Brügmann bluEvolution: 73

Panoramica di sistema

bE73 02

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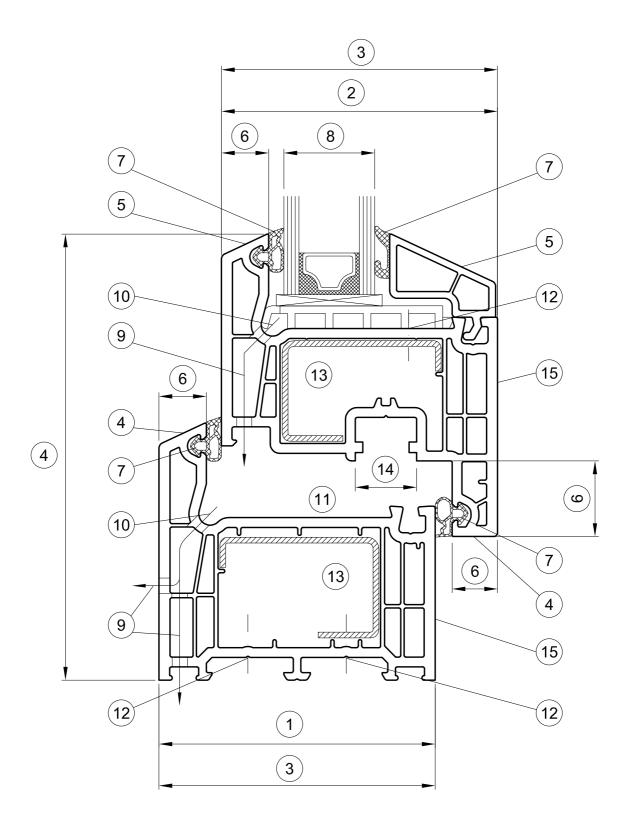




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2

Caratteristiche costruttive





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3

Caratteristiche costruttive

1	Profondità costruttiva		Telaio: Montante/traverso:		73mm 73mm	
2	Profondità costruttiva		Telaio e montante NL: Anta: Traverso anta:		115mm 73mm / 80,5mm / 84mm 73mm	
3	Struttura camera		Sistema a 4 e 5 camere a seconda delle esigenze di statica			
4	Larghezze a vista		da 118mm a 165mm			
5	Forma della battuta		Tutte le battute esterne inclinate di 25° Battuta interna anta dritta Fermavetri inclinati di 25°, con bordo arcuato e tondo per i diversi vetri e spessori di riempimento			
6	Battute	Larghezze battute : 12mm / 12,5mm Altezza battute: 20mm				
7	Guarnizioni	Guarnizione di battuta esterna in TPE o EPDM Guarnizione di battuta interna perimetrale in TPE o EPDM nell'anta Guarnizione di vetratura perimetrale lato esterno in TPE o EPDM Guarnizione in TPE nei fermavetri				
8	Vetratura	Tutte le comuni lastre di vetro isolanti per isolamento termico, acustico ed antieffrazione per elementi con spessore fino a 44mm . Battuta del vetro dritta per incollaggio vetro				
9	Drenaggio/ aerazione	Attraverso precamera separata frontale o nascosti sul lato inferiore				
10	Sede vetro	Camera di raccolta acqua di grandi dimensioni, sede vetro inclinata di 3mm in telaio ed anta				
11)	Sede vetro	Sede piana per facilitare la vetratura ed il montaggio dei tasselli				
12	Asse delle viti	Stesso asse delle viti per foro tasselli, fissaggio rinforzi e fissaggio montanti				
13)	Rinforzi	Rinforzi in acciaio zincato a seconda delle esigenze di statica Stessi rinforzi per telai ed ante con taglio standard				
14)	Ferramenta	Tutta la ferramenta reperibile sul mercato per gola europea 16mm e 13mm asse centrale, fissaggio componenti di sicurezza nel rinforzo				
15)	Spessore profili	Pareti esterne dei profili principali conformi alla RAL GZ 716/1 parte 1 e 7 così come DIN EN 12608, pareti interne secondo i requisiti costruttivi				

(16)

Montanti e traversi per mezzo di collegamenti meccanici o saldature

Giunzione profili Giunzioni angoli di telai ed ante per mezzo di saldature di testa

Traversine per mezzo di collegamenti meccanici

Brügmann bluEvolution: 73

Panoramica di sistema

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Caratteristiche costruttive

Isolamento termico

18

(26)

(17) Colore Massa omogenea in bianco con protezione superficiale Long-Life

Pellicole dekor standard su lato esterno ed interno Pellicole speciali su richiesta

Rivestimenti RAL su richiesta Copertine in alluminio

Valori Uf sistema 1,3 - 1,4 W/(m²K), così come 1,2 - 1,3 W/(m²K)

Valori Uw subordinati a dimensioni, vetro e unione bordo

Standard (1,23m x 1,48m) = 1,3 W/(m^2 K) (Ug=1,1 W/(m^2 K), Ψ =0,06W/mK)

(19) Isolamento acustico 34dB fino a 47dB

(20) Antieffrazione Fino a WK 2, finestre e porte , certificato SKG

(21) Collaudo del sistema Permeabilità all'aria: classe 4 finestre, classe 2 portoncini

Tenuta a pioggia battente: fino a 9A finestre, portefinestra, 5A portoncini

Tenuta al vento: fino a C4/B4

(22) Aerazione Possibilità di montaggio del sistema di aerazione climAktiv^{Plus} per ridurre i

rischi di danni da umidità

(23) Marcatura CE Può essere eseguita dal produttore come da DIN EN 14351 parte 1 e ITT

Protez. antincendio

Per le finestre in PVC non vi sono particolari esigenze, classificazione secondo la DIN EN 13501-1, E5

(25) Igiene Le finestre in PVC sono igienicamente sicure

Riassunto

1. <u>Materia prima:</u> materiale di qualità secondo direttive internazionali con eccellenti proprietà di durata nel tempo

2. <u>Sistema profili:</u> gamma di profili adatti ad ogni tipo di apertura desiderata

3. <u>Design profili:</u> geometrie di profili per una lavorazione razionale ed un'ottica armoniosa. Differenti larghezze a vista, adatte alle diverse dimensioni dei serramenti ed alle varie situazioni di posa, ante tonde e a rientranza.

4. Profondità costruttiva: telai, montanti 73mm, ante 73mm/ 80,5mm/ 84mm

 Ottica: aspetto classico e atemporale. Inclinazione esterna 25°, fermavetri a forma tonda e inclinata in forme oblique, curvate e arrotondate

6. Montante/scambio battuta: 4 varianti di ognuno a seconda delle dimensioni dei serramenti e dei requisiti di statica

7. <u>Statica:</u> grande stabilità dei profili in posa, grandi rinforzi. Differenti rinforzi da scegliere a seconda delle esigenze di statica

8. <u>Guarnizioni:</u> inserite in fase di produzione, saldabili, o in alternativa guarnizioni inseribili manualmente in nero e bianco papiro

9. <u>Portoncini:</u> integrati nel sistema, aperture interna o esterna, soglie, giunti ed accessori

10. <u>Superfici:</u> ampia gamma di pellicole, con venature o a buccia d'arancia così come pellicole speciali, copertine di alluminio

11. <u>Profili accessori:</u> profilo accessorio da agganciare al telaio a volte con 2 posizioni, integrato nel sistema di profili, adatto a più sistemi di profili

12. Giunto di posa: vasta gamma di profili accessori per soluzioni professionali in cantiere, sigillamento diretto senza ulteriori profili Lavorazione: tecnica di sistema per produzione convenzionale e automatizzata

13. <u>Campi di applicazione:</u> nuovi edifici e ristrutturazioni, edifici ed abitazioni, ristrutturazioni con mantenimento dello stile, case rurali e di città

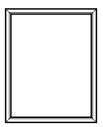
14. Recycling: conservazione delle risorse, riuso, durevolezza

Tipi di aperture

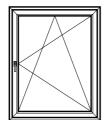
Finestre e porte a battente/ribalta

bE73 02

5



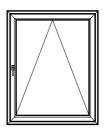
Vetratura fissa



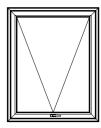
Finestra a battente/ribalta



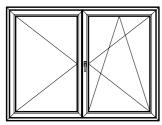
Finestra a battente



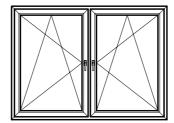
Finestra a ribalta



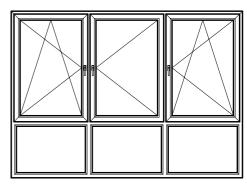
Finestra a ribalta



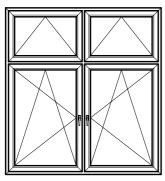
Finestra scambio battuta



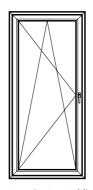
Finestra a 2 ante



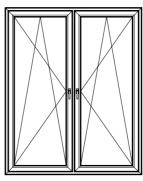
Finestra a più elementi



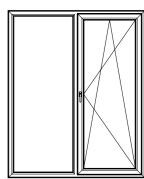
Finestra a più ante



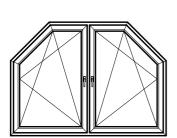
Porta a battente/ribalta



Porta a 2 ante



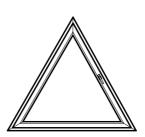
Porta a battente/ribalta con elemento laterale



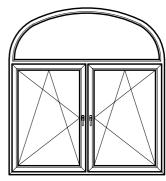
Elementi obliqui



Finestra ad arco



Finestra a 3 angoli



Elemento con arco a cesto



Versione: 05/2017



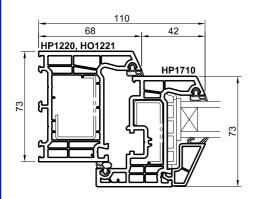
Presentazione di sistema

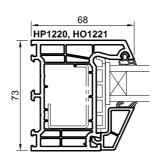
Sezioni

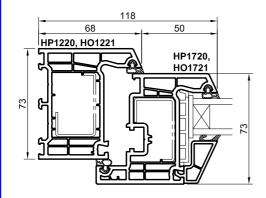
Finestre e porte a battente/ribalta

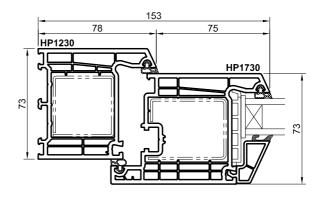
bE73 02

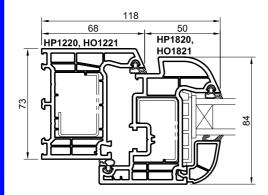
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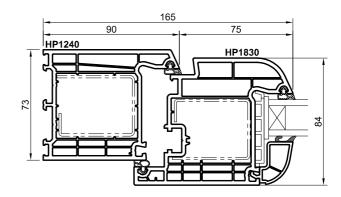


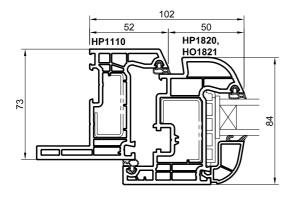


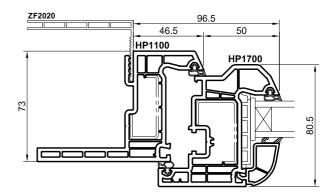








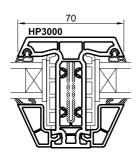


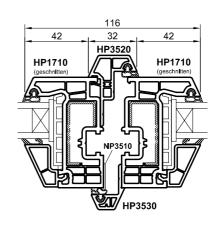


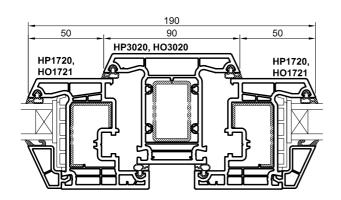
Versione: 05/2017 SALAMAND

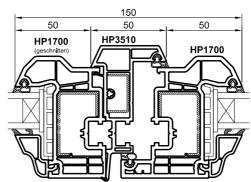
Finestre e porte a battente/ribalta

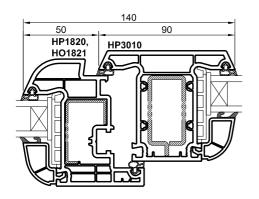
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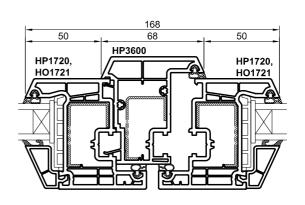


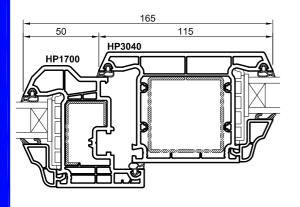


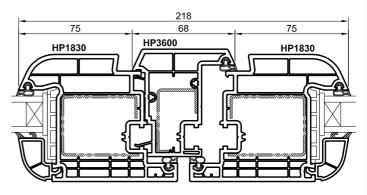






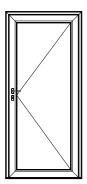






Porta di entrata secondaria (NET)

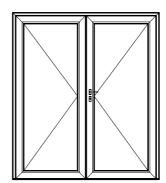
bE73 02



Porta a battente



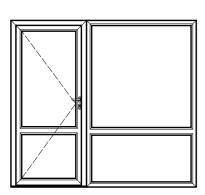
Porta a battente con traversina



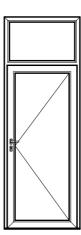
Porta con scambio battuta



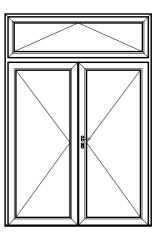
Porta a 2 ante



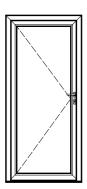
Porta a battente con traversina ed elemento laterale



Porta a battente con sopraluce fisso



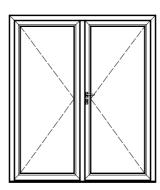
Porta con scambio battuta e sopraluce a ribalta



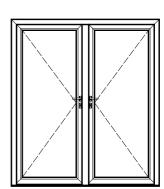
Porta a battente



Porta a battente con traversina



Porta con scambio battuta



Porta a 2 ante

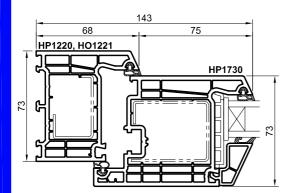


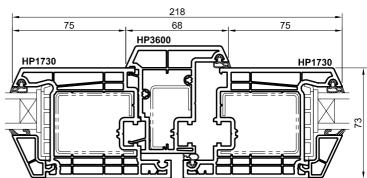
Panoramica di sistema

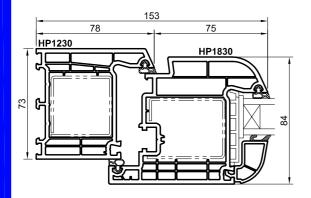
Sezioni

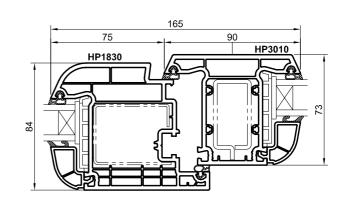
Porta d'entrata secondaria (NET)

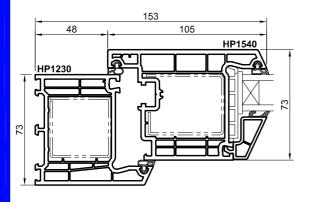
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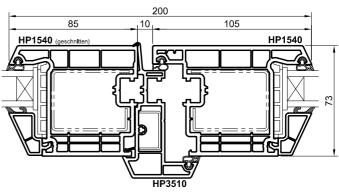


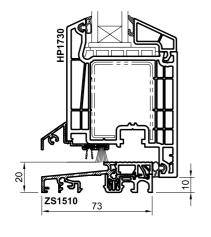


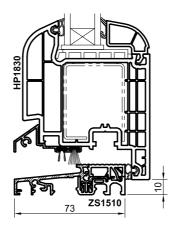


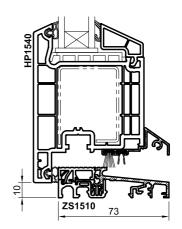






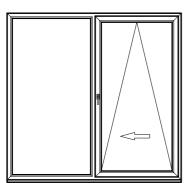




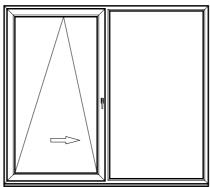


Porta scorrevole parallela a ribalta (PSK)

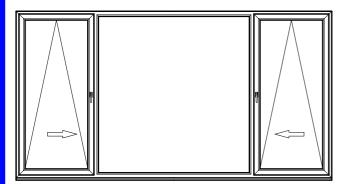
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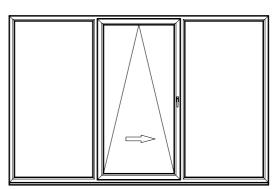
Porta scorrevole parallela a ribalta, 2 componenti



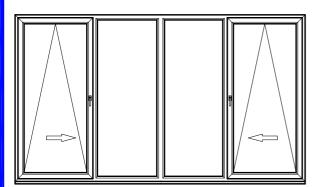
Porta scorrevole parallela a ribalta, 2 componenti



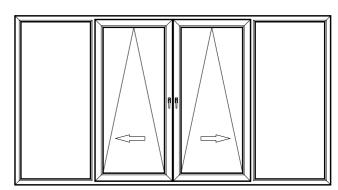
Porta scorrevole parallela a ribalta, 3 componenti



Porta scorrevole parallela a ribalta, 3 componenti



Porta scorrevole parallela a ribalta,4 componenti



Porta scorrevole parallela a ribalta, 4 componenti

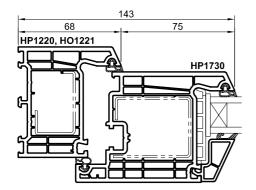


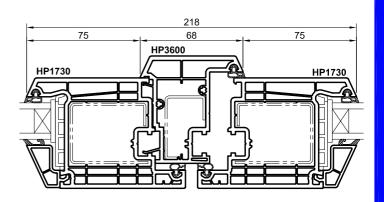
Panoramica di sistema

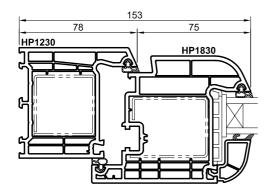
Sezioni

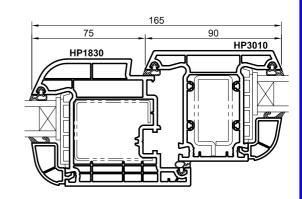
Porta scorrevole parallela a ribalta (PSK)

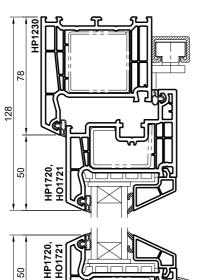
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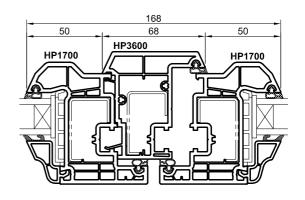


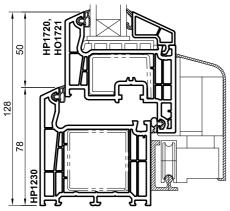


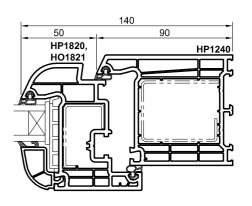






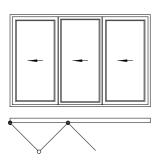




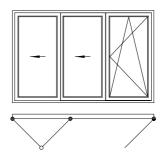


Porta scorrevole a libro (FST)

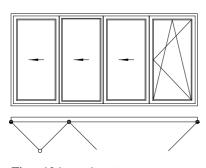
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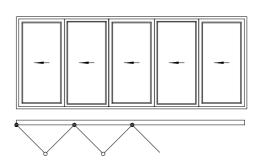
Tipo 330 3 ante



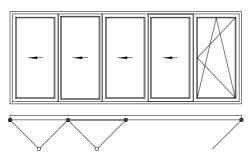
Tipo 321 3 ante



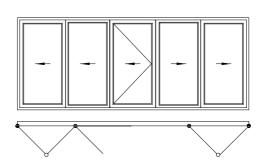
Tipo 431 4 ante



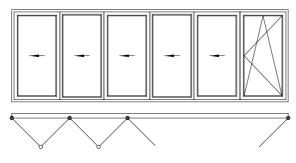
Tipo 550 5 ante



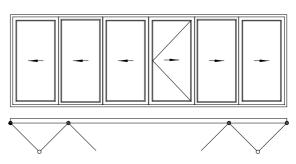
Tipo 541 5 ante



Tipo 532 5 ante



Tipo 651 6 ante

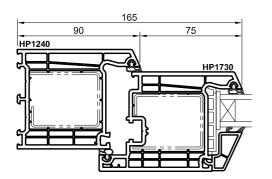


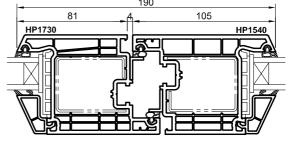
Tipo 633 6 ante

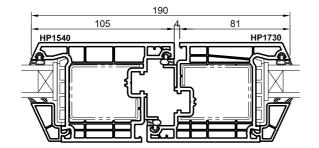


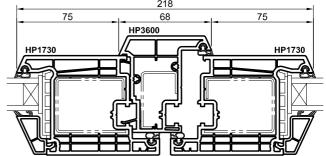
Porta scorrevole a libro (FST)

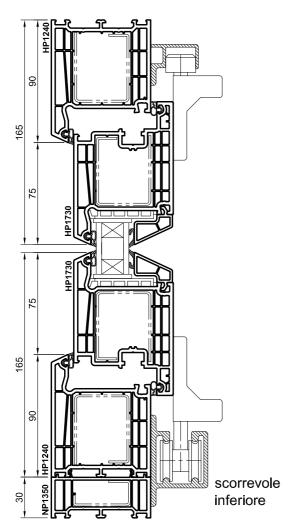
bE73 02

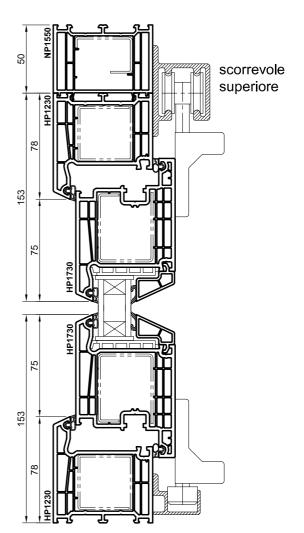










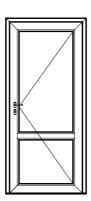


Portoncino (HT)

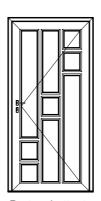
bE73 02



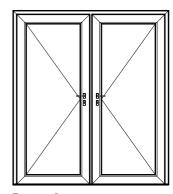
Porta a battente



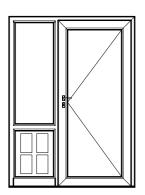
Porta a battente con traversine



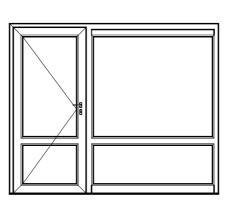
Porta a battente con riempimento



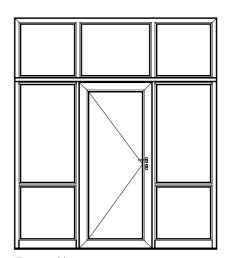
Porta a 2 ante



Porta a battente con elemento laterale



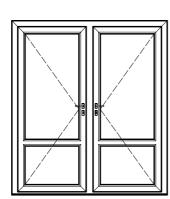
Porta a battente con elemento laterale



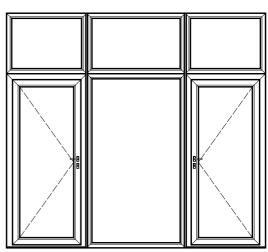
Elementi ingresso



Porta a battente



Porta a 2 ante

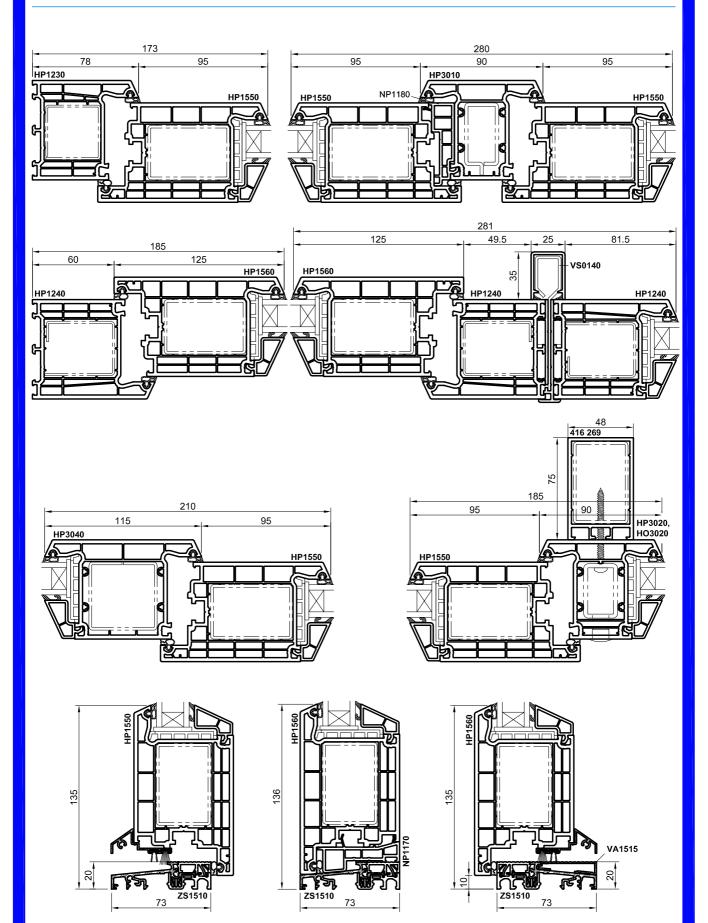


Elementi ingresso



Portoncino (HT)

bE73 02

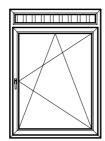


Olanda (NL)

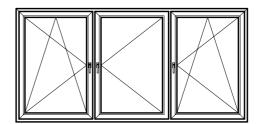
bE73 02



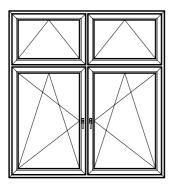
Finestra a battente/ribalta



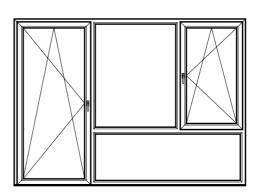
Finestra a battente/ribalta



Finestra a più elementi



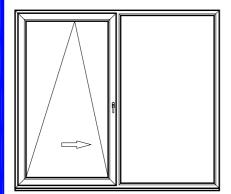
Finestra a più elementi



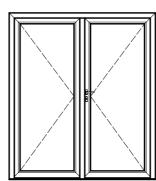
Finestra a più elementi



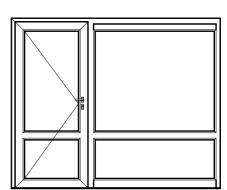
Porta a battente



Porta scorrevole parallela a ribalta, 2 componenti



Porta con scambio battuta



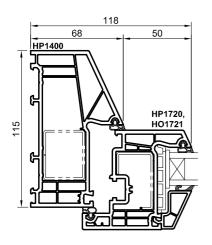
Porta a battente

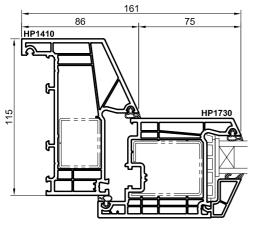


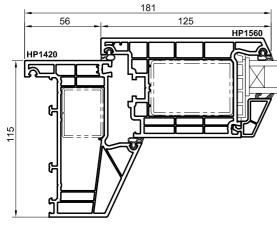
Olanda (NL)

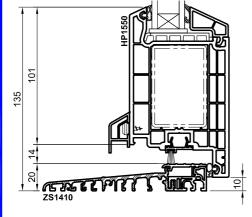
bE73 02

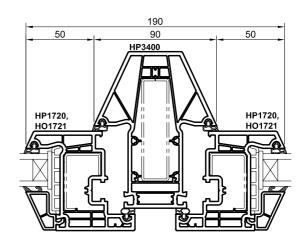
17

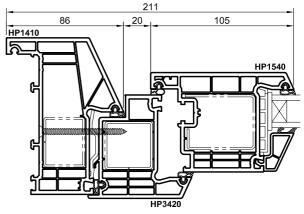


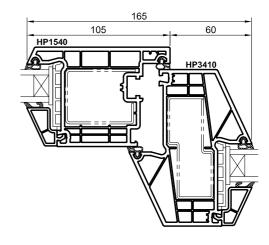


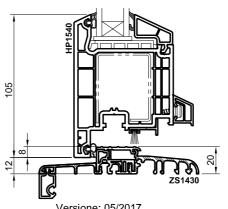












Versione: 05/2017



Copertine di alluminio (AL)

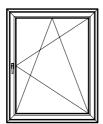
bE73 02

18



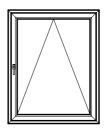


Vetratura fissa

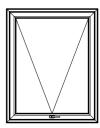


Finestra a battente/ribalta Finestra a battente

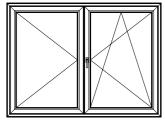




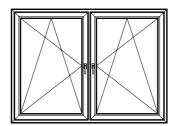
Finestra a ribalta



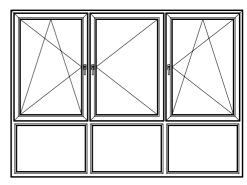
Finestra a ribalta



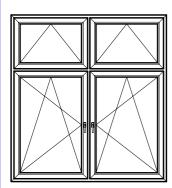
Finestra con scambio battuta



Finestra a 2 ante



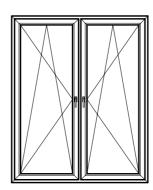
Finestra a più elementi



Finestra a più elementi



Porta a battente/ribalta Porta a 2 ante

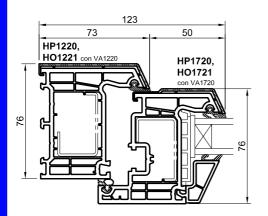


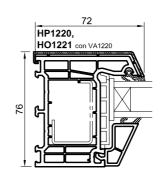
Porta a battente/ribalta con elemento laterale

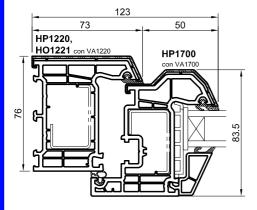


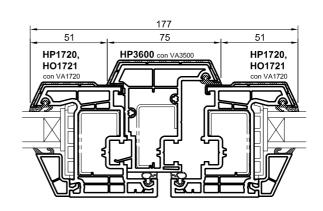
Copertine di alluminio (AL)

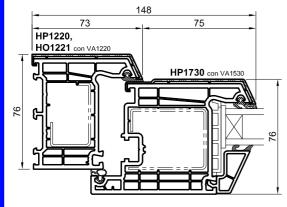
bE73 02

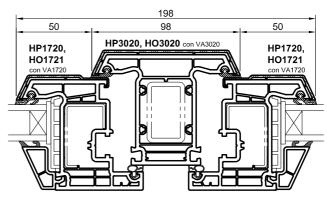


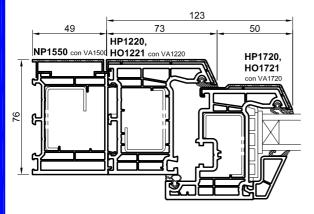


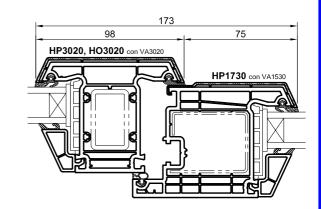














Panoramica di sistema

Brügmann bluEvolution: 73

bE73 02

20

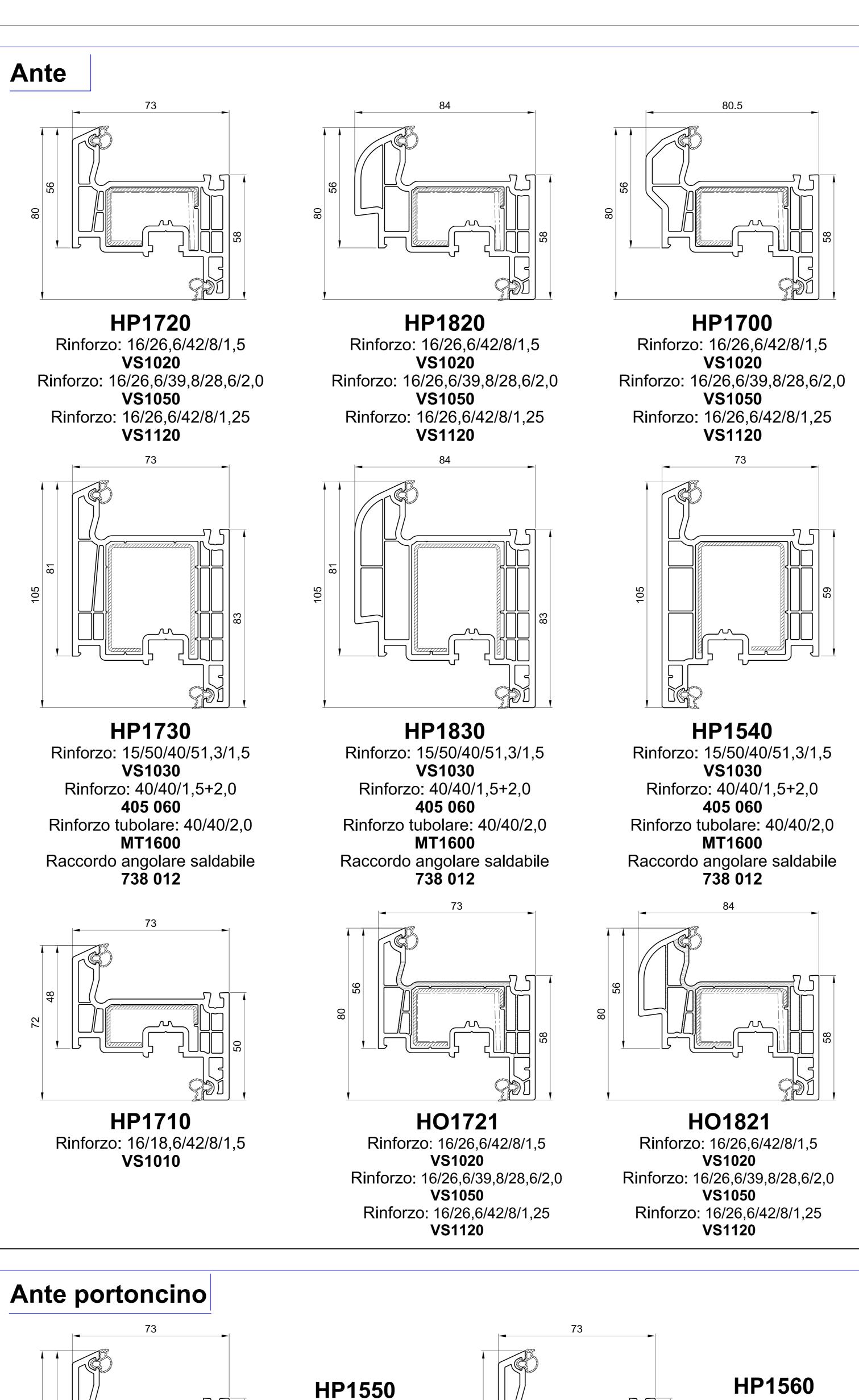
SALAMANDER.

bE73 001

versione: 06/2017

Telai **HP1230 HP1220** Rinforzo: 40/40/1,5+2,0 Rinforzo: 16/26,6/42/8/1,5 **VS1020** 405 060 Rinforzo: 16/26,6/39,8/28,6/2,0 Rinforzo per portoncino: 17,5/40/40/40/1,5 **VS1050** Rinforzo: 16/26,6/42/8/1,25 **VS1230 VS1120 HP1240** Rinforzo: 15/50/40/51,3/1,5 **VS1030** Rinforzo: 19/40/50/40/11/1,5 AC4710 Rinforzo: 50/40/2,0 **AR1920 HP1100 HP1110** Rinforzo: 16/18,6/42/8/1,5 Rinforzo: 16/18,6/42/8/1,5 VS1010 VS1010 **HO1221 HO1201** Rinforzo: 16/26,6/42/8/1,5 **VS1020** Rinforzo: 16/26,6/39,8/28,6/2,0 VS1050 Rinforzo: 16/26,6/42/8/1,25

VS1120



Rinforzo: 40/60/2,0

AR4630

Rinforzo tubolare: 40/60/2,0

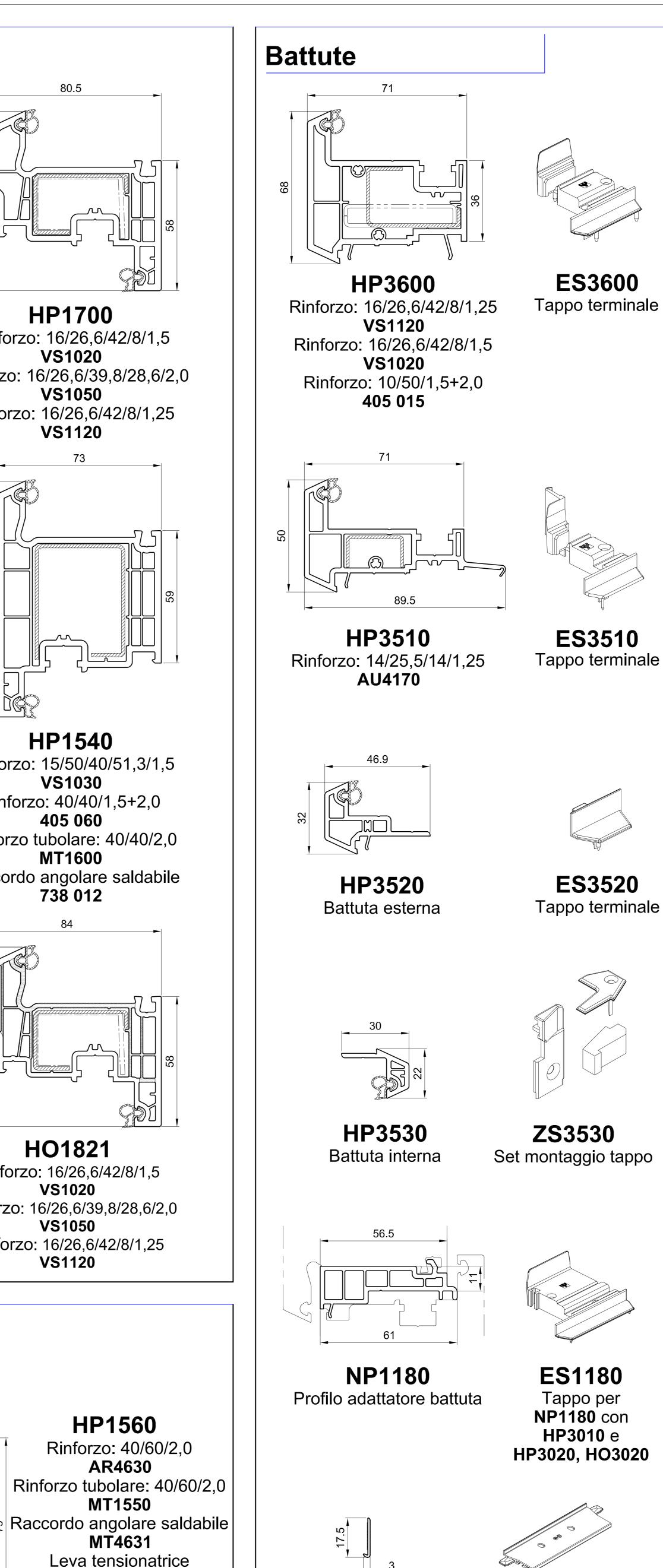
MT1550

Raccordo angolare saldabile

MT4631

Leva tensionatrice

207 910



NP3510

Profilo di copertura

autoadesivo

ES1025

Compensatore

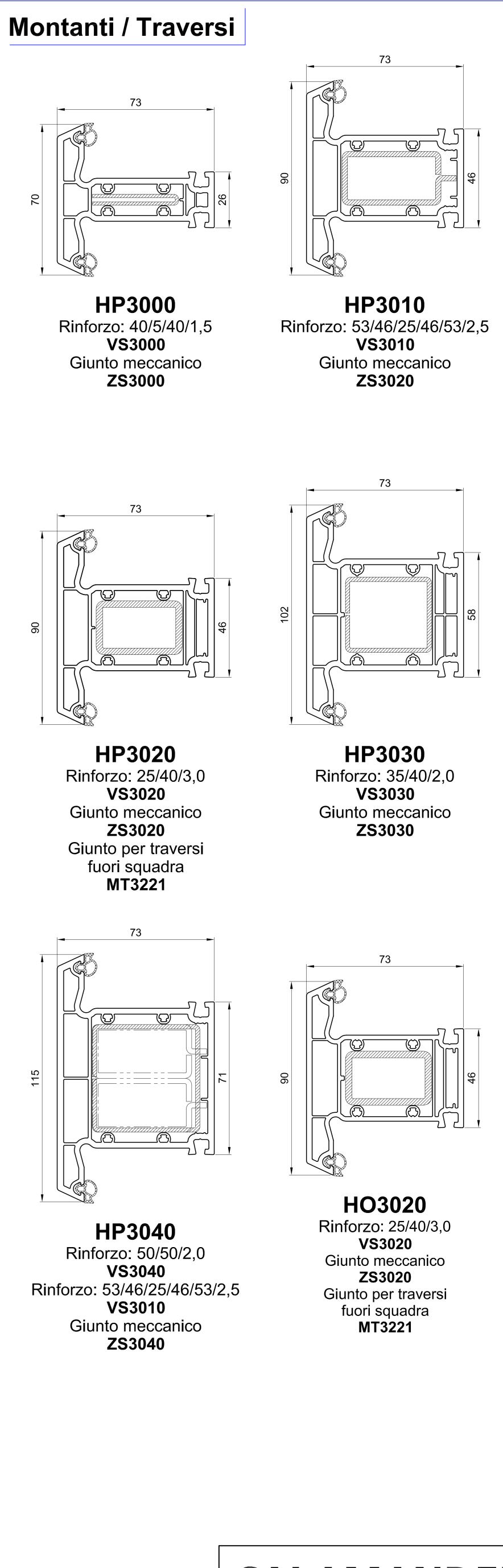
scambio battuta

per **HP3600, HP3510**

AR4630

MT1550

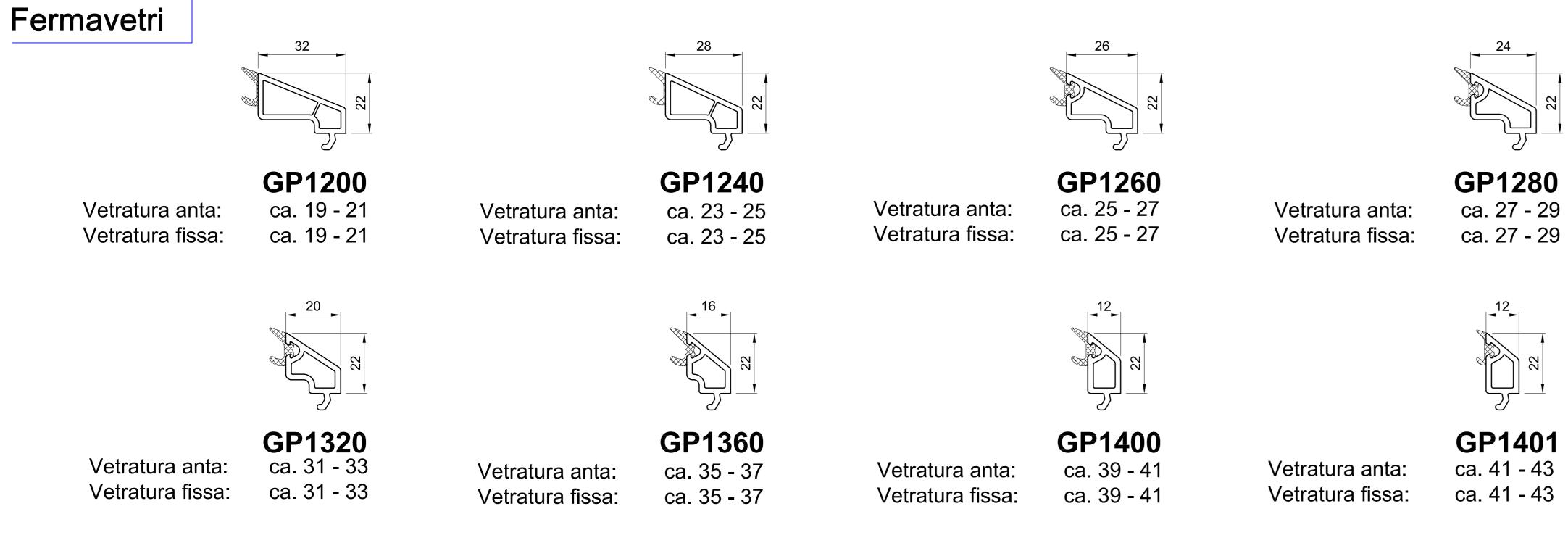
MT4631



Accessori 1

bE73 Zub1 versione: 06/2017

ES1500



GP2240

ca. 23 - 25

ca. 23 - 25

GP5280

ca. 27 - 29

ca. 27 - 29

GP2320

ca. 31 - 33

ca. 31 - 33

GP5440

ca. 43 - 45

ca. 43 - 45

Vetratura anta:

Vetratura fissa:

Vetratura anta:

Vetratura fissa:

ZS1510

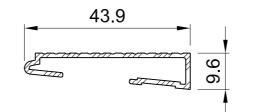
Soglia portoncino **ZS1100** Aggancio soglia per telaio HP1100 / HP1110 **ZS1200** Aggancio soglia per telaio HO1200 **ZS1220** Aggancio soglia per telaio HP1220 **ZS1230** Aggancio soglia per telaio HP1230 ZS1240 Aggancio soglia per telaio HP1240 **ZS1320** Aggancio montante per montante / traverso HP3020 **ZS1330** Aggancio montante

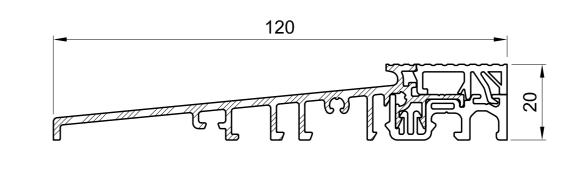
per montante / traverso HP3030

ZS1340 Aggancio montante

Soglie portoncino

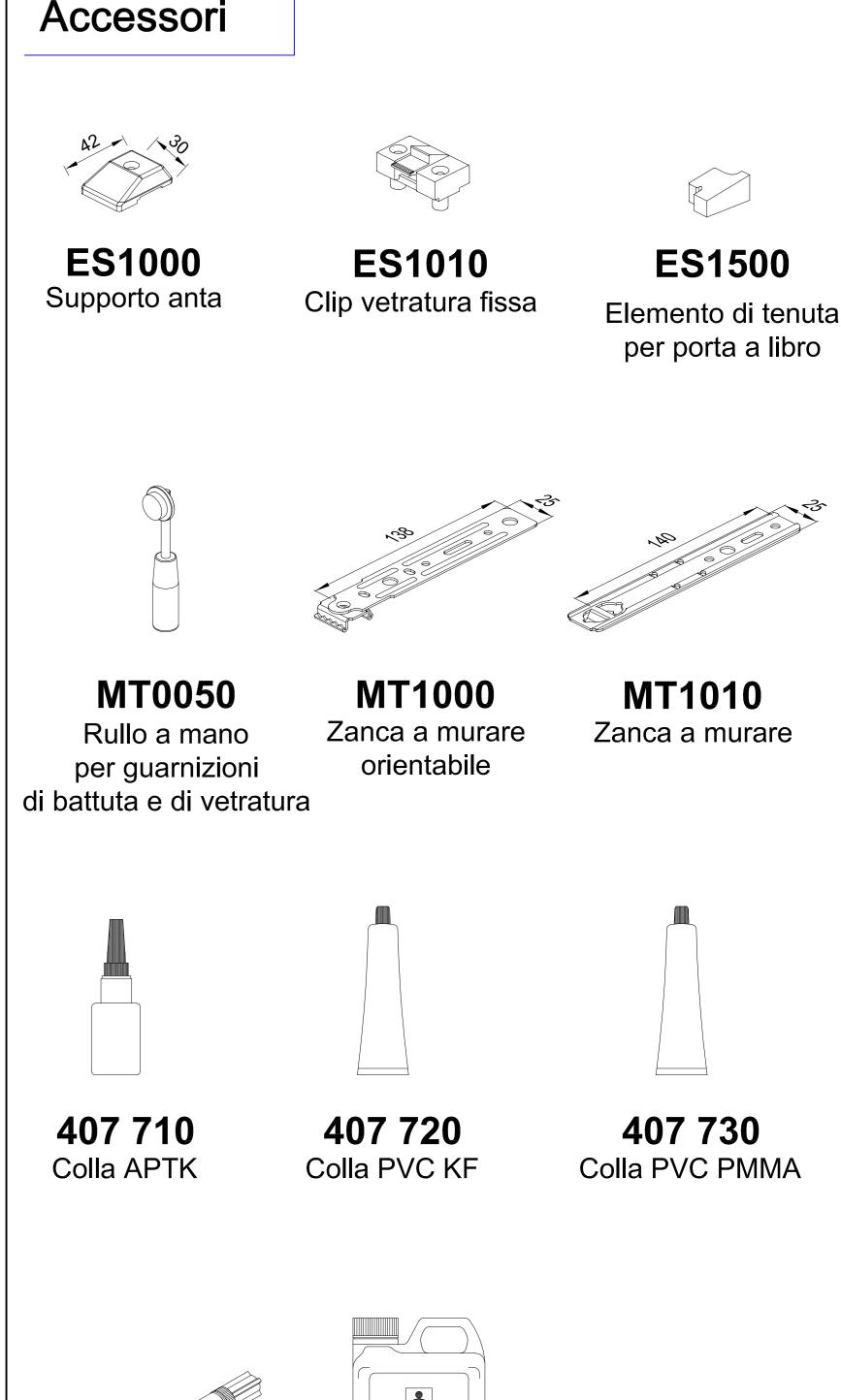
per montante / traverso HP3040 VA1515 Adattatore





ZS1550

Soglia portoncino **ZS1100** Aggancio soglia per telaio HP1100 / HP1110 ZS1200 Aggancio soglia per telaio HO1200 **ZS1220** Aggancio soglia per telaio HP1220 **ZS1230** Aggancio soglia per telaio HP1230 **ZS1240** Aggancio soglia per telaio HP1240 **ZS1320** Aggancio montante per montante / traverso HP3020 **ZS1330** Aggancio montante per montante / traverso HP3030 **ZS1340** Aggancio montante per montante / traverso HP3040





Vetratura anta:

Vetratura fissa:

Vetratura anta:

Vetratura fissa:



GP1440

ca. 43 - 45

ca. 43 - 45

GP5240

ca. 23 - 25

ca. 23 - 25

DP1040 Guarnizione di battta inserimento a mano, interna ed esterna

materiale: EPDM

DP2440 Guarnizione di battuta e di vetratura inserimento a mano, esterna materiale: TPE

Vetratura anta:

Vetratura fissa:

Vetratura anta:

Vetratura fissa:



DP2540 Guarnizione di battuta inserimento a mano, interna materiale: TPE



Vetratura anta:

Vetratura fissa:

Vetratura anta:

Vetratura fissa:

GZ1000

GP2280

ca. 27 - 29

ca. 27 - 29

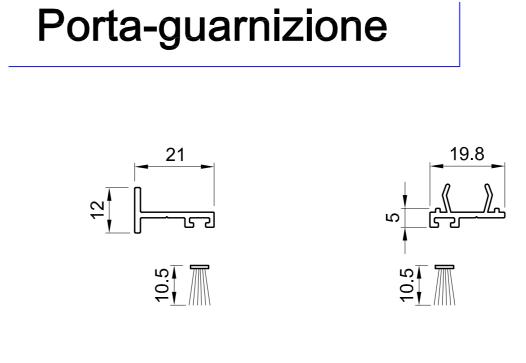
GP5400

ca. 39 - 41

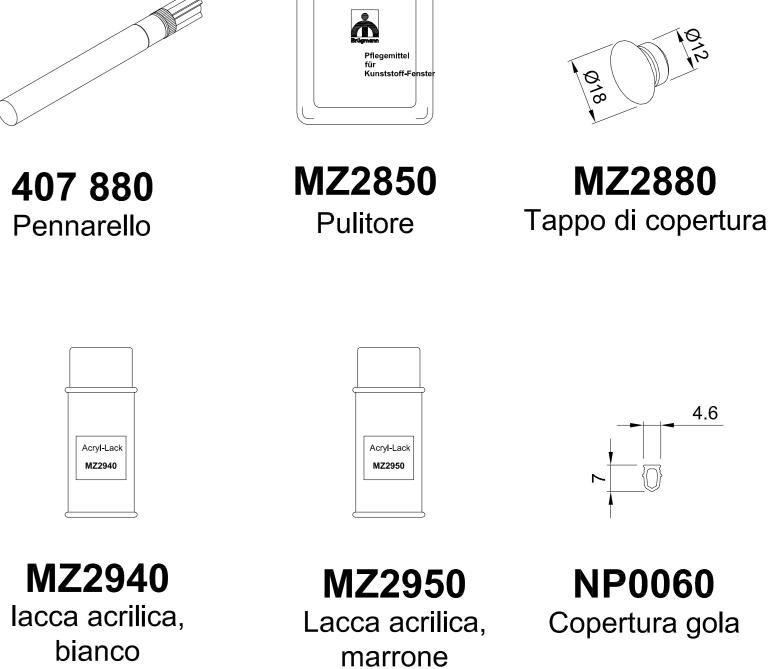
ca. 39 - 41

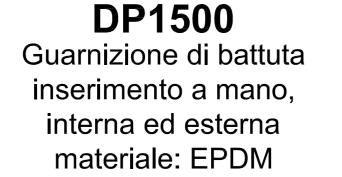


NP1170 Fiancata portoncino



NP1510 NP1520 per gola da 20 mm per gola europea guarnizione a spazzola guarnizione a spazzola **RZ1500 RZ1500**







GD6100 Guarnizione di vetratura fessura 2-3 mm inserimento a mano materiale: EPDM

DP2270

Guarnizione di battuta

inserimento a mano,

esterna

compensazione di pressione

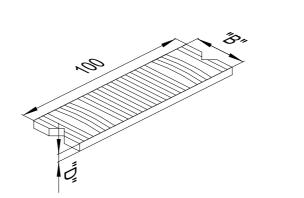
materiale: EPDM



Guarnizione di vetratura fessura 3-5 mm inserimento a mano materiale: EPDM

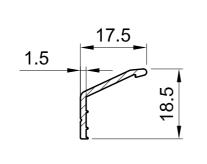
Spessore di vetratura

Ponte di vetraggio

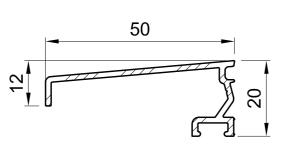


GZ3020 - GZ3060 30 mm, 2-6 mm GZ3420 - GZ3450 34 mm, 2-5 mm **GZ4020 - GZ4050** 40 mm, 2-5 mm

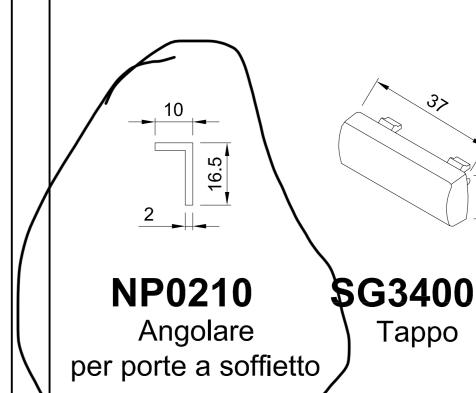
Proteggi soglia



VA1000 Alluminio anodizzato per telai

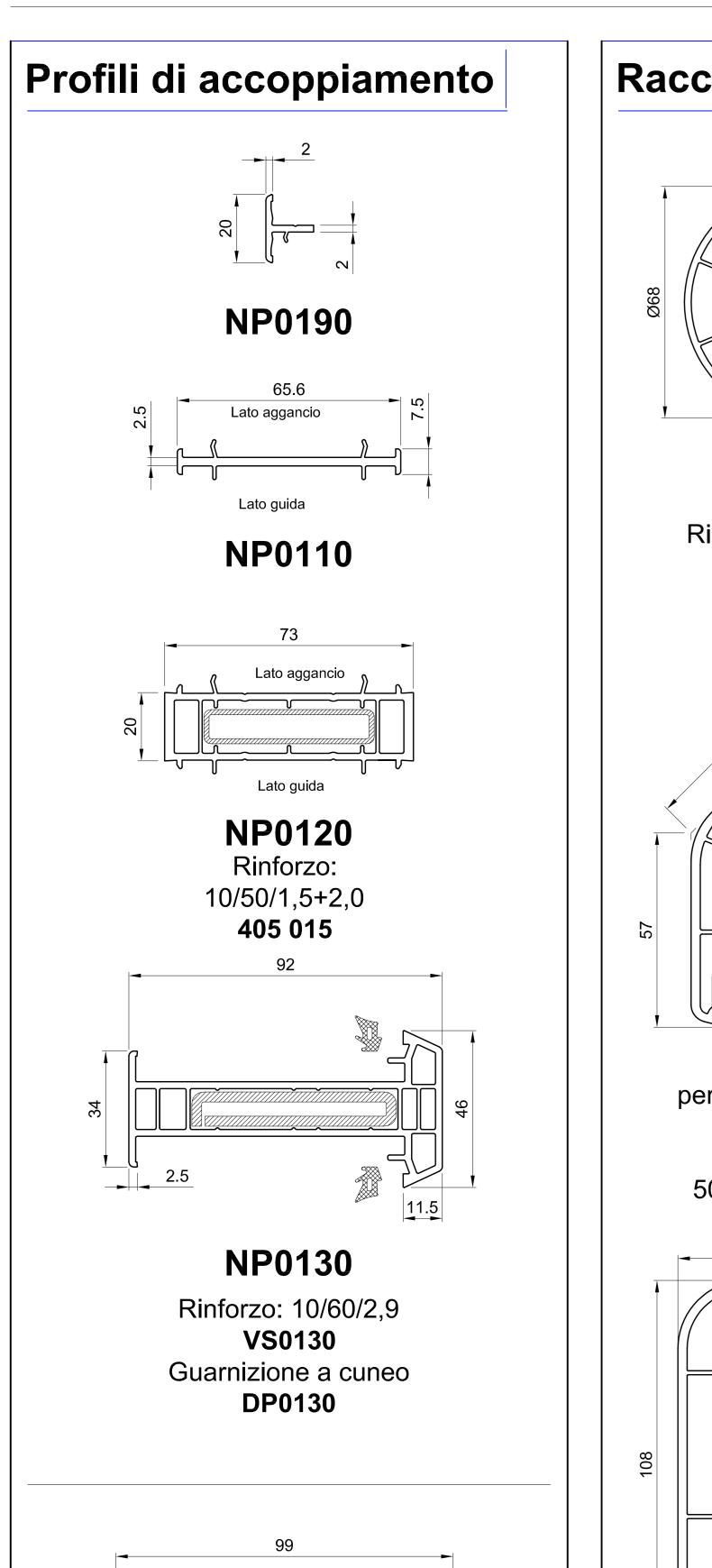


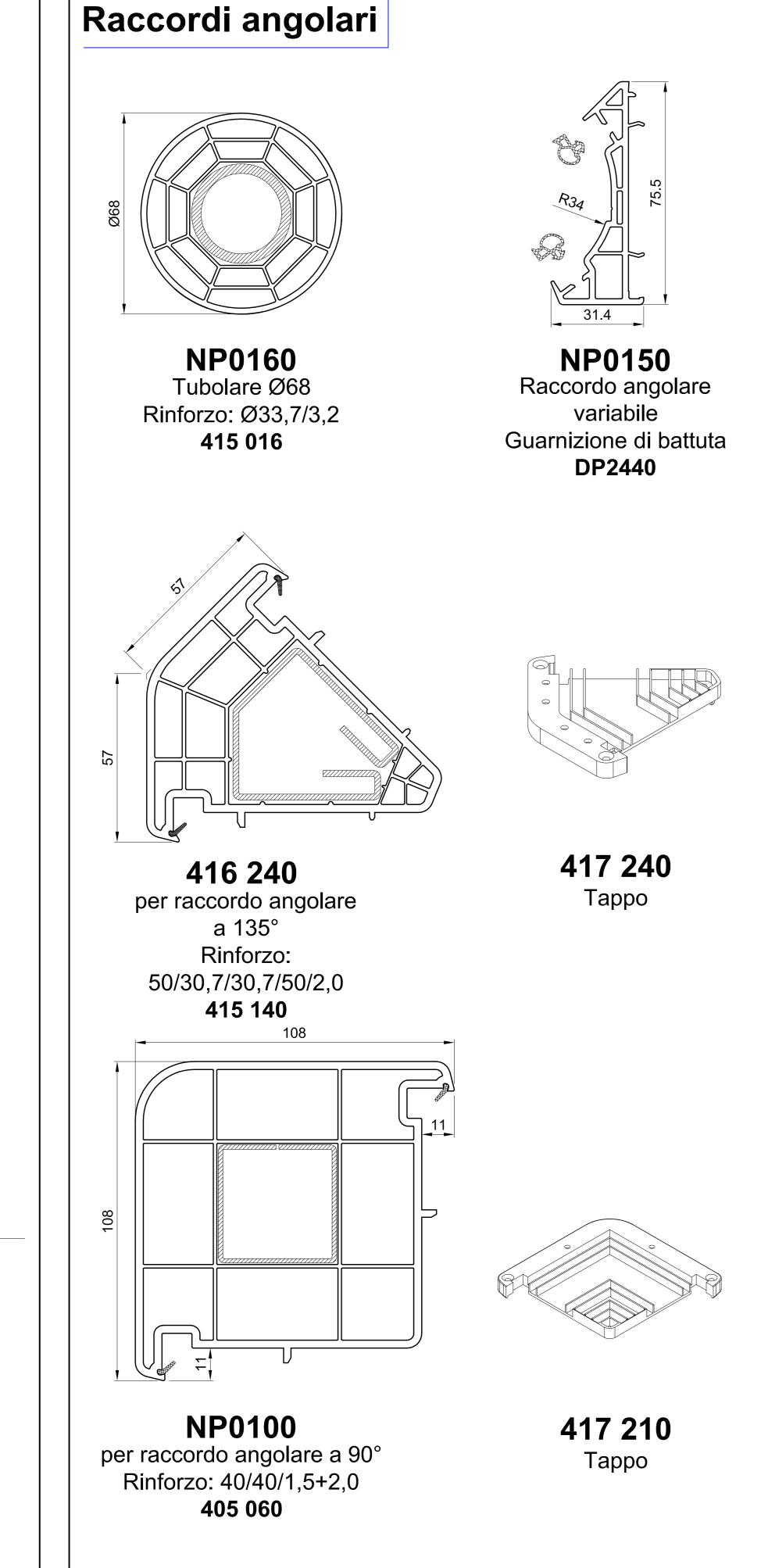
VA1010 Alluminio anodizzato

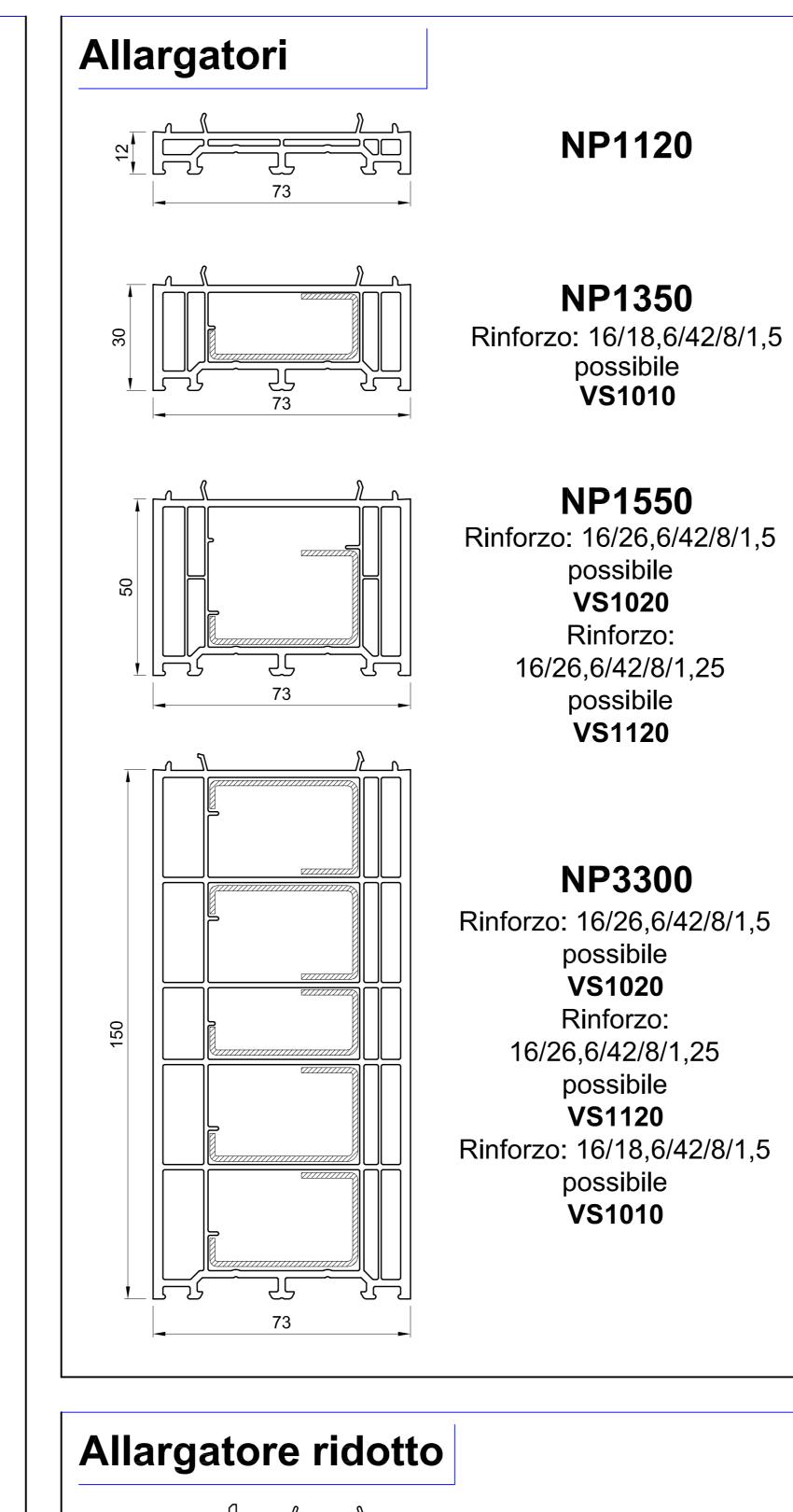


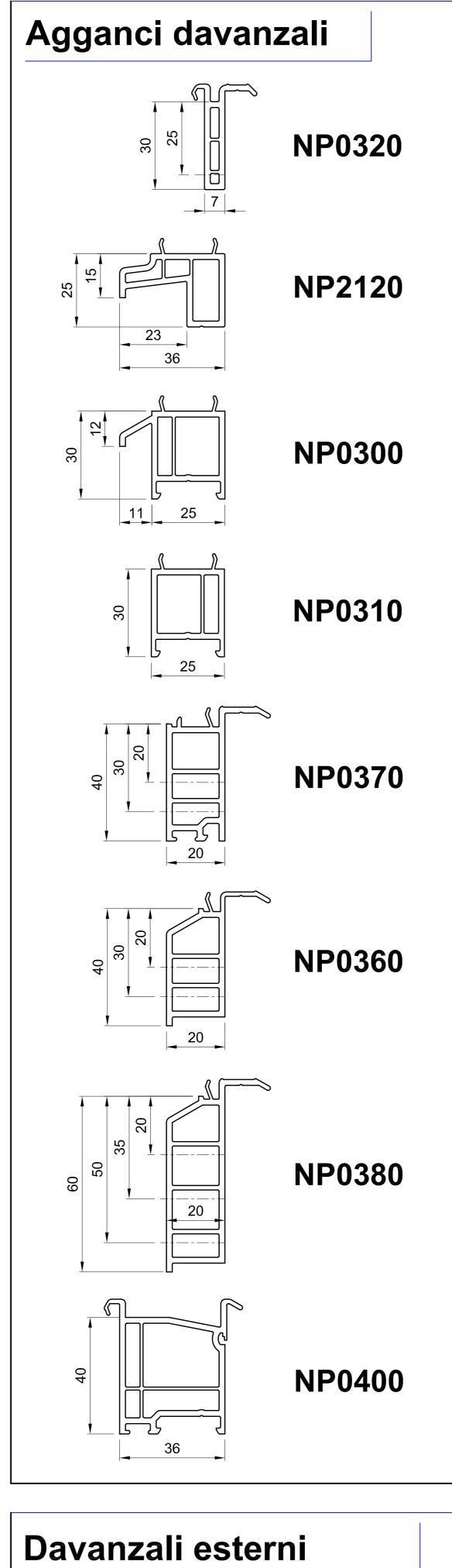
Rinforzi 2

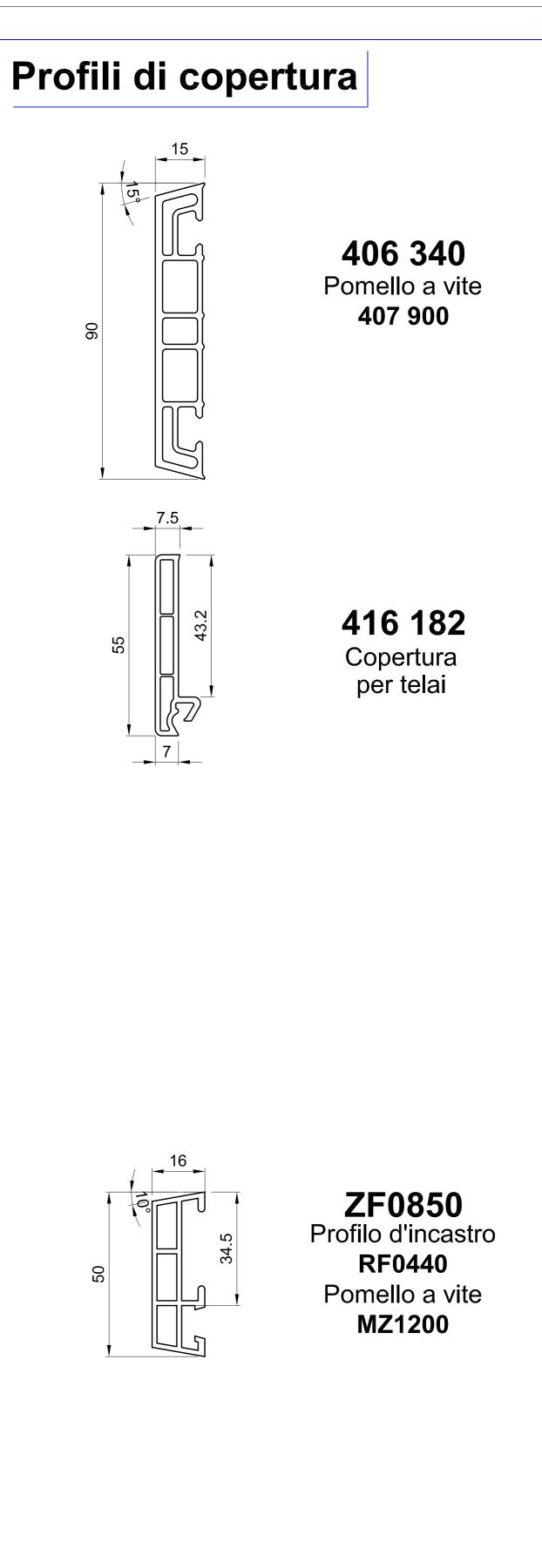
bE73 Zub2 versione: 04/2018

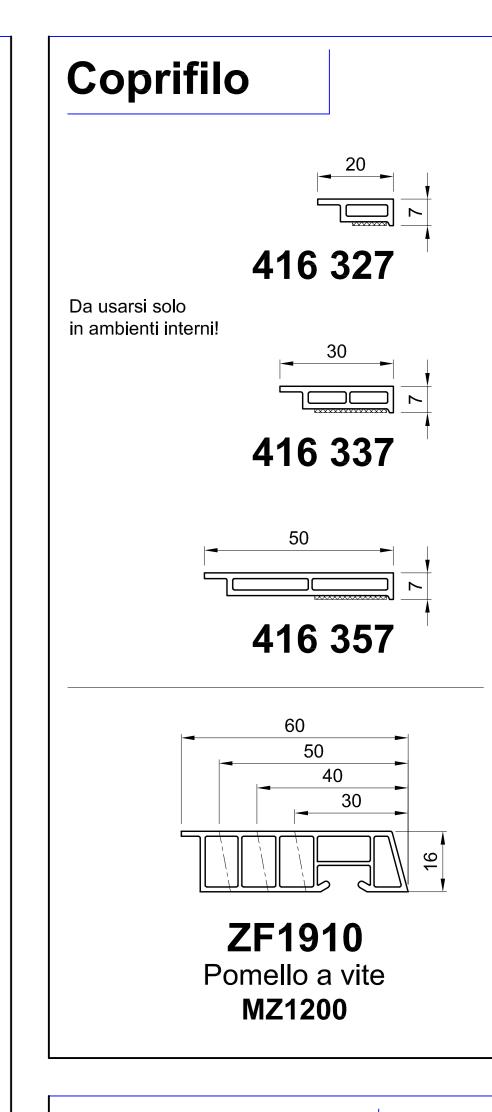


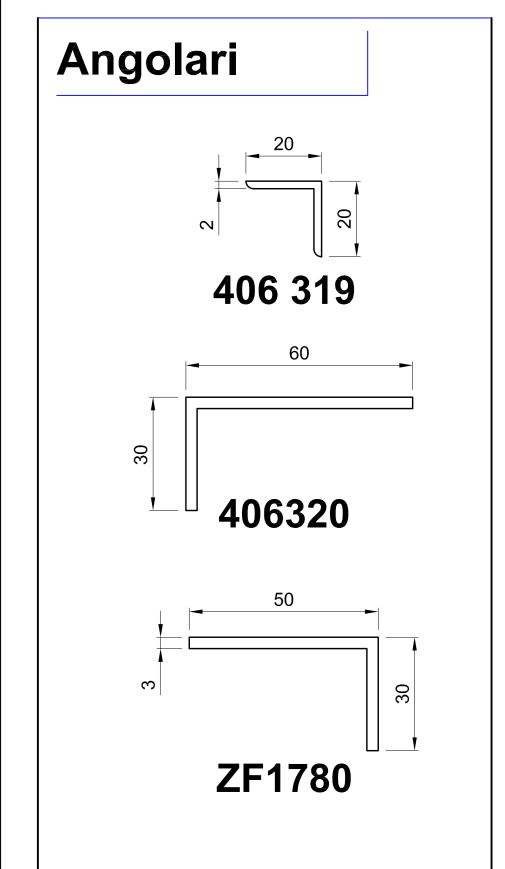


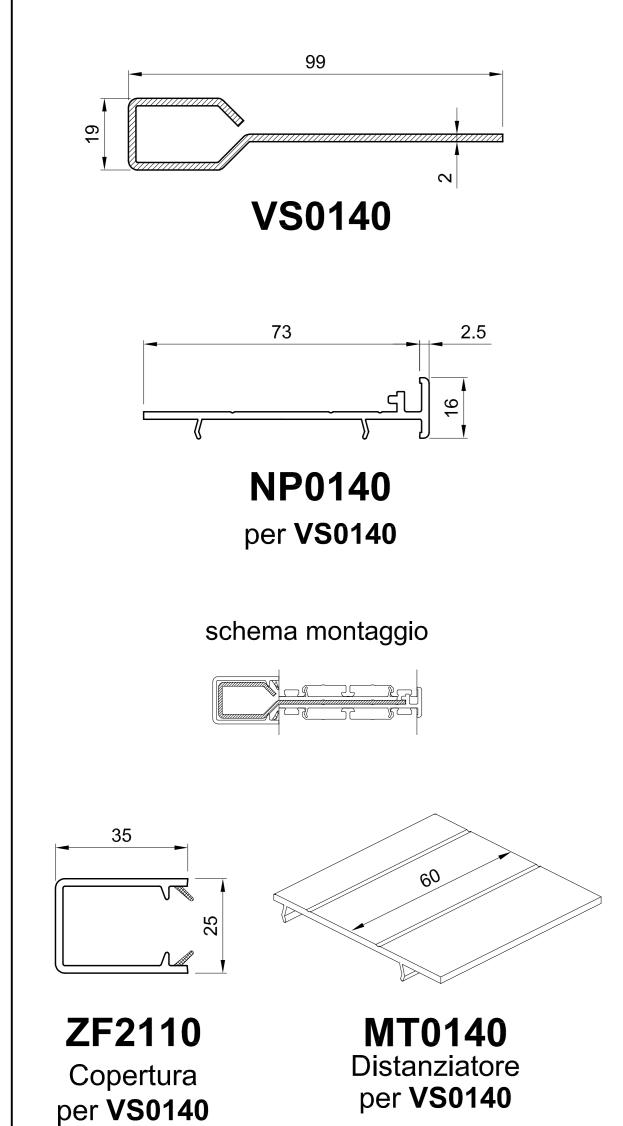


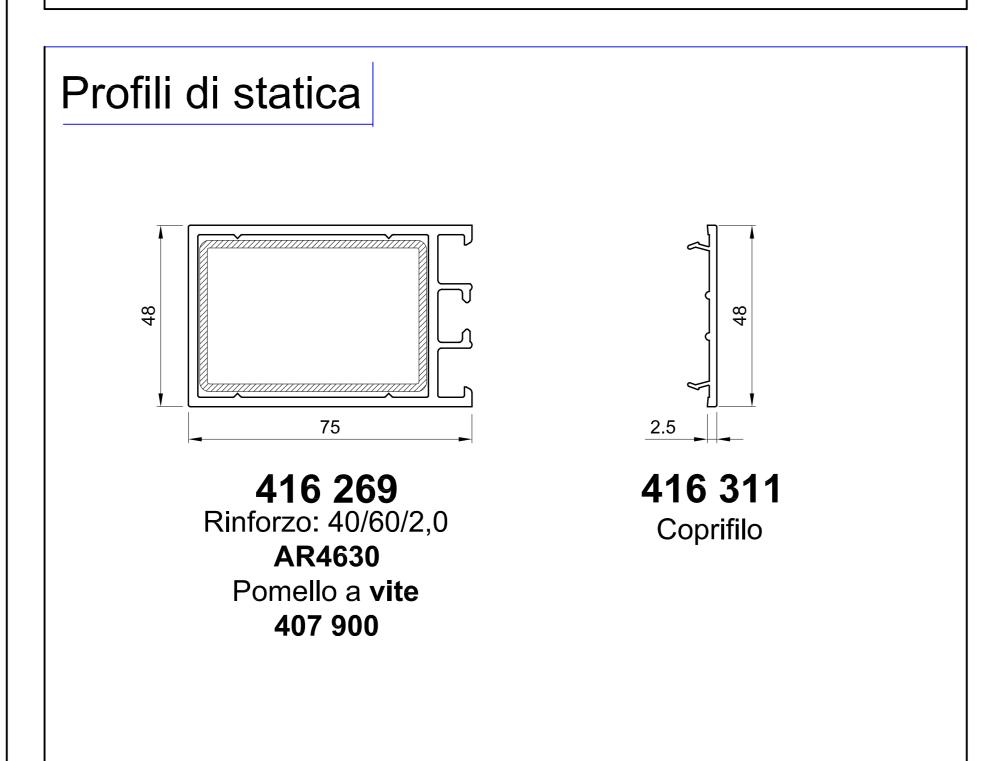


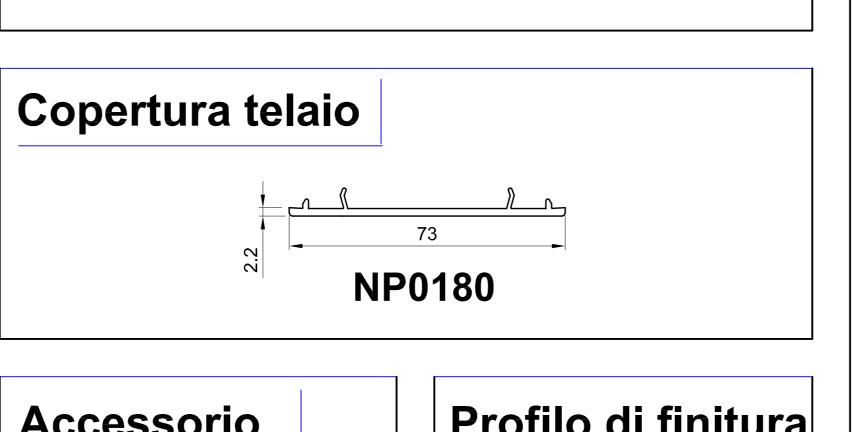












NP3280

Rinforzo: 16/26,6/42/8/1,5

possibile

VS1020

Rinforzo:16/26,6/42/8/1,25

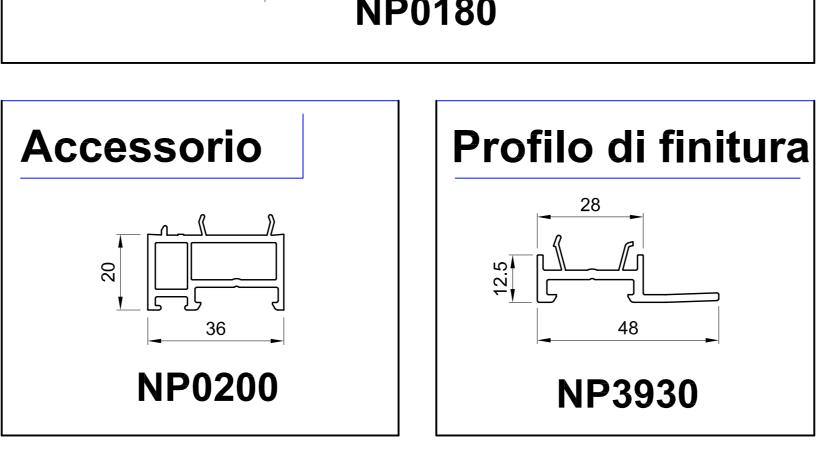
possibile

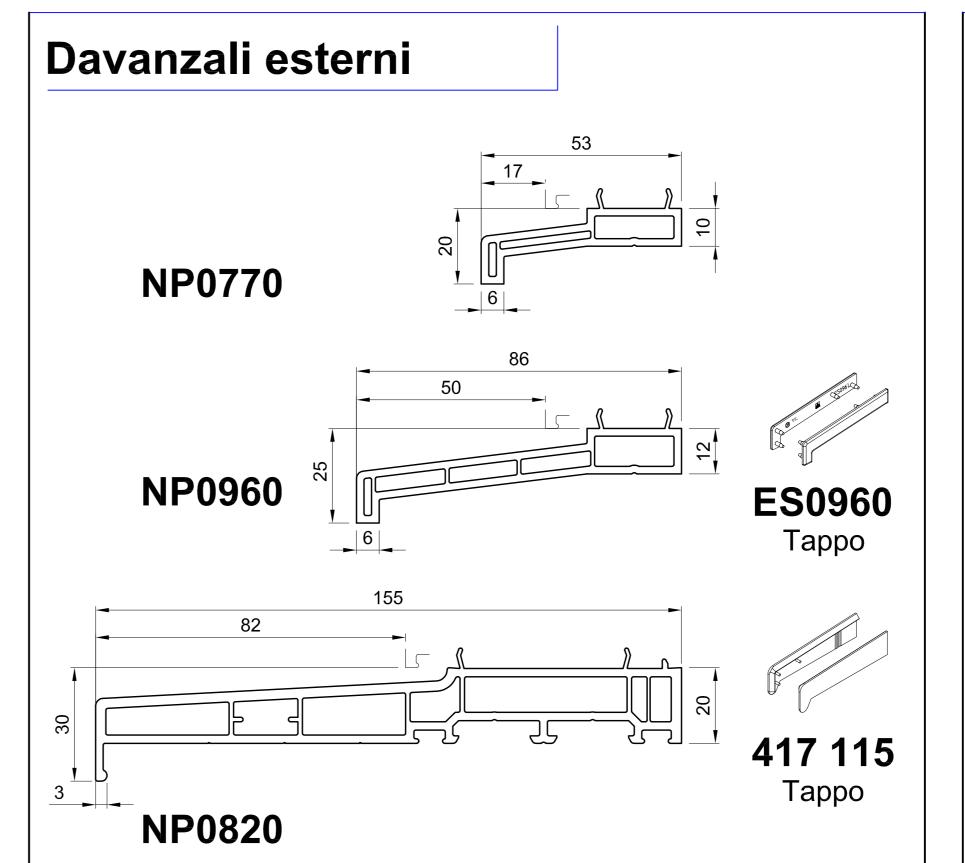
VS1120

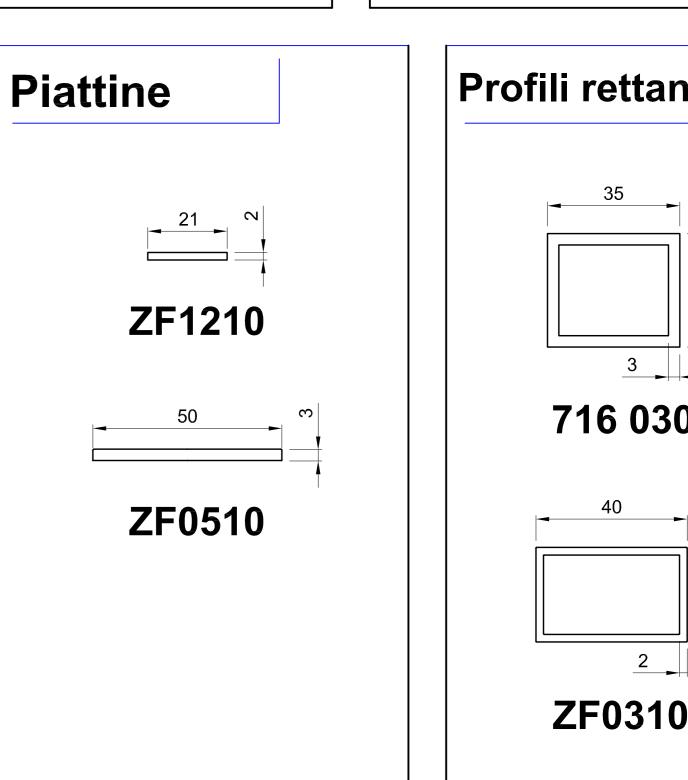
Rinforzo: 16/18,6/42/8/1,5

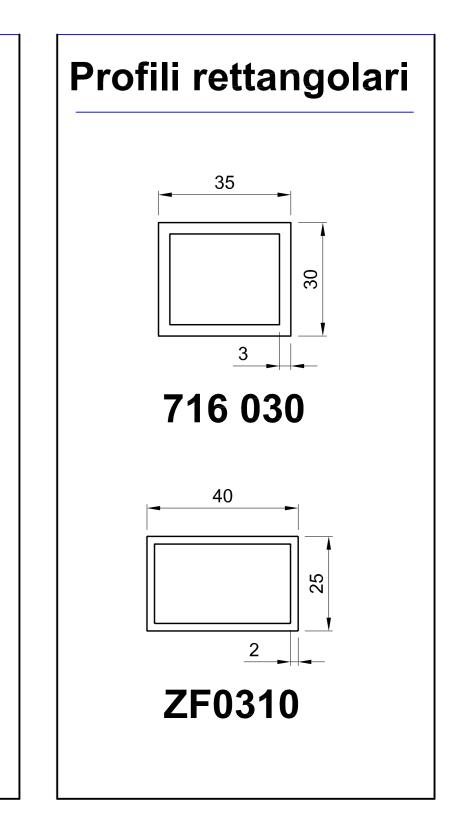
possibile

VS1010









Accessori 3

bE73 Zub3

Listelli d'aggancio

Profili d'aggancio

NP0230

per NP0220

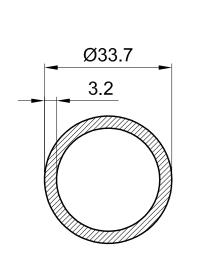
versione: 06/2017

9.8

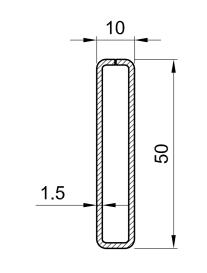
NP1940

per ZF1940



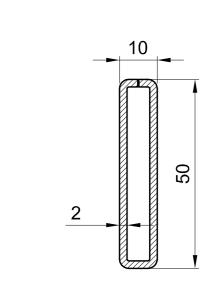


415 016 Ø33,7 / 3,2 mm $Ix = 3,60 \text{ cm}^4$ ly= 3,60 cm⁴ Impiego: NP0160

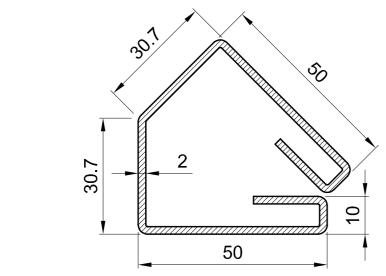


405 015-73 10 / 50 / 1,5 mm lx= 4,06 cm⁴ $Iy=0,27 \text{ cm}^4$ Impiego: HP3600,

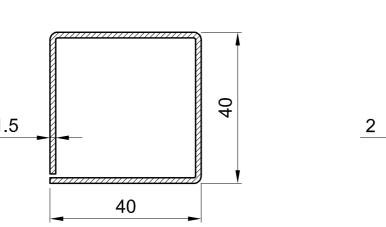
NP0120, RF3220



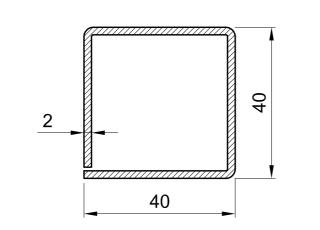
405 015-74 10 / 50 / 2,0 mm $Ix = 5,20 \text{ cm}^4$ ly= 0,32 cm⁴ Impiego: HP3600, NP0120, RF3220



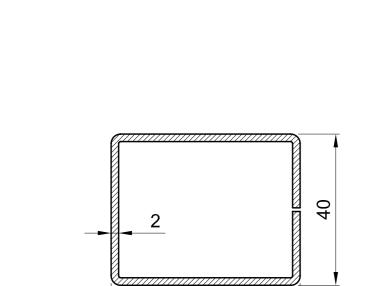
415 140 50 / 30,7 / 30,7 / 50 / 2,0 mm $Ix = 10,11 \text{ cm}^4$ ly= 12,78 cm⁴ Impiego: 416 240



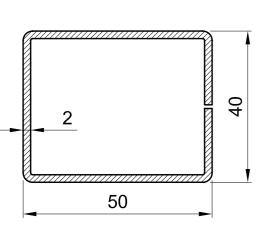
405 060-73 40 / 40 / 1,5 mm lx= 5,57 cm⁴ $Iy=5,57 \text{ cm}^4$ Impiego: HP1230, HP1540, HP1730, HP1830, NP0100



405 060-74 40 / 40 / 2,0 mm lx= 7,13 cm⁴ $Iy=7,12 \text{ cm}^4$ Impiego: HP1230, HP1540, HP1730, HP1830, NP0100



AC4710 19 / 40 / 50 / 40 / 11 / 1,5 mm $Ix = 9,30 \text{ cm}^4$ ly= 5,44 cm⁴ Impiego: HP1240



AR1920 50 / 40 / 2,0 mm $Ix = 8,58 \text{ cm}^4$ $Iy= 12,04 \text{ cm}^4$ Impiego: HP1240

1.5

16 / 26,6 / 42 / 8 / 1,5 mm

Impiego: HP1220, HP1700,

HP1720, HP1820, HP3600,

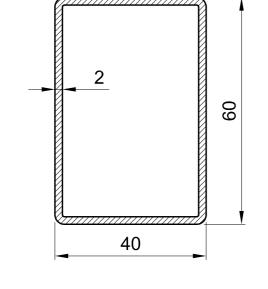
NP1550, NP3280, NP3300,

HO1221, HO1721, HO1821

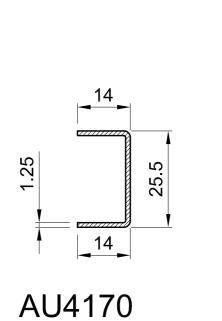
VS1020

 $Ix = 2,60 \text{ cm}^4$

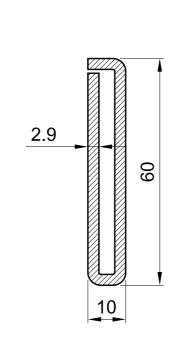
ly= 1,32 cm⁴

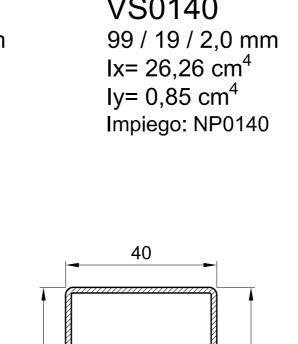


AR4630 40 / 60 / 2,0 mm $Ix= 18,86 \text{ cm}^4$ ly= 10,03 cm⁴ Impiego: HP1550, HP1560, 416 269

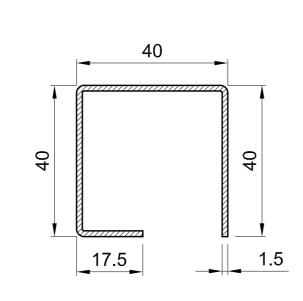


14 / 25,5 / 14 / 1,25 mm $Ix = 0,62 \text{ cm}^4$ ly= 0,11 cm⁴ Impiego: HP3510

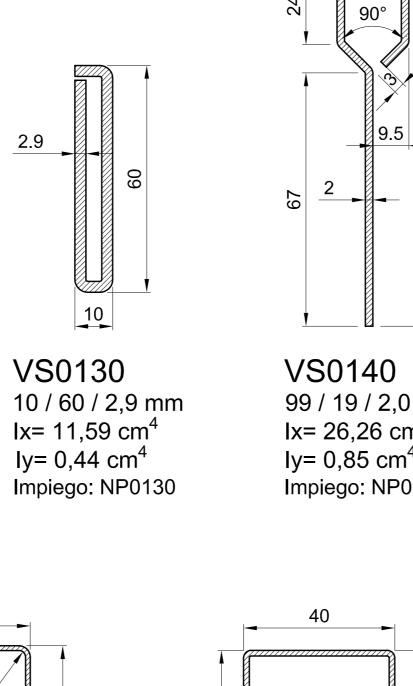


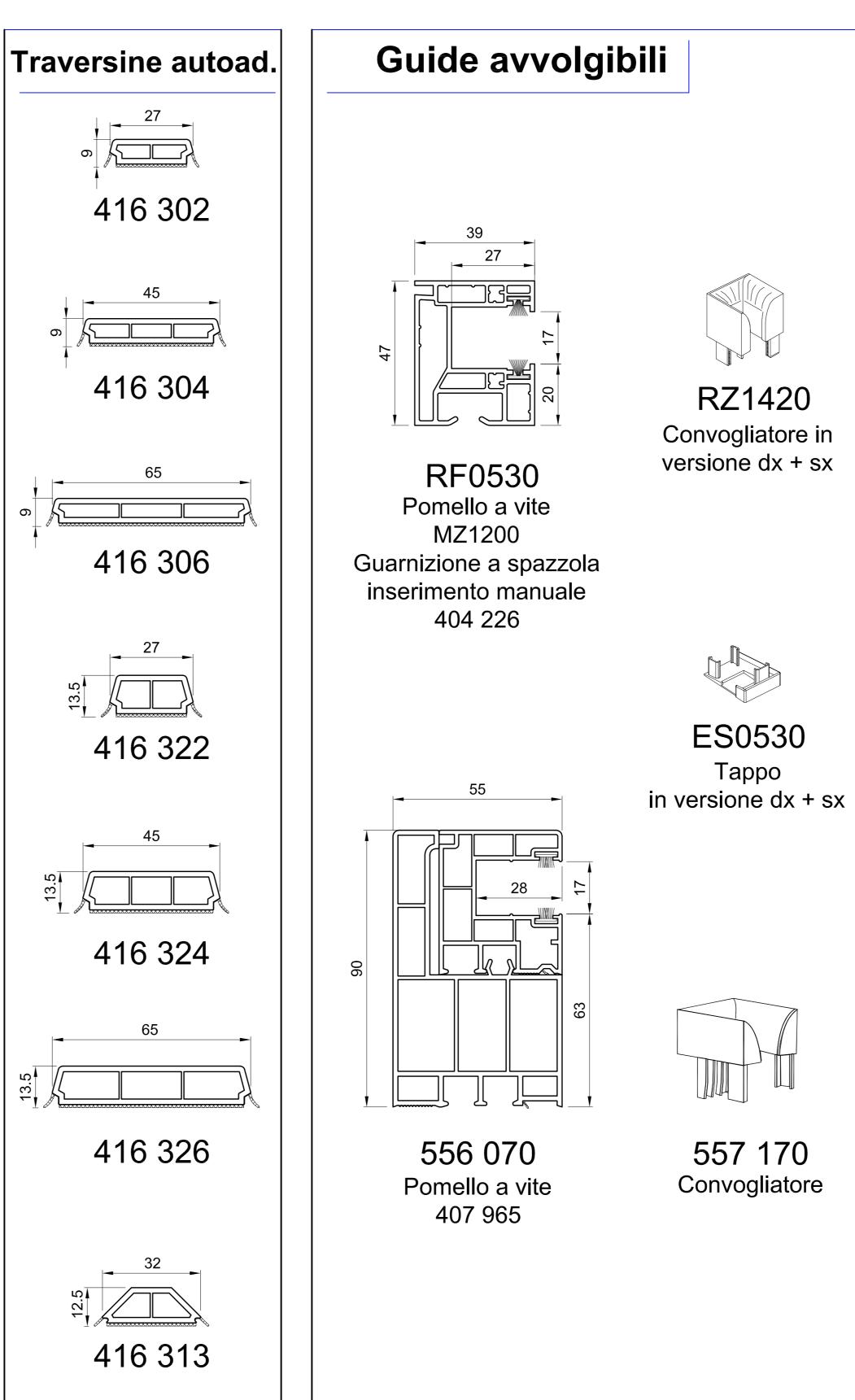


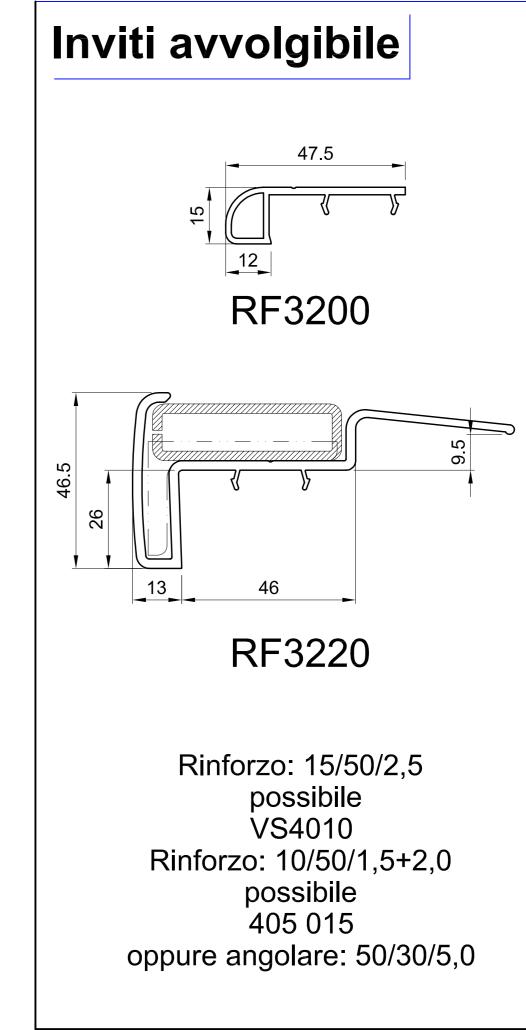
VS1120 16 / 26,6 / 42 / 8 / 1,25 mm Ix= 2,21 cm4 ly= 1,12 cm4 Impiego: HP1220, HP1700, HP1720, HP1820, HP3600, NP1550, NP3280, NP3300, HO1221, HO1721, HO1821

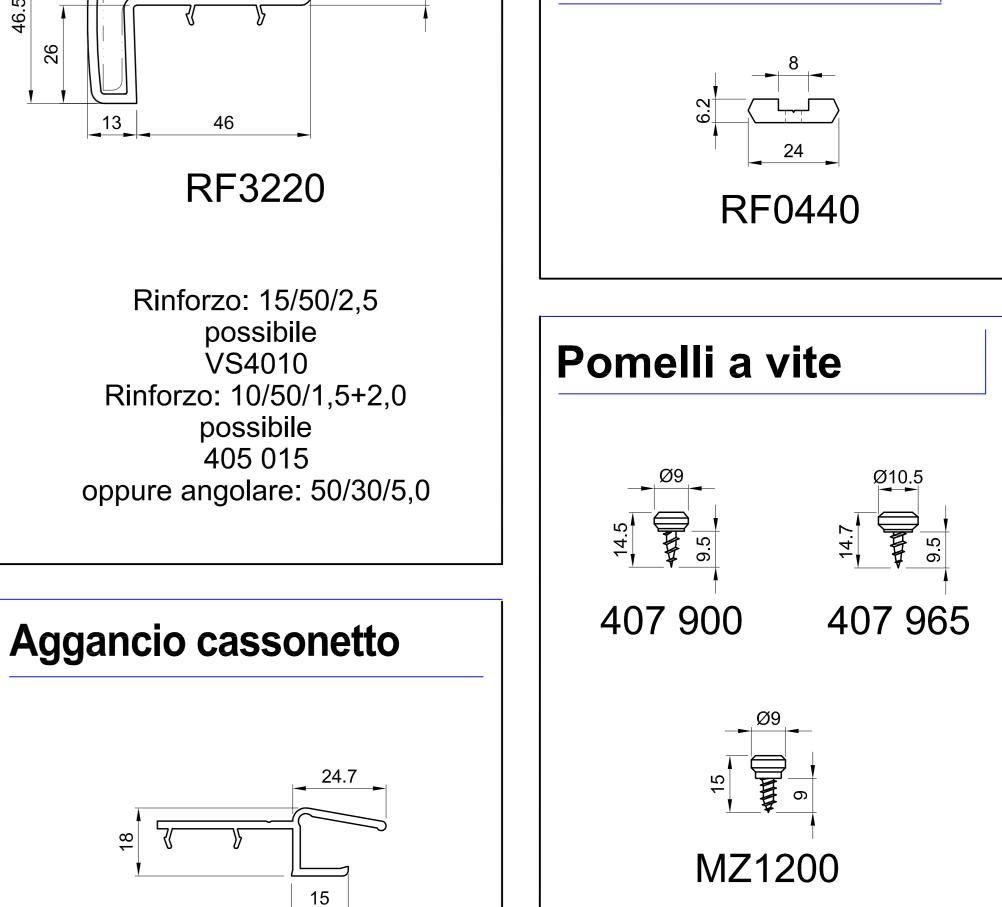


VS1230 17,5 / 40 / 40 / 40 / 1,5 mm $Ix = 4,27 \text{ cm}^4$ $Iy=5,27 \text{ cm}^4$ Impiego: HP1230

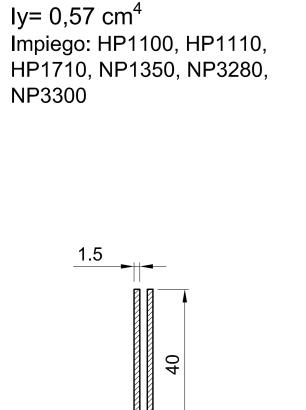








Pannello

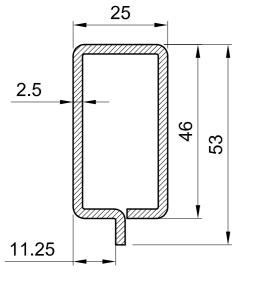


16 / 18,6 / 42 / 8 / 1,5 mm

VS1010

 $Ix= 2,35 cm^4$

VS3000 40 / 5 / 40 / 1,5 mm $Ix = 1,64 \text{ cm}^4$ $Iy=0.03 \text{ cm}^4$ Impiego: HP3000



VS3010 7 / 11,25 / 46 / 25 / 46 / 10,25 / 2,5 mm $Ix = 9,46 \text{ cm}^4$ ly= 3,15 cm⁴ Impiego: HP3010, HP3040

MT1550

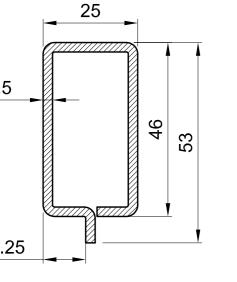
Tubolare, fresato

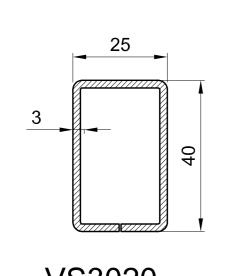
40 / 60 / 2,0 mm

Impiego: HP1550,

45 mm Cremonese

HP1560 / lato chiusura





51.3

15 / 50 / 40 / 51,3 / 1,5 mm

Impiego: HP1240, HP1540,

VS1030

 $Ix = 6,42 \text{ cm}^4$

 $Iy=7,23 \text{ cm}^4$

40

HP1730, HP1830

VS3020 25 / 40 / 3,0 mm $Ix= 3,12 cm^4$ $Iy=6,73 \text{ cm}^4$ Impiego: HP3020, HO3020

MT1600

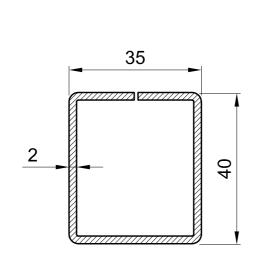
Tubolare, fresato

40 / 40 / 2,0 mm

35 mm Cremonese

HP1830 / lato chiusura

Impiego: HP1540, HP1730,



28.6

Impiego: HP1220, HP1700,

HP1720, HP1820, HO1221,

16 / 26,6 / 39,8 / 28,6 / 2,0 mm

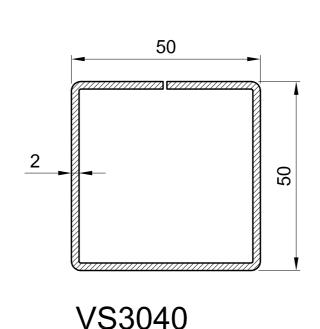
VS1050

Ix= 5,01 cm⁴

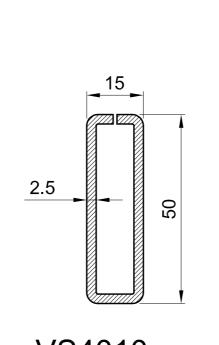
 $Iy= 2,05 cm^4$

HO1721, HO1821

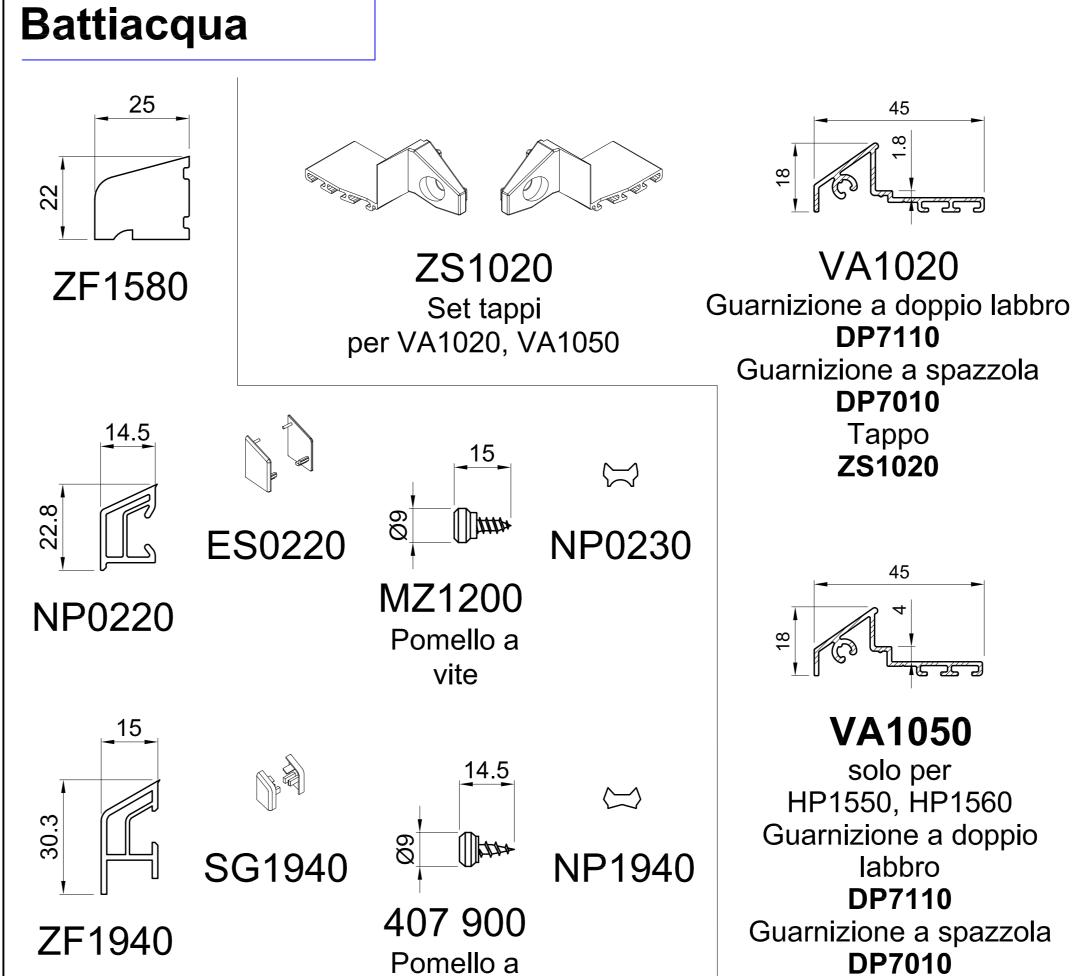
VS3030 35 / 40 / 2,0 mm $Ix = 6,35 \text{ cm}^4$ ly= 5,21 cm⁴ Impiego: HP3030



VS3040 50 / 50 / 2,0 mm $Ix = 14,34 \text{ cm}^4$ ly= 14,46 cm⁴ Impiego: HP3040

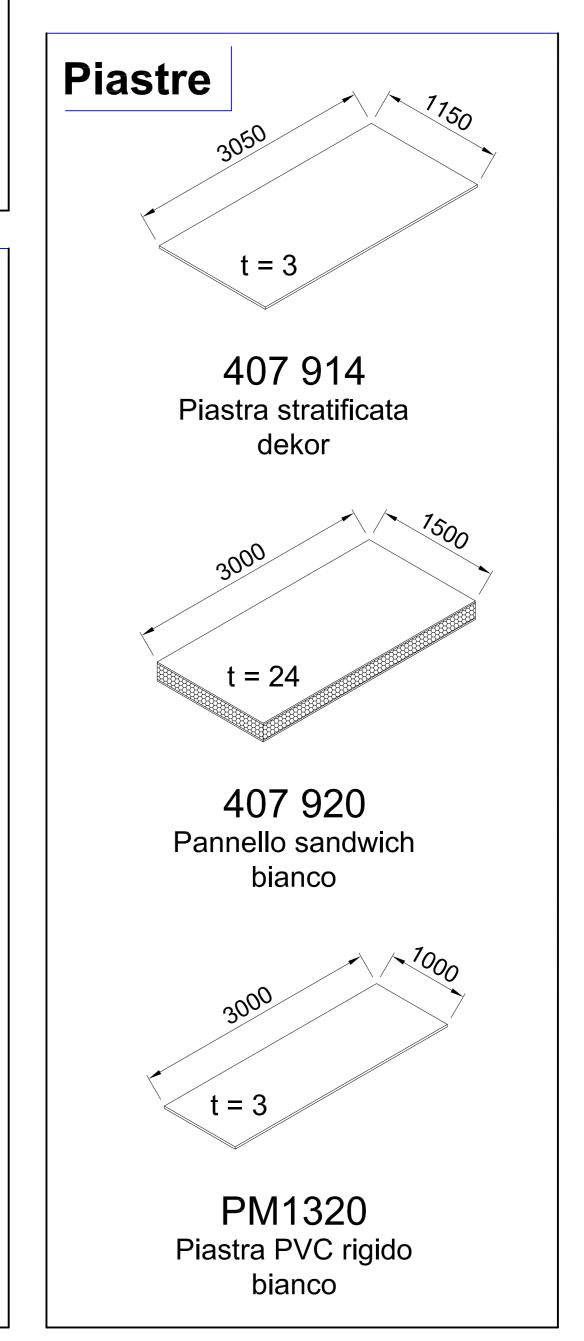


VS4010 15 / 50 / 2,5 mm $Ix= 7,44 \text{ cm}^4$ $Iy=0,99 \text{ cm}^4$ Impiego: RF3220

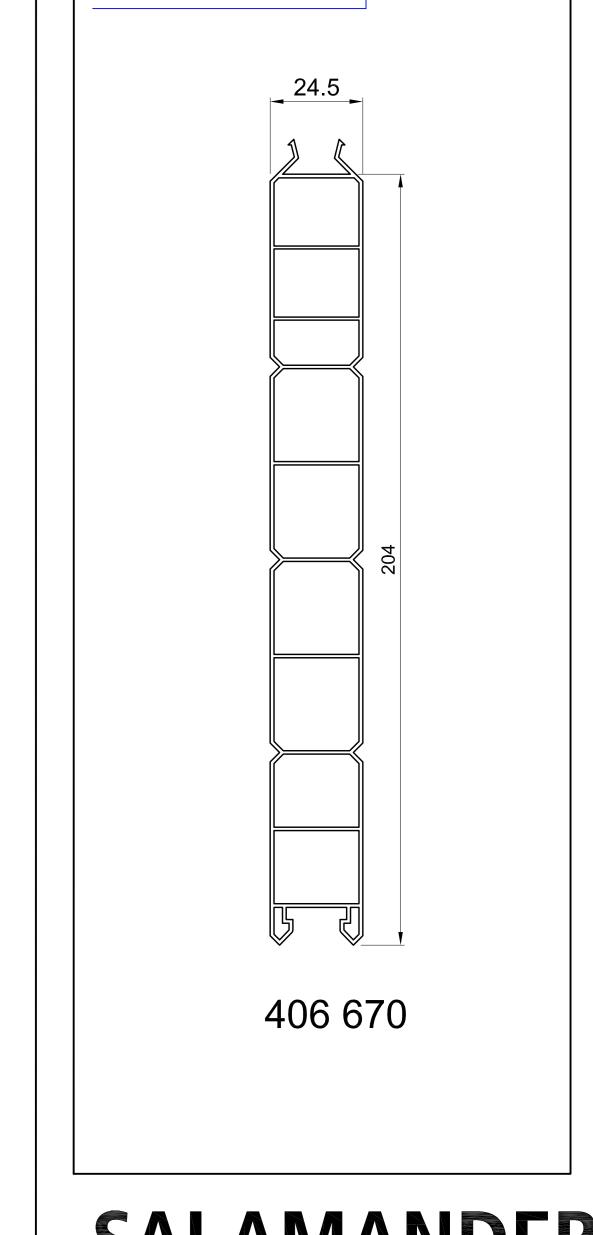


Tappo

ZS1020



RF3210





con riserva per modifiche tecniche

Tutti i profili: acciaio zincato