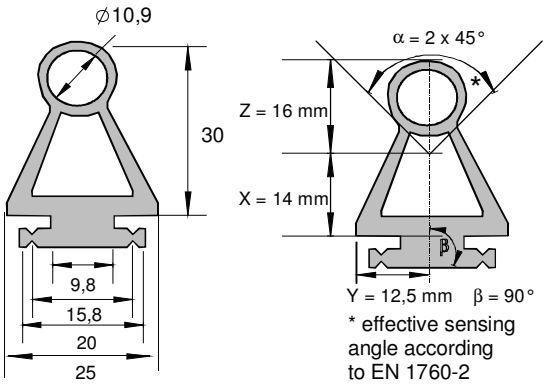
Nominal sizes (in mm)		
More than	Up to	Tolerance according to class E2 (in mm)
0	1.5	± 0.25
1.5	2.5	± 0.35
2.5	4.0	± 0.40
4.0	6.3	± 0.50
6.3	10	± 0.70
10	16	± 0.80
16	25	± 1.00
25	40	± 1.30
40	63	± 1.60
63	100	± 2.00

O S E – D A T A S H E E T S P R O F I L E S

OSE-P 25 30 00

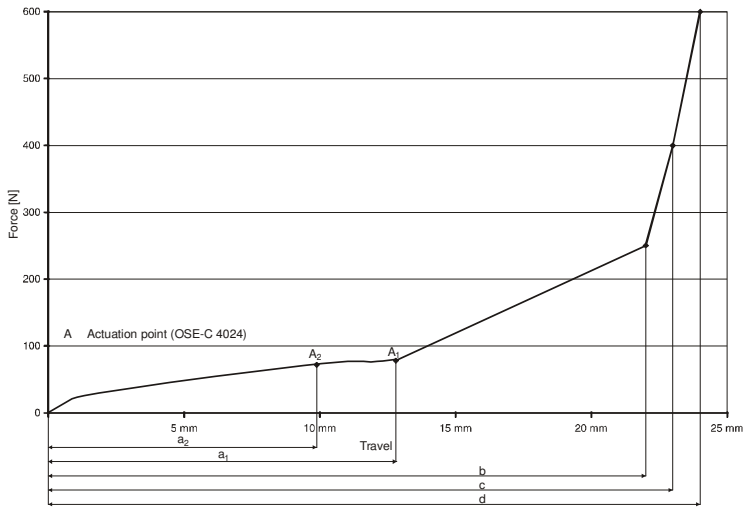
Specific data	
Hardness	70 ± 5 Shore A
Height	30 mm
Width	25 mm
Length of roll	50 m
Alu-Profile	ALU – 2509
Bumper	OSE-B 3518
Detection of fingers	Yes
Aricle No..	75142050
Weight	0,3 Kg/m
Dead surface region	80 mm
Operating speed	max. 30 mm/s
Op. temperature	5 °C to 55 °C
Protection Class	IP67

Drawing OSE-P 25 30 00



Parameters of measuring, temperature: T = 23 °C, fitting position: B (according to EN 1760-2), measuring point: C3 (according to EN 1760-2), operation speed: 100 mm/s to A 10 mm/s from A. The end sections are unable to detect fingers and must be marked accordingly.

Force travel relation diagram



	OSE-C 4024 Travel	Force	OSE-C 4524 Travel	Force
$a_{1/2}$ Pretravel	12,8 mm	80 N	9,8 mm	78 N
b Total travel to reach the force250 N	22,0 mm	250 N	22,0 mm	250 N
c Total travel to reach the force400 N	23,0 mm	400 N	23,0 mm	400 N
d Total travel to reach the force600 N	24;0 mm	600 N	24,0 mm	600 N

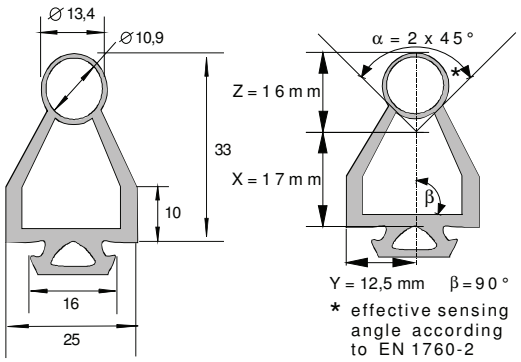
Follow-up range= b/c/d – a1/2 (The follow-up time depends on machine's further processing and braking speed).

O S E – D A T A S H E E T S P R O F I L E S

OSE-P 25 33 00

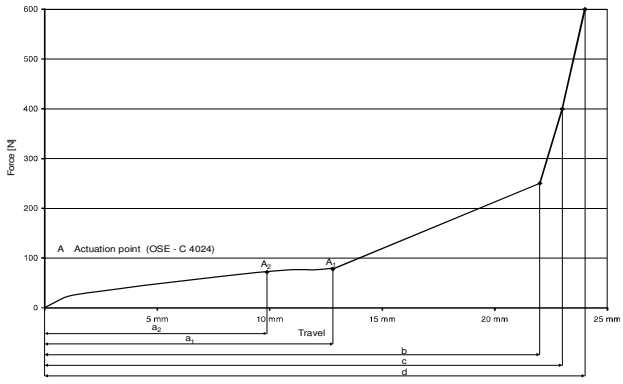
Specific data	
Material	EPDM or NBR
Hardness	70±5 Shore A
Height	30 mm
Width	25 mm
Length of the roll	50 m
Alu-C Profile	ALU –2509
Bumper	OSE-B3518
Detection of fingers	Possible
Article.-No.	EPDM: 75142050
	NBR: 10002453
Weight	0,3kg/m
Dead surface region	80 mm
Operating speed	max. 30 mm/s
Op. temperature	5 °C – 55 °C
Protection Class	IP67

Drawing OSE-P 25 33 00



Measuring parameters, temperature: T = 23 °C, fitting position: B (according to EN 1760-2), measuring point: C3 (according to EN 1760-2), operating speed: 100 mm/s to A, 10 mm/s up from A.

Force-travel-relation diagram



	OSE-C 4024		OSE-C 4524	
	Travel	Force	Travel	Force
$a_{1/2}$ Pretravel	12.8 mm	80 N	9.8 mm	78 N
b Total travel to reach the force 250 N	22.0 mm	250 N	22.0 mm	250 N
c Total travel to reach the force 400 N	23.0 mm	400 N	23.0 mm	400 N
d Total travel to reach the force 600 N	24.0 mm	600 N	24.0 mm	600 N

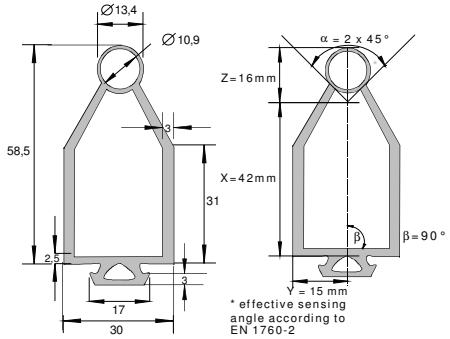
Follow-up range= b/c/d – a1/2 (The follow-up time depends on machine's further processing and braking speed).

O S E – D A T A S H E E T S P R O F I L E S

OSE-P 30 58 00

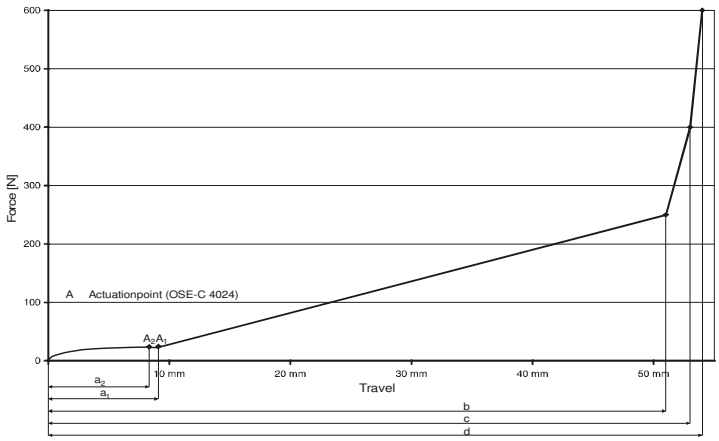
Specific data	
Hardness	65±5 Shore A
Height	58,5 mm
Width	30 mm
Length of the roll	25 m
Alu-C Profile	ALU - 3009
Detection of fingers	Possible
Dead surface region	80 mm
Operating speed	max. 30 mm/s
Op. temperature	5 °C - 55 °C
Protection Class	IP67
Bumper	OSE-B 3518
Cover plate	OSE-A-30 58 00

Drawing OSE-P 30 58 00



Parameters of measuring, temperature: T = 23°C, fitting position: B (according to EN 1760-2), measuring point: C3 (according to EN 1760-2), operating speed: 100 mm/s to A, 10 mm/s up from A.
The end sections are unable to detect fingers and must be marked accordingly.

Force-travel-relation diagram



	OSE-C 4024 Verformungsweg	Kraft	OSE-C 4524 Verformungsweg	Kraft
$a_{1/2}$ Ansprechweg	9,1 mm	23 N	8,0 mm	22 N
b Gesamtverformungsweg bis 250 N	51,0 mm	250 N	51,0 mm	250 N
c Gesamtverformungsweg bis 400 N	53,0 mm	400 N	53,0 mm	400 N
d Gesamtverformungsweg bis 600 N	54;0 mm	600 N	54,0 mm	600 N

Follow-up range= b/c/d – a1/2 (The follow-up time depends on machine's further processing and braking speed).

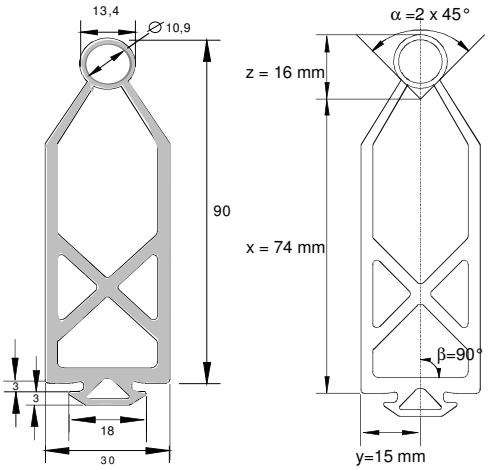
O S E – D A T A S H E E T S P R O F I L E S

OSE-P 30 90 01

Specific data	
Hardness	65±5 Shore A
Height	90 mm
Width	30 mm
Length of the roll	20 m
Alu-C Profile	ALU – 3009
Bumper	---
Detection of fingers	Yes
Article.-No.	75142080
Weight	0,9 kg/m
Dead surface region	50 mm
Operating speed	Max. 100mm/sec
Op. temperature	5 °C – 55 °C

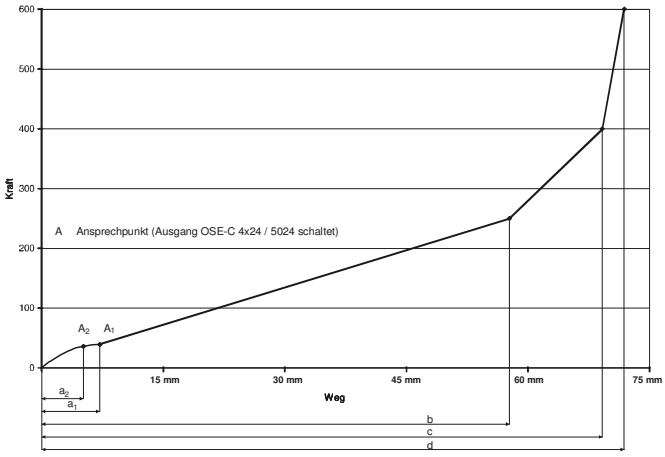
The end sections are unable to detected fingers and must be marked accordingly.

Drawing OSE-P 30 90 01



Parameters of measuring, temperature:
T=23°C, fitting position: B (according to EN 1760-2), measuring point: C3 (according to EN 1760-2), operating speed: 100 mm/s to A, 10 mm/s up from A.

Force-travel-relation diagram



	OSE-C 4024		OSE-C 4524 / OSE-C 5024	
	Travel	Force	Travel	Force
$a_{1/2}$ Pretravel	8,76 mm	40,5 N	7,16 mm	36,5 N
b Total travel to reach the force 250 N	58,4 mm	250 N	58,4 mm	250 N
c Total travel to reach the force 400 N	70,4 mm	400 N	70,4 mm	400 N
d Total travel to reach the force 600 N	72,8 mm	600 N	72,8 mm	600 N

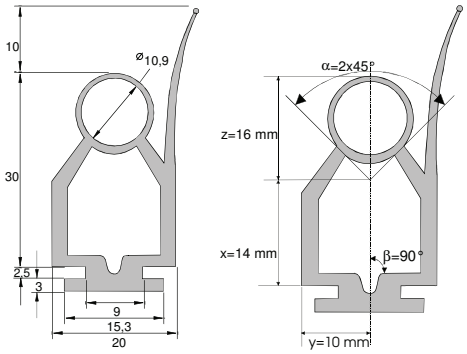
Follow-up range= b/c/d – a1/2 (The follow-up time depends on machine's further processing and braking speed).

O S E – D A T A S H E E T S P R O F I L E S

OSE-P 20 40 01

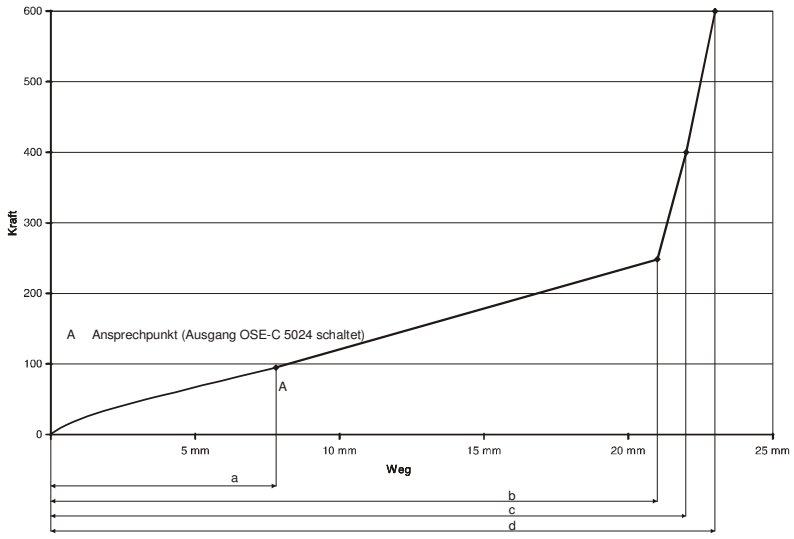
Specific data	
Hardness	70±5 Shore A
Height	30 mm
Width	20 mm
Length of roll	40 m
Alu-Profile	ALU - 2007
Detection of fingers	No
Bumper	OSE-B 3518
Article No.	75142044
Operation speed	max. 50 mm/s
Weight	0,3 kg/m
Op .temperature	5 °C bis 55 °C
Protection class	IP67

Drawing OSE-P 20 40 01



Parameters of measuring, temperatures: T=23°C, fitting position: B (to EN 1760-2), measuring point: C3 (to EN 1760-2), operation speed: 50 mm/s to A 10 mm/s by A. reminder deformation after long term stress within 30s after discharge with smaller /same 20%

Force-travel-relation diagramm



	OSE-C 5024 Travel	Force
a Pretravel	7,8 mm	94,5 N
b Total travel to reach the force 250 N	21,3 mm	250 N
c Total travel to reach the force 400 N	22,3 mm	400 N
d Tote travel to reach the force 600 N	23;2 mm	600 N

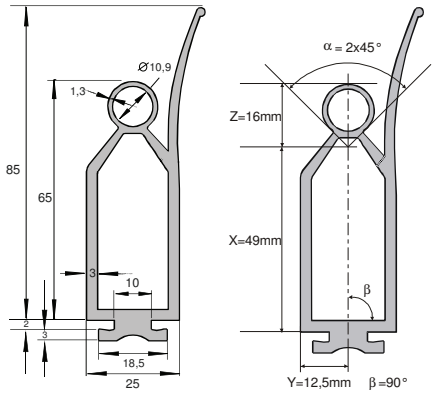
Follow-up range= b/c/d – a (The follow-up time depends on machine's further processing and breaking speed

O S E – D A T A S H E E T S P R O F I L E S

.OSE-P 25 90 00

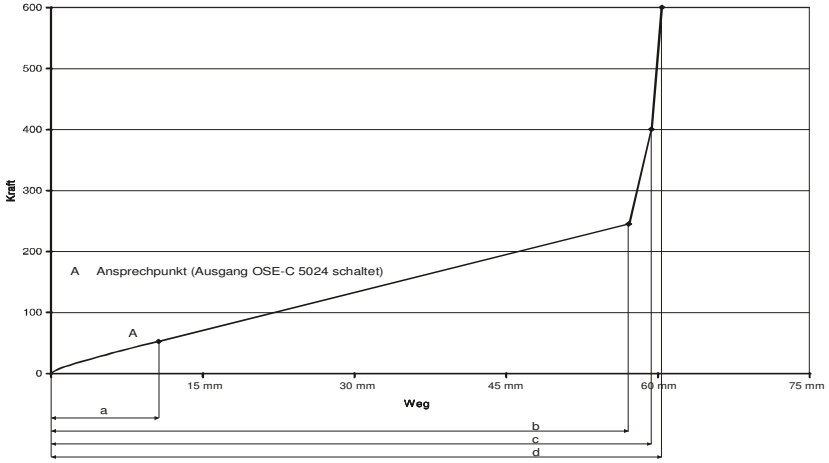
Specific data	
Harness	65±5 Shore A
Height	65 mm
Wight	25 mm
Length of roll	30 m
Alu-Profile	ALU - 2509
Detection of fingers	No
Bumper	OSE-B 5518
Article No.	75142016
Weight	0,8 kg/m
Op. temperature	-10 °C - 55 °C

Drawing OSE-P 25 90 00



Parameters of measuring, temperatures: T = 23°C, fitting position: B (to EN 1760-2), measuring point: C3 (to EN 1760-2), operation speed: 100 mm/s to A 10 mm/s by A. reminder deformation mm/s to A 10 mm/s by A. reminder deformation after long term stress within 30s after discharge with smaller /same 20%

Force-travel-relation diagram



	OSE-C 5024 Travel	Force
a Pretravel	10,0 mm	53,0 N
bTotal travel to reach the force 250 N	57,2 mm	250 N
cTotal travel to reach the force400 N	59,4 mm	400 N
dTotal travel to reach the force 600 N	60,8 mm	600 N

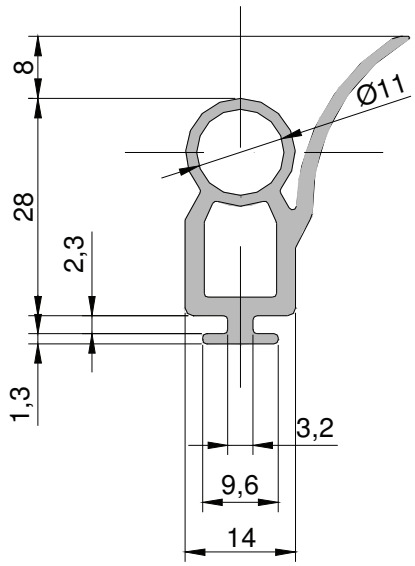
Follow-up range= b/c/d – a (The follow-up time depends on machine's further processing and breaking speed.

OSE – DATASHEETS PROFILES

OSE-P 14 36 00

Specific data	
Hardness	70±5 Shore A
Height	28 mm
Width	14 mm
Length of roll	50 m
Alu-C Profile	---
Bumper	OSE-B 3512
Article .-No.	75142046
Weight	0,2 kg/m

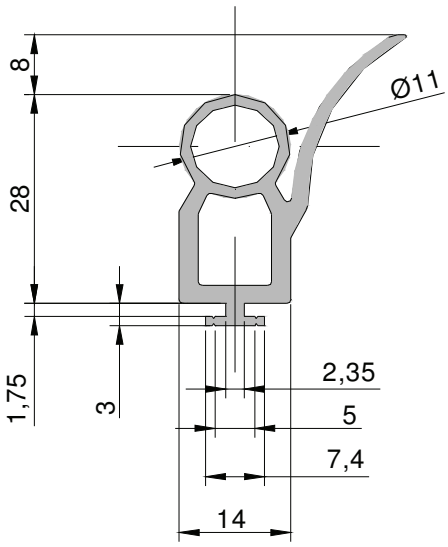
Drawing OSE-P 14 36 00



OSE-P 14 36 04

Specific data	
Hardness	70±5 Shore A
Height	28 mm
Width	14 mm
Length of roll	50 m
Alu-C Profile	---
Bumper	OSE-B 3512
Article .-No.	10002753
Weight	0,2 kg/m

Drawing OSE-P 14 36 04

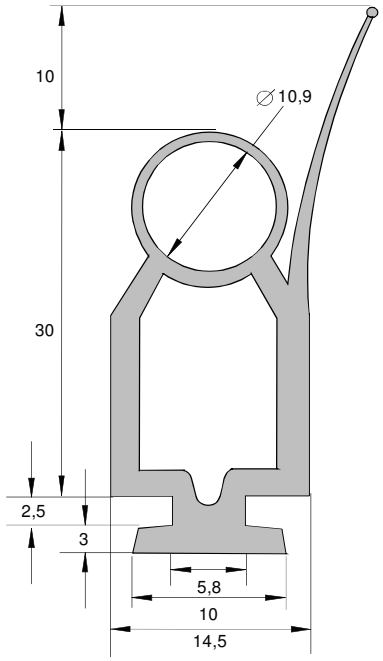


OSE – DATASHEETS PROFILES

OSE-P 15 40 00

Specific data	
Hardness	70±5 Shore A
Height	30 mm
Width	14.5 mm
Length of roll	50 m
Alu Profile	---
Bumper	OSE-B 3512
Article-No	75142042
Weight	0,3 kg/m

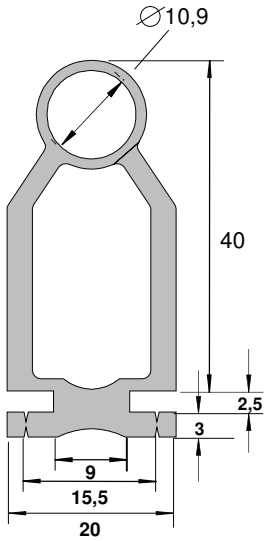
Drawing OSE-P 15 40 00



OSE-P 20 40 00

Specific data	
Harness	70±5 Shore A
Height	40 mm
Wight	20 mm
Length of roll	30 m
Alu-Profile	ALU – 2007
Bumper	OSE-B 3518
Detection of fingers	not tested
Article No.	75142060
Weight	0,3 kg/m
Dead surface region	not tested
Operating speed	max. 100 mm/s

Drawing OSE-P 20 40 00

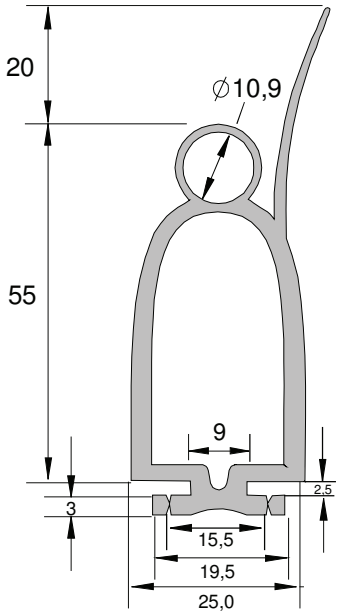


O S E – D A T A S H E E T S P R O F I L E S

OSE-P 25 75 01

Specific data	
Harness	70±5 Shore A
Height	55 mm
Wight	25 mm
Length of roll	22 m
Alu-Profile	ALU - 2509
Bumper	OSE-B 5518
Articel No.	75142010
Weight	0,6 kg/m

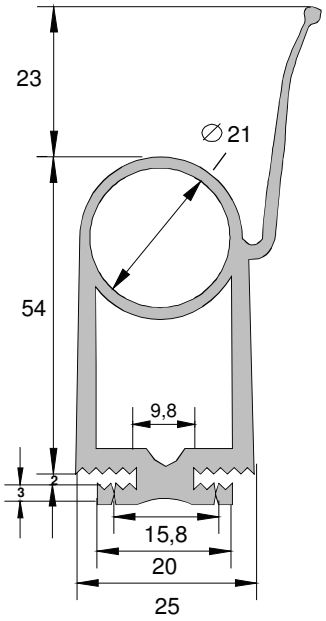
Drawing OSE-P 25 75 01



OSE-P 25 75 00

Specific Data	
Hardness	65±5 Shore A
Height	54 mm
Width	25 mm
Length of roll	30 m
Alu-C Profile	ALU – 2509
Bumper	OSE-B 5518
Article. No.	75142030
Weight	0,7 kg/m

Drawing OSE-P 25 75 00

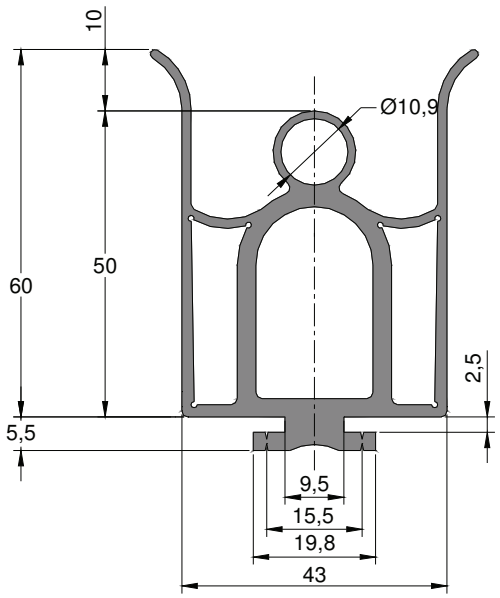


OSE – DATASHEETS PROFILES

OSE-P 45 60 00

Specific data	
Hardness	70±5 Shore A
Height	50 mm
Width	43 mm
Length of the roll	25 m
Alu-C Profile	ALU - 2509
Bumper	OSE-B 5328
Article No.	75142085
Weight	0,9 kg/m

Drawing OSE-P 45 60 00

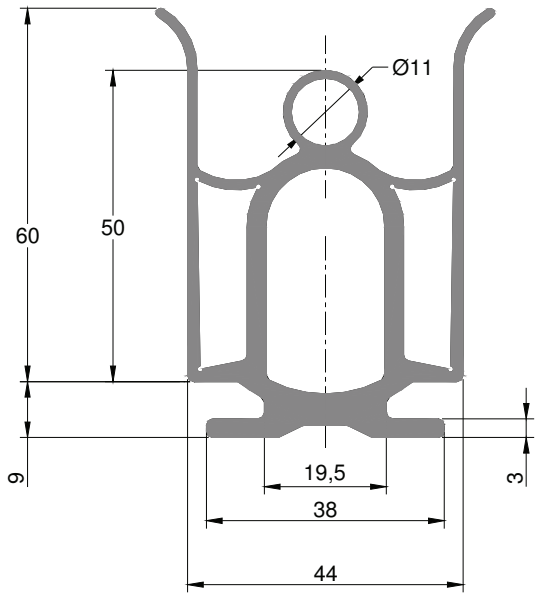


OSE-P 45 60 01

Specific data	
Hardness	65±5 Shore A
Height	50 mm
Width	44 mm
Length of the roll	25 m
Alu-C Profile	-
Bumper	OSE-B 5328*
Article No.	75142041
Weight	1,1 kg/m

*= on-site adjustment required

Drawing OSE-P 45 60 01



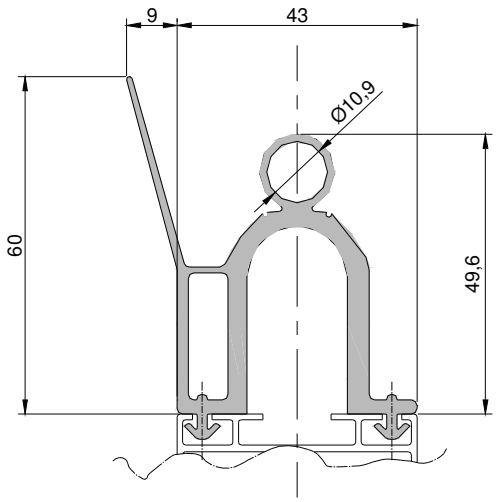
O S E – D A T A S H E E T S P R O F I L E S

OSE-P 45 60 02

Specific data	
Hardness	70±5 Shore A
Height	49,6 mm
Width	43 mm
Length of the roll	25 m
Alu-Profile	On side
Bumper	OSE-B 5328*
Articel No.	75142086
Weight	0,62 kg/m

*= Bumper may need modifications to fit in rail

Drawing OSE-P 45 60 02



OSE-P 45 60 04

Specific data	
Hardness	70±5 Shore A
Height	49,6 mm
Width	43 mm
Length of the roll	25 m
Alu-Profile	On side
Bumper	OSE-B 5328*
Articel No.	10004735
Weight	0,65 kg/m

*= Bumper may need modifications to fit in rail

Drawing OSE-P 45 60 04