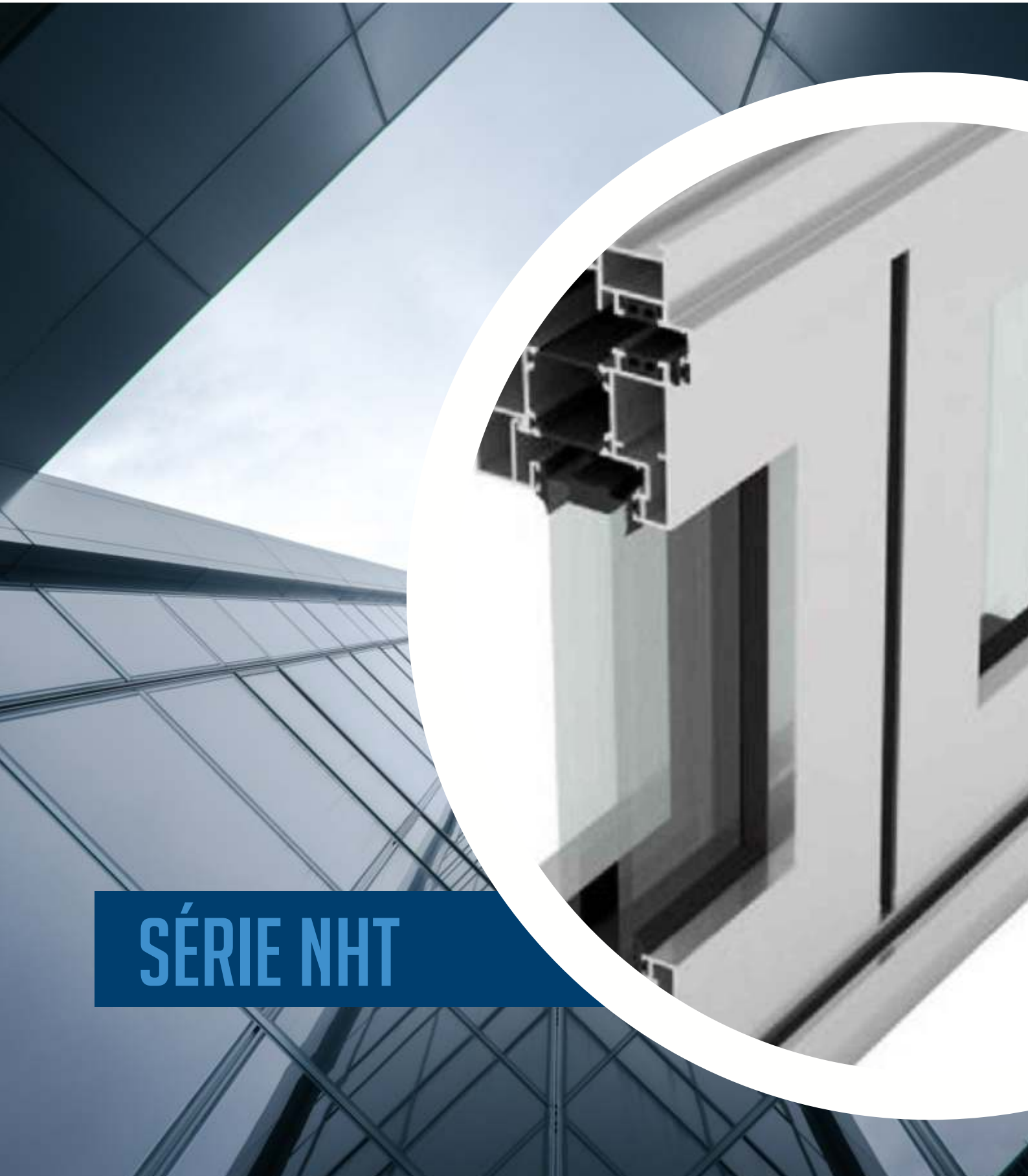
NORTALU®

www.nortalu.pt



SÉRIE NHT



SÉRIE NHT

SISTEMA HARMÓNIO RUTURA TÉRMICA

A série NHT permite aberturas de vãos de grandes dimensões sejam abertas na totalidade, com facilidade de manuseamento e com a abertura em vários paineis de vidro de forma a otimizar o espaço. o sistema NHT tem grande capacidade térmica e acústica, respeitando também todas as exigências da arquitetura moderna.

Soluções Construtivas:

- Janelas e Portas

Capacidade de Vidro:

- Vidro Duplo 24 a 32mm

Vedantes:

- Material em EPDM ou PVC em conformidade com a norma aplicável.

Acessórios:

- Materiais em alumínio, zamac, aço inox e nylon em conformidade com a norma aplicável.

Resultados do Ensaio Tipo Inicial:

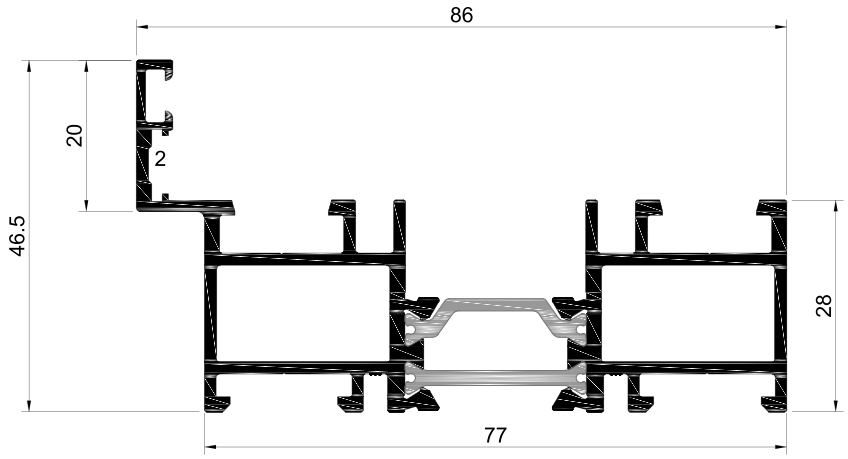
Tipo Ensaio	Resultados
Permeabilidade ao Ar	4
Estanquidade à Água	7A
Resistência à Pressão do Vento	B1
Durabilidade Mecânica	-
Coeficiente de Transmissão Térmica	-
Desepenho Acústico	40

Porta com perfis alumínio do Sistema NHT janela harmónio 4 folhas.

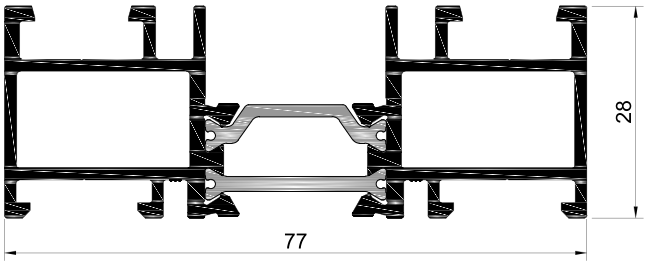
Dimensão da Janela:

4590*3590m.

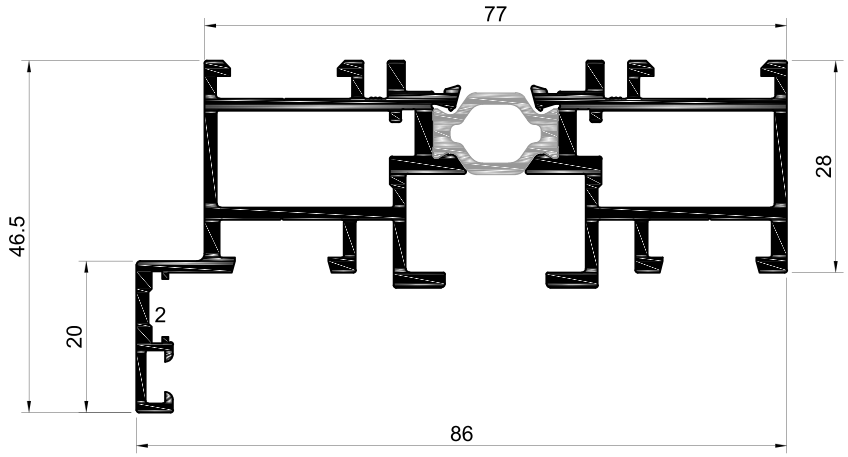
NHT.01 *Aro fixo*



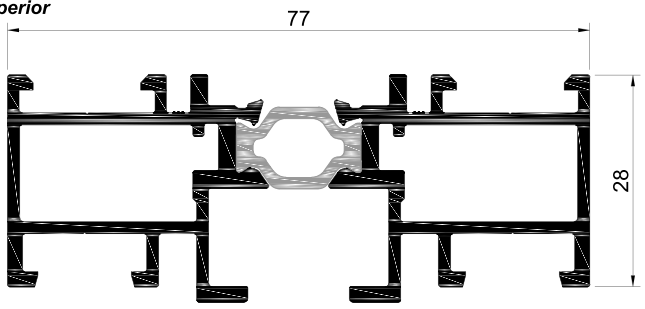
NHT.02 *Aro fixo*



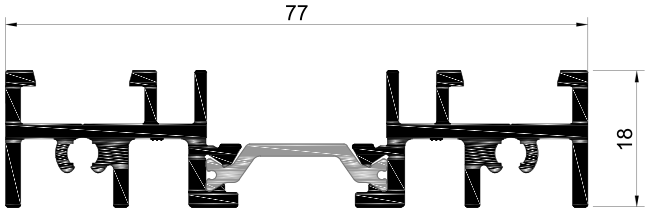
NHT.21 *Aro fixo superior*



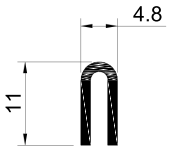
NHT.22 *Aro fixo superior*



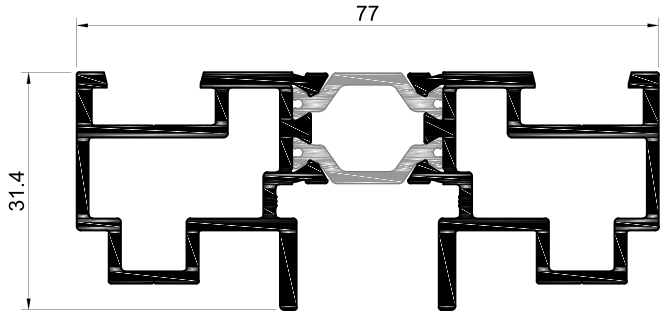
NHT.49 *Soleira*



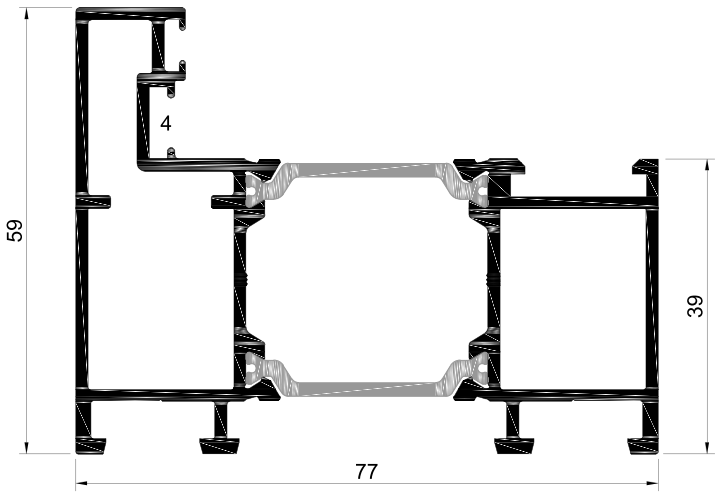
NHT.801 *Guia inox*



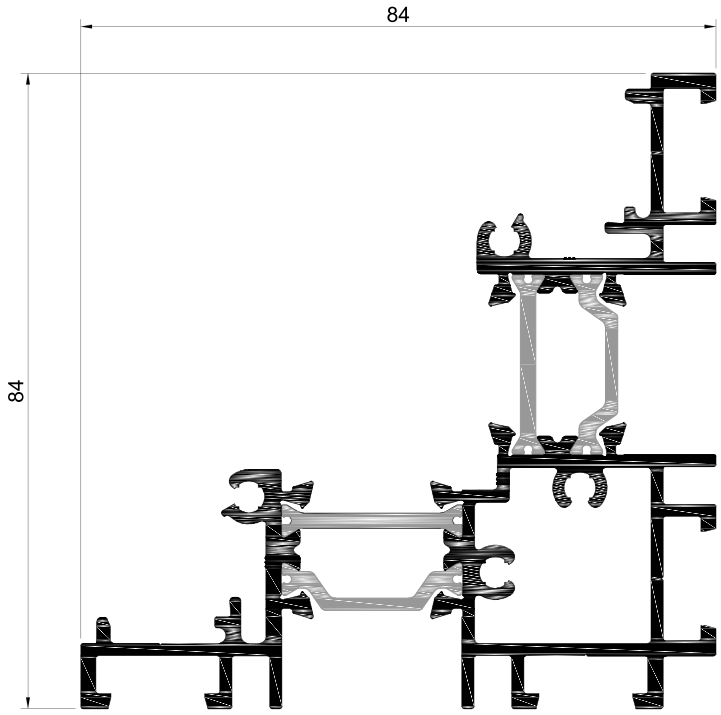
NHT.82 *Perfil lateral de ajuste*



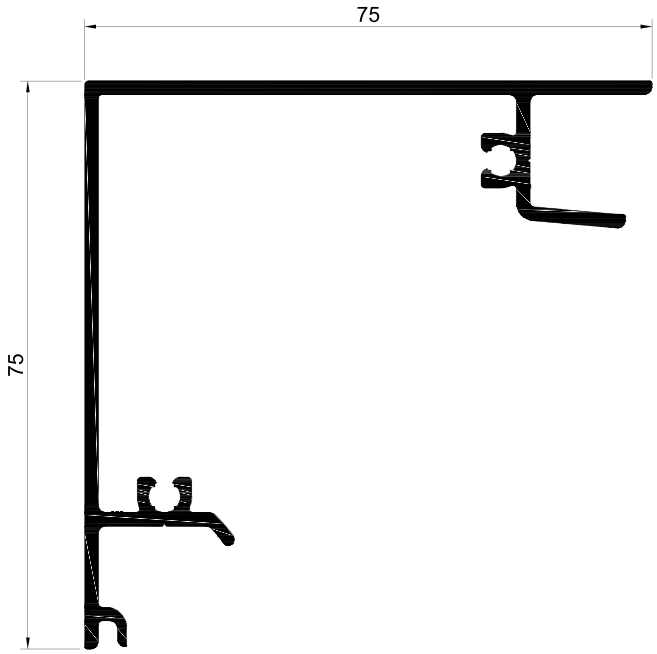
NHT.11 *Aro móvel*



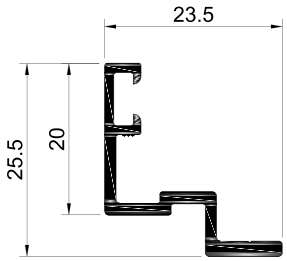
NHT.55 *Perfil de canto*



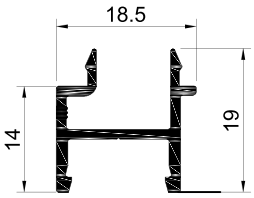
NHT.56 *Perfil de canto*



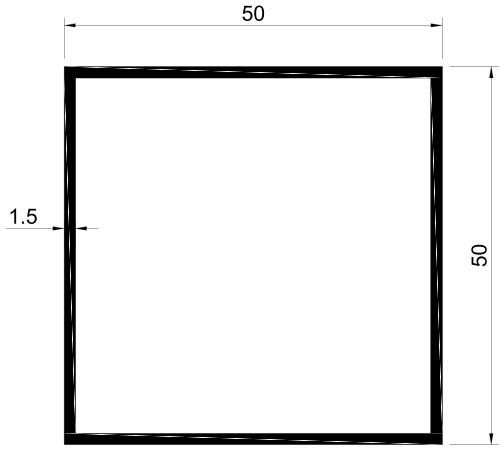
NHT.06 *Perfil batente*



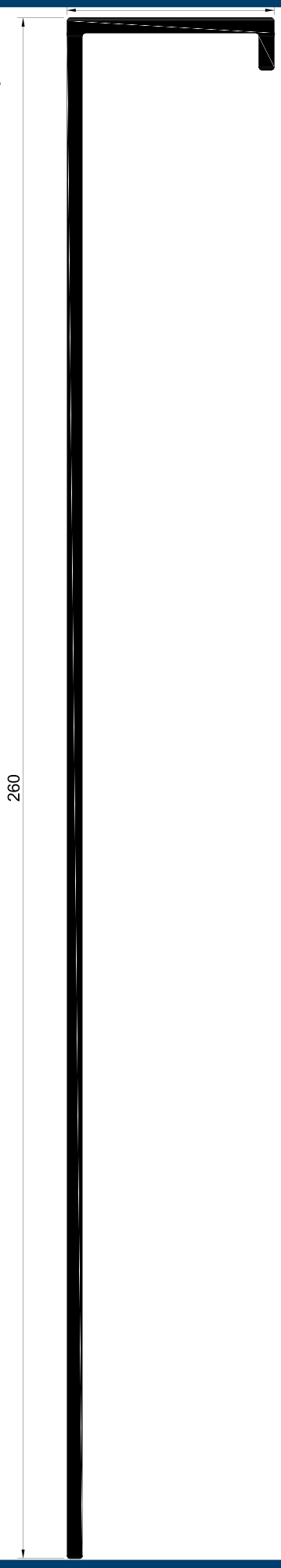
NHT.25 *Perfil complementar móvel*



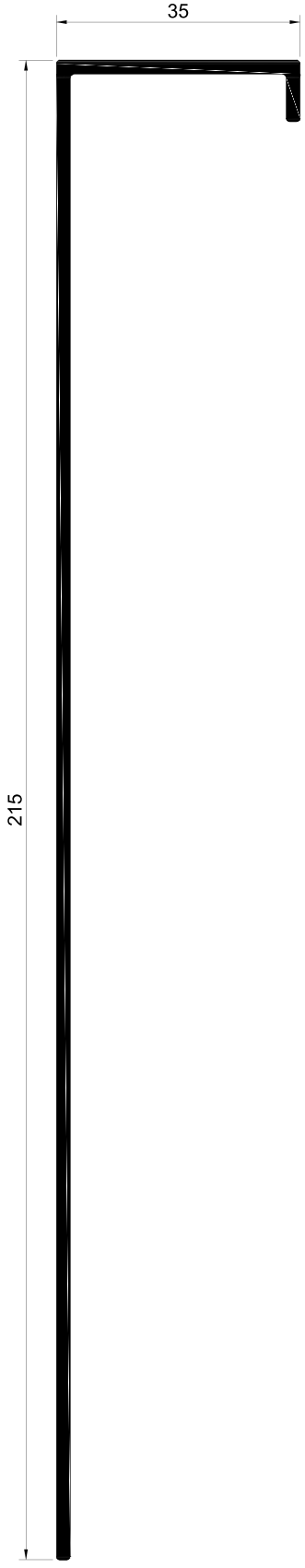
Q.07 *Tubo 50x50*

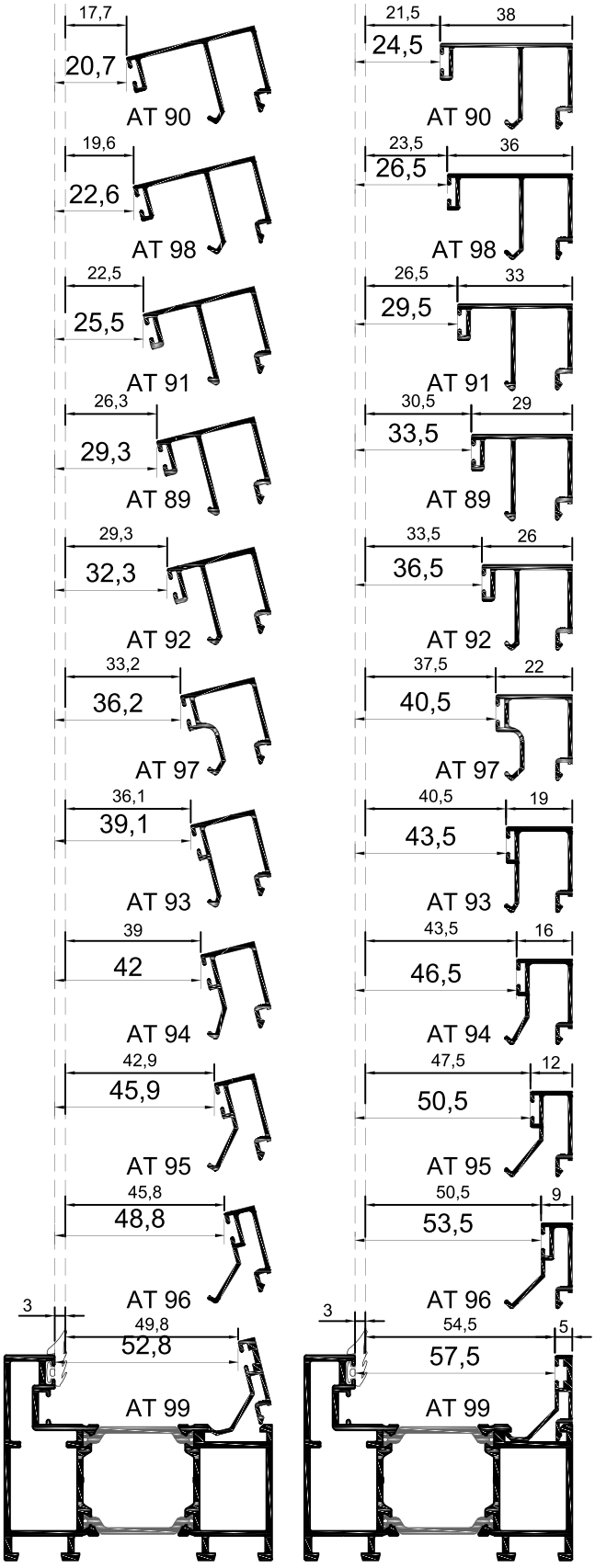


AQ.211 *Perfil remate*



AQ.212 *Perfil remate*



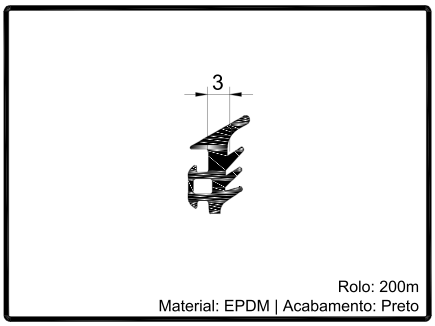

17,7
20,7
AT 90
19,6
22,6
AT 98
22,5
25,5
AT 91
26,3
29,3
AT 89
29,3
32,3
AT 92
33,2
36,2
AT 97
36,1
39,1
AT 93
39
42
AT 94
42,9
45,9
AT 95
45,8
48,8
AT 96
3
49,8
52,8
AT 99
21,5
38
24,5
AT 90
23,5
36
26,5
AT 98
26,5
33
29,5
AT 91
30,5
29
33,5
AT 89
33,5
26
36,5
AT 92
37,5
22
40,5
AT 97
40,5
19
43,5
AT 93
43,5
16
46,5
AT 94
47,5
12
50,5
AT 95
50,5
9
53,5
AT 96
3
54,5
5
57,5
AT 99



NORTALU®

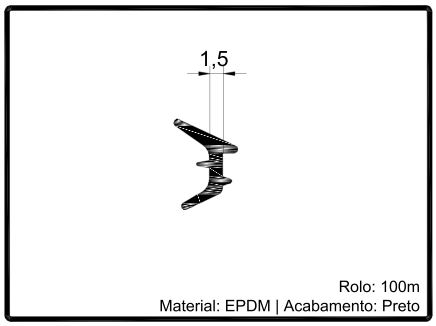
ACESSÓRIOS

VEDANTES



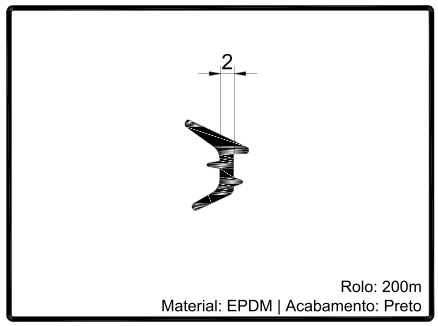
Rolo: 200m
Material: EPDM | Acabamento: Preto

208350 JUNTA DE VEDAÇÃO EXTERIOR 2003



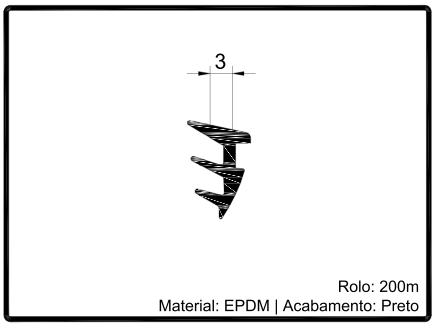
Rolo: 100m
Material: EPDM | Acabamento: Preto

208223 JUNTA DE CUNHA 1031



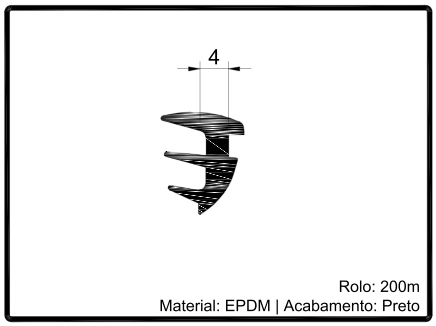
Rolo: 200m
Material: EPDM | Acabamento: Preto

208191 JUNTA DE CUNHA 2042



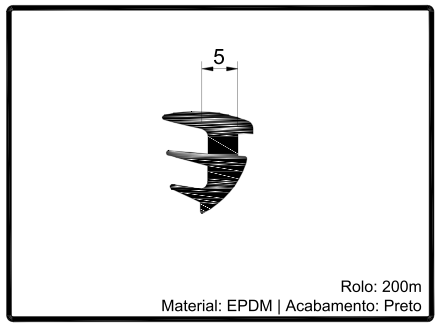
Rolo: 200m
Material: EPDM | Acabamento: Preto

208199 JUNTA DE CUNHA 2073



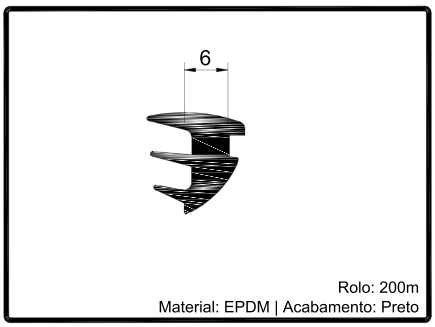
Rolo: 200m
Material: EPDM | Acabamento: Preto

208195 JUNTA DE CUNHA 2034



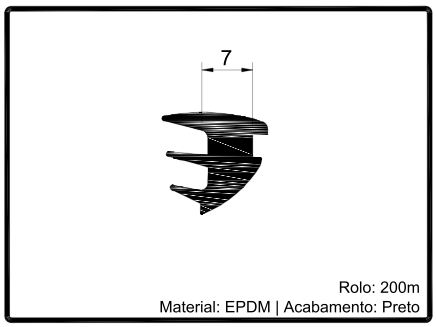
Rolo: 200m
Material: EPDM | Acabamento: Preto

208196 JUNTA DE CUNHA 2035



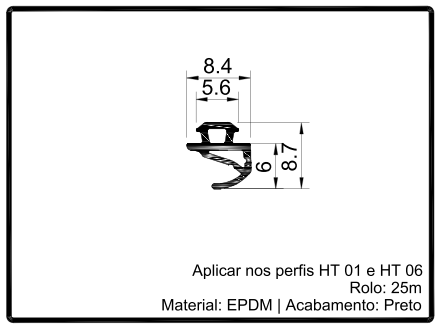
Rolo: 200m
Material: EPDM | Acabamento: Preto

208215 JUNTA DE CUNHA 2036



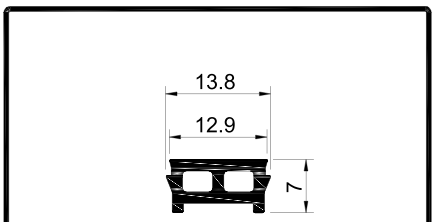
Rolo: 200m
Material: EPDM | Acabamento: Preto

208904 JUNTA DE CUNHA 2037



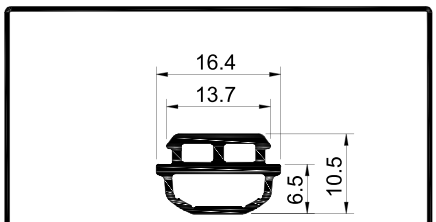
Aplicar nos perfis HT 01 e HT 06
Rolo: 25m
Material: EPDM | Acabamento: Preto

208094 JUNTA VD 2128



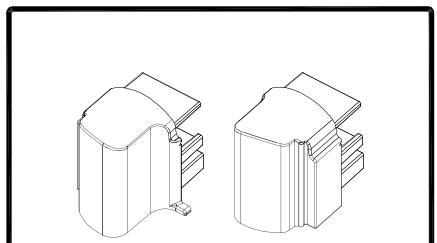
Aplicar nos perfis HT 11 e HT 25
Rolo: 50m
Material: EPDM | Acabamento: Preto

208092 JUNTA VD 2126



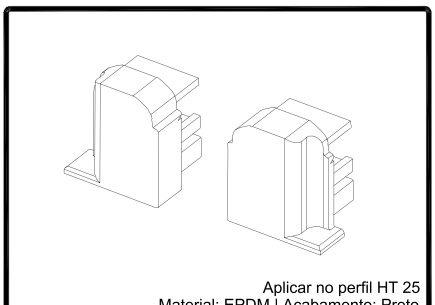
Aplicar nos perfis HT 11 e HT 25
Rolo: 50m
Material: EPDM | Acabamento: Preto

208093 JUNTA VD 2127



Aplicar no perfil HT 25
Material: EPDM | Acabamento: Preto

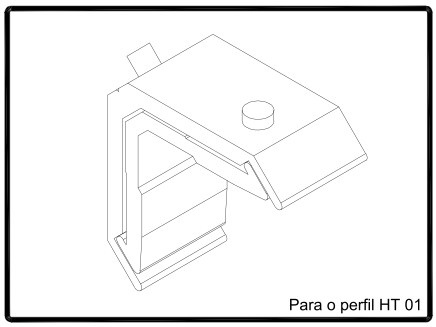
212027 CONJ. TOPOS P/ VD 2127



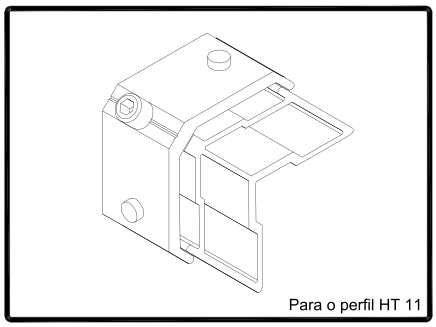
Aplicar no perfil HT 25
Material: EPDM | Acabamento: Preto

212045 CONJ. TOPOS P/ VD 2126

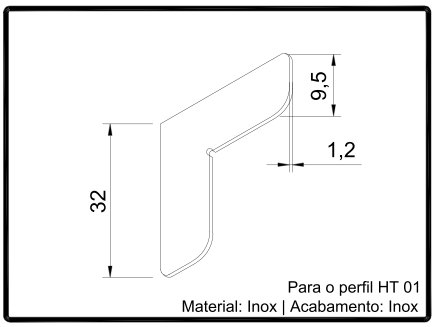
ACESSÓRIOS PARA OS AROS



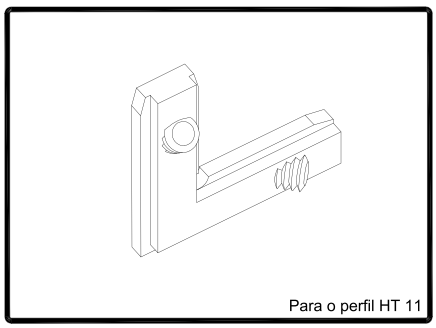
204016 ESQUADRO HT Nº1



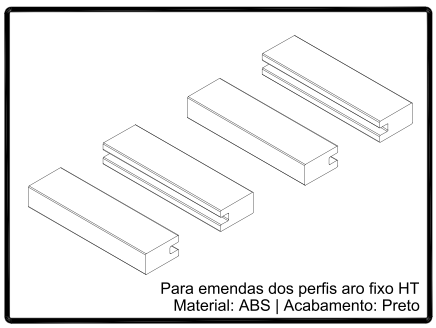
204017 ESQUADRO HT Nº2



213017 CANTO ALINHAMENTO OS

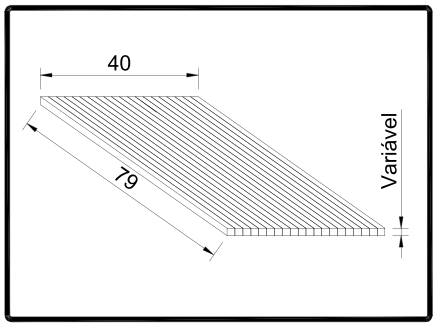


204131 ESQUADRO DE ALINH. C/ APERTO



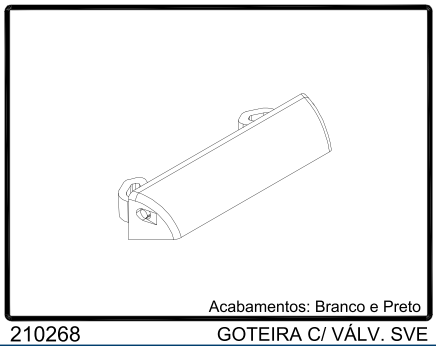
212963 CONJ. UNIÃO RETA HT

ACESSÓRIOS PARA VIDRO

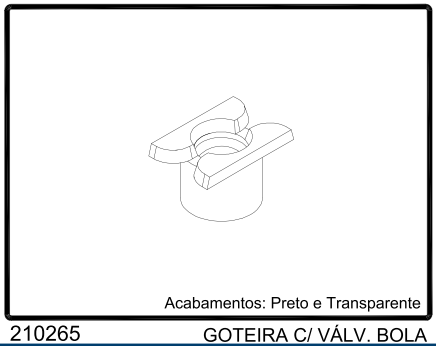


218113 CALÇO PARA VIDRO 79x40x2
218109 CALÇO PARA VIDRO 79x40x3
218111 CALÇO PARA VIDRO 79x40x4
218112 CALÇO PARA VIDRO 79x40x5

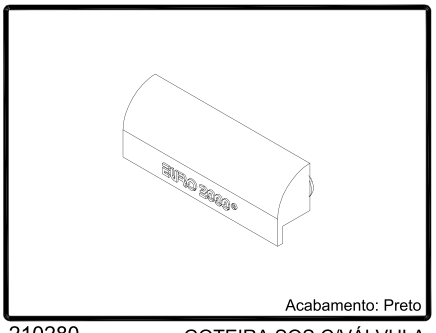
GOTEIRAS



210268 GOTEIRA C/ VÁLV. SVE

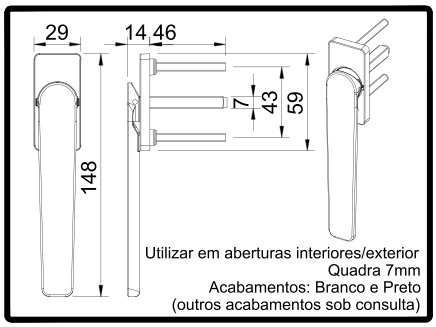


210265 GOTEIRA C/ VÁLV. BOLA

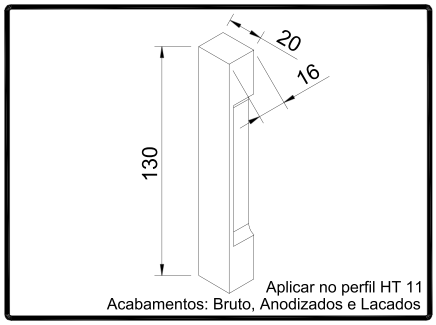


210280 GOTEIRA SOS C/VÁLVULA

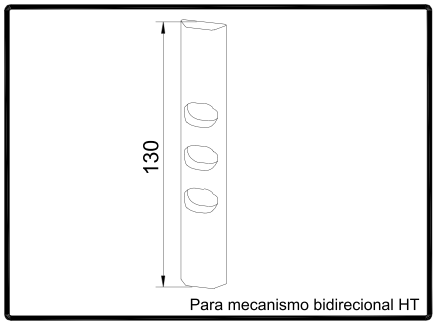
SISTEMAS DE FECHO



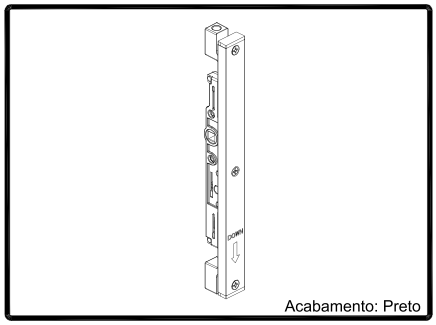
291012 MANÍPULO ARTIC. 3106.30 HT



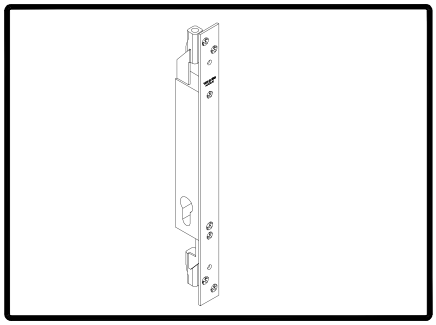
200056 PUXADOR FIXO SLIM



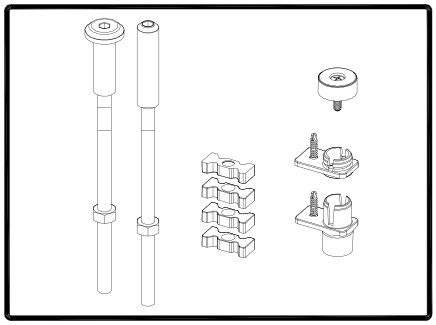
218145 CALÇO P/ MECANISMO BIDIR. HT



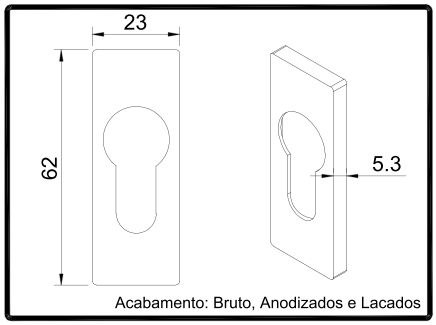
228002 MECANISMO BIDIR. HT LAC 905



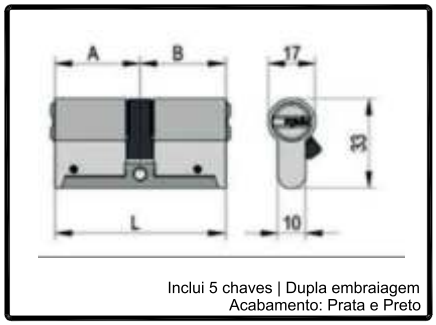
228003 MECANISMO BIDIR. C/ CHAVE HT



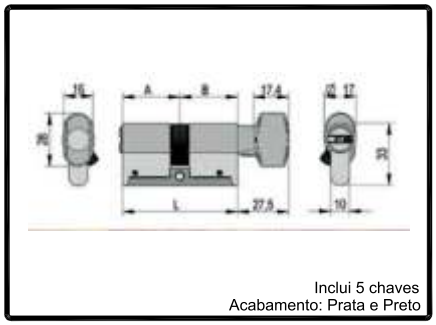
212081 CONJ. VARÕES 2M+TERM. P/ MEC. HT



220196 ESPELHO ALUMÍNIO 23MM P/ SEGREDO

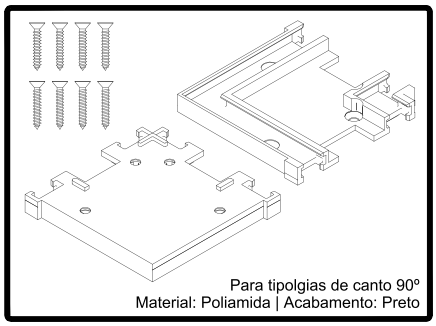


207407 CILINDRO ALTA SEGURANÇA 45/45

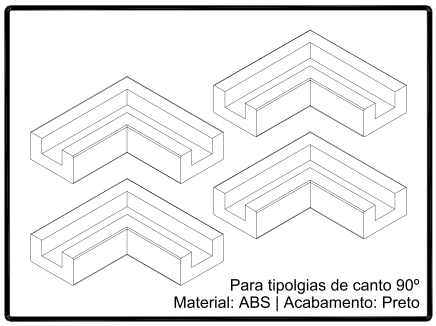


207409 CILINDRO ALTA SEGURANÇA 45B/45

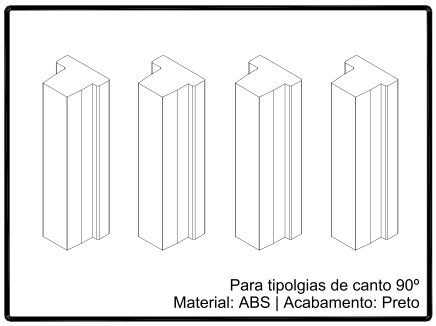
TIPOLOGIAS DE CANTO



212165 CONJ. TOPOS CANTO 90º HT

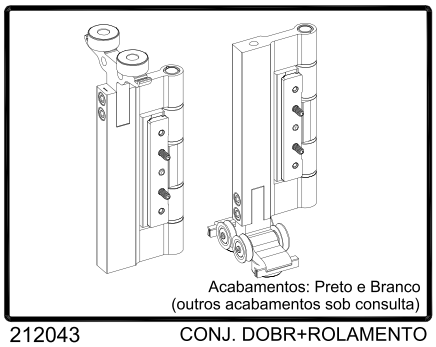


212167 CONJ. UNIÃO CANTO 90º HT

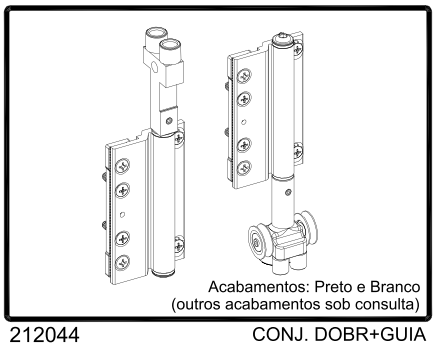


212169 CONJ. UNIÃO VERTICAL HT

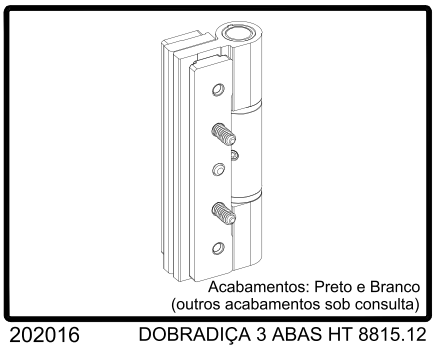
ACESSÓRIOS HARMÓNIO



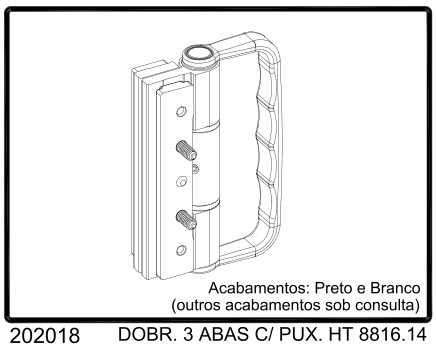
212043 CONJ. DOBR+ROLAMENTO INF/SUP HT 8810.1



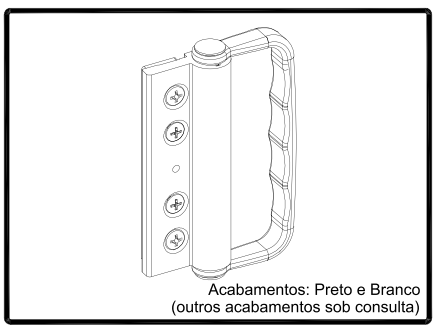
212044 CONJ. DOBR+GUIA INF/SUP HT 8811.1



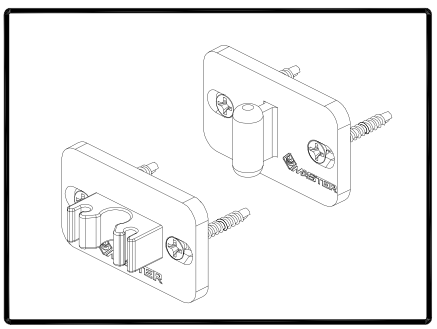
202016 DOBRADIÇA 3 ABAS HT 8815.12



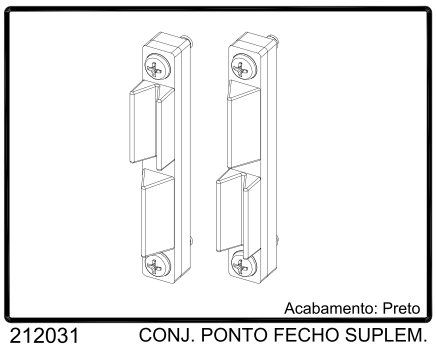
202018 DOBR. 3 ABAS C/ PUX. HT 8816.14



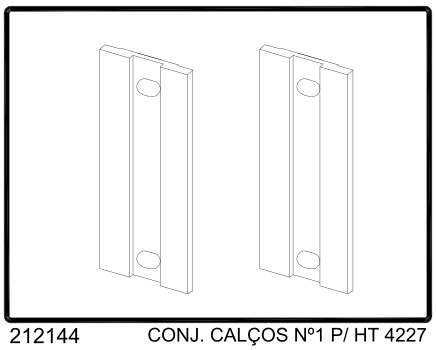
202017 DOBRADIÇA C/ PUX. HT 8816.12



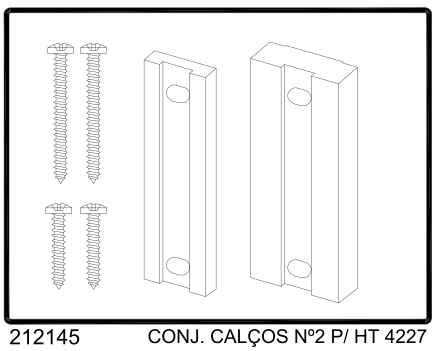
212033 CONJ. BLOQUEIO HT



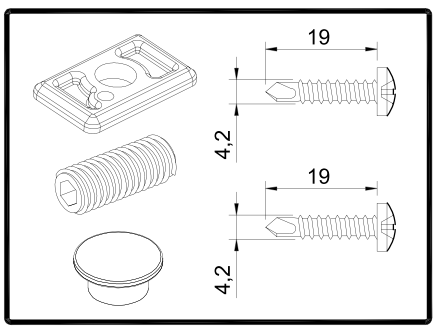
212031 CONJ. PONTO FECHO SUPLEM. HT 4227



212144 CONJ. CALÇOS Nº1 P/ HT 4227

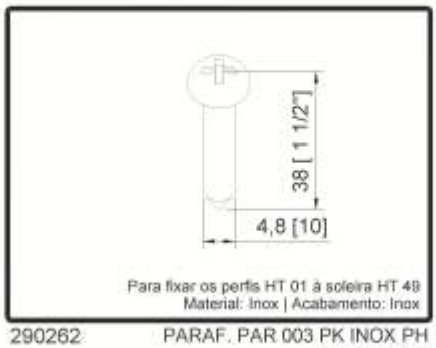


212145 CONJ. CALÇOS Nº2 P/ HT 4227

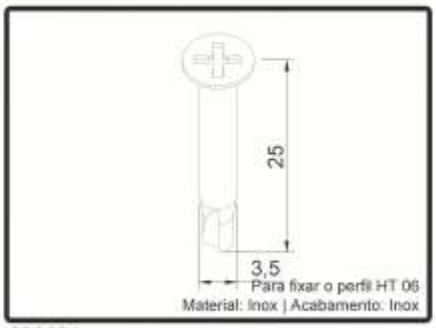


212964 CONJ. AJUSTE HT 82

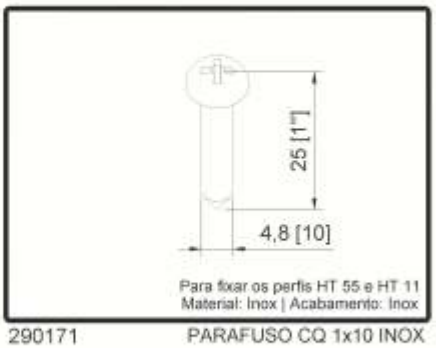
DIVERSOS



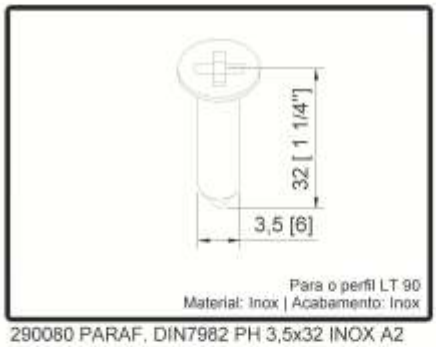
290262 PARAF. PAR 003 PK INOX PH 1 1/2x10 CQ



290024 PARAF. DIN7504-P 3,5X25 INOX A2



290171 PARAFUSO CQ 1x10 INOX



290080 PARAF. DIN7982 PH 3,5x32 INOX A2



211606 GABARITO CORTE VD 2126/2127 HT



224205 NIVELADOR PEQUENO 600.01/8

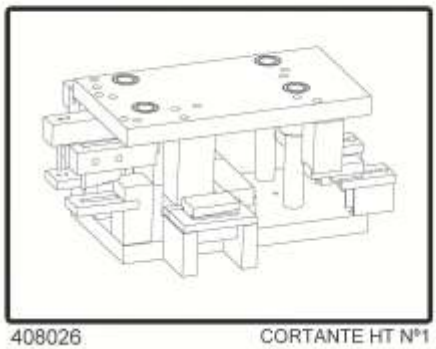


208019 SELA JUNTAS 150gr. (Cinza)



208704 PRODUTO LIMPEZA DE ALUMÍNIO (1L) Transparente

FERRAMENTAS



408026 CORTANTE HT Nº1

1 2 3

DESIGNAÇÃO	CÓDIGO	TIPOLOGIAS DE ABERTURA INTERIOR (SEM CANTOS)																															
		220		321		330		422		431		440		532		541		550		633		642		651		660		743		752		761		770	
		4a	4b	4a/8a	4a/8b	4a/8a	4a/8b	4a/4a	4a/4b	4a/4a	4a/4b	4a	4a/4b	4a/8a	4a/8b	4a/8a	4a/18b	4a	4a/14b	4a	4a/4b	4a	4a/4b	4a	4a/4b	4a	4a/4b	4a/8a	4a/8b	4a/8a	4a/8b	4a/8a	4a/8b	4a/8a	4a/8b
MANÍPULO ARTIC. 3106.30 HT	291012	1	-	2	1	2	1	2	1	3	2	2	1	3	2	3	2	3	2	4	3	3	2	4	2	3	2	4	3	4	3	4	3	4	3
MECANISMO BIDIR. HT	228002	1	-	2	1	2	1	2	1	3	2	2	1	3	2	3	2	3	2	4	3	3	2	4	2	3	2	4	3	4	3	4	3	4	3
CALÇO P/ MECAMISMO BIDIR. HT	218145	1	-	2	1	2	1	2	1	3	2	2	1	3	2	3	2	3	2	4	3	3	2	4	2	3	2	4	3	4	3	4	3	4	3
MECANISMO BIDIR. C/ CHAVE HT	228003	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1
PUXADOR FIXO SLIM	200056	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1
CILINDRO ALTA SEG. C/ BOTÃO 45B/45 CYLINDER CYLINDRE	207409	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1
ESPELHO ALUMÍNIO 23MM P/ SEGREDO	220196	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2
CONJ. VARÕES 2M+TERM. P/ MEC. HT	212081	1		2		2		2		3		2		3		3		3		4		3		4		3		4		4		4		4	
CONJ. P/ AJUSTE HT 82	212964	6 (a) 8 (b) 12 (c)		6 (a) 8 (b) 10 (c)		6 (a) 8 (b) 10 (c)		6 (a) 8 (b) 10 (c)		6 (a) 8 (b) 10 (c)		6 (a) 8 (b) 10 (c)		6 (a) 8 (b) 10 (c)		6 (a) 8 (b) 10 (c)		6 (a) 8 (b) 10 (c)		6 (a) 8 (b) 10 (c)		6 (a) 8 (b) 10 (c)		6 (a) 8 (b) 10 (c)		6 (a) 8 (b) 10 (c)		6 (a) 8 (b) 10 (c)		6 (a) 8 (b) 10 (c)		6 (a) 8 (b) 10 (c)	
DOBRADIÇA C/ PUX. HT 8816.12	202017	1		2		2		2		2		2		3		3		3		3		3		3		4		4		4		4		4	
DOBR. 3 ABAS HT 8815.12 *	202016	6 (a) 10 (b) 14 (c)		9 (a) 15 (b) 21 (c)		7 (a) 13 (b) 16 (c)		12 (a) 20 (b) 28 (c)		10 (a) 18 (b) 26 (c)		10 (a) 18 (b) 26 (c)		13 (a) 23 (b) 33 (c)		13 (a) 23 (b) 33 (c)		11 (a) 21 (b) 31 (c)		14 (a) 26 (b) 38 (c)		16 (a) 28 (b) 40 (c)		14 (a) 26 (b) 38 (c)		14 (a) 26 (b) 38 (c)		17 (a) 31 (b) 45 (c)		17 (a) 31 (b) 45 (c)		17 (a) 31 (b) 45 (c)		15 (a) 29 (b) 43 (c)	
DOBR. 3 ABAS C/ PUX. HT 8816.14	202018	-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-		-	
CONJ. DOBR.+ROLAM. INF/SUP HT 8810.1	212043	-		-		1		-		1		1		1		1		2		2		1		2		2		2		2		2		3	
CONJ. DOBR.+GUIA INF/SUP HT 8811.1	212044	1		1		-		2		-		1		1		1		-		-		2		-		1		1		1		1		-	
CONJ. PONTO FECHO SUPLEM. 4227 HT	212031	1		1		2		2		2		3		3		3		4		4		4		4		5		5		5		5		6	
CONJ. CALÇOS Nº1 P/ HT 4227	212144	1		1		2		2		2		3		3		3		4		4		4		4		5		5		5		5		6	
CONJ. TOPOS P/ VD 2127	212027	4		6		5		9		7		8		10		10		10		11		13		11		12		14		14		14		13	
CONJ. TOPOS P/ VD 2126	212045	2		2		1		1		1		1		2		2		2		1		1		1		2		3		2		3		1	
ESQUADRO HT Nº1	204016	8		8		8		8		8		8		8		8		8		8		8		8		8		8		8		8		8	
ESQUADRO HT Nº2	204017	16		24		24		32		32		32		40		40		40		48		48		48		48		56		56		56		56	
CANTO ALINHAMENTO OS	213017	4		4		4		4		4		4		4		4		4		4		4		4		4		4		4		4		4	
ESQUADRO DE ALINHAM. C/ APERTO	204131	8		12		12		16		16		16		20		20		20		24		24		24		24		28		28		28		28	
CONJ. BLOQUEIO HT	212033	1		1		2		2		2		3		3		3		4		4		4		4		5		5		5		5		6	
Consultar lista para outros acessórios	-																																

* Adicionar 1 Dobradiça Central (com ou sem puxador) se peso da folha > 90Kg.

(a) H ≤ 2200mm (b) 2200mm < H ≤ 3000mm (acréscimo de 2 dobradiças/folha) (c) 3000mm < H < 3500mm (acréscimo de 2 dobradiças/folha)

** Duplicar a quantidade se a altura da folha > 2200mm.

*** Considerar metade da quantidade e adicionar parafusos no caso de se utilizar o perfil soleira HT 49.

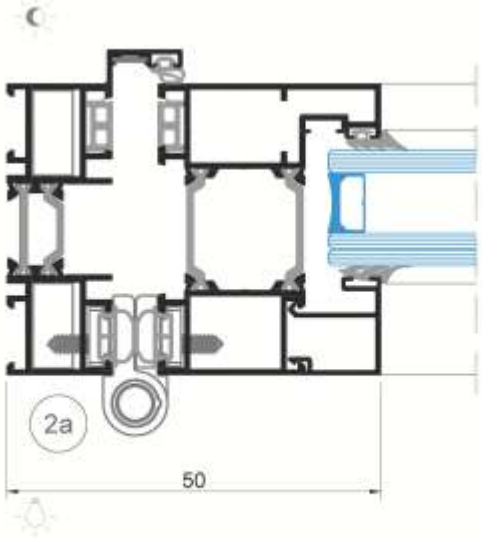
OPÇÃO DE FECHO 1 OPÇÃO DE FECHO 2 APENAS EM VÃOS COM HT 82

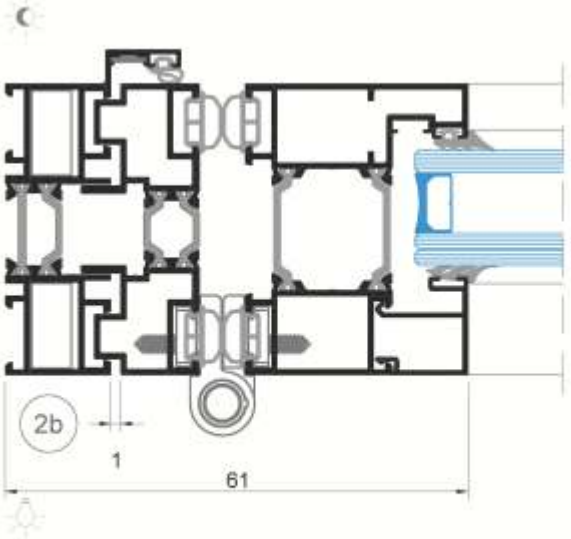


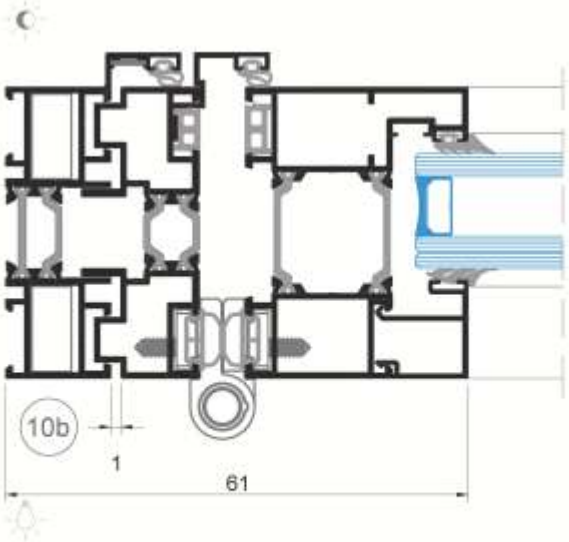
NORTALU®

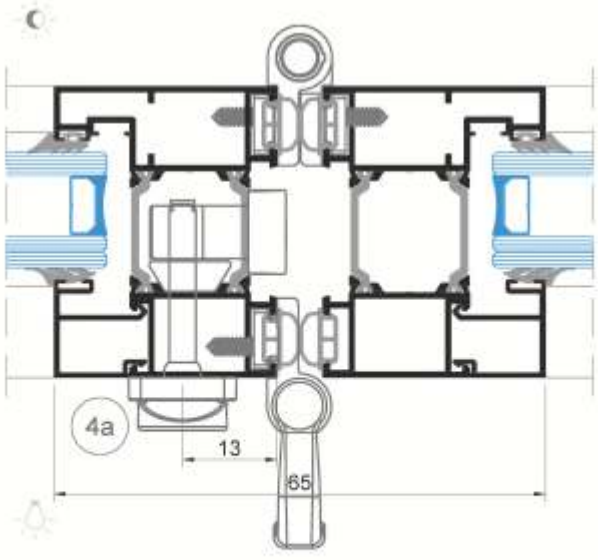
PORMENORES TÉCNICOS

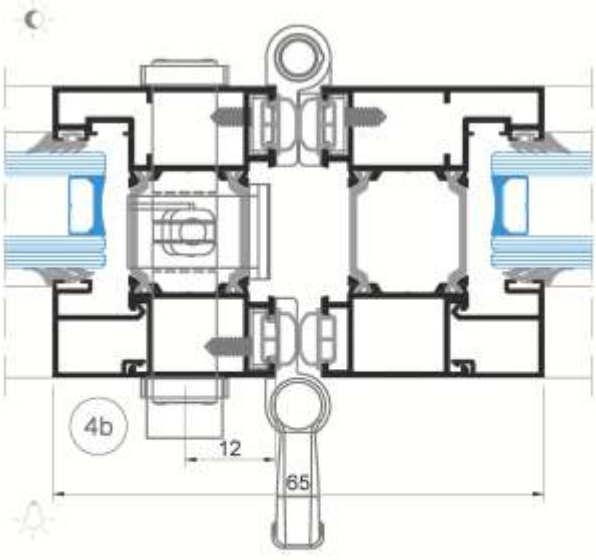
PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA INTERIOR





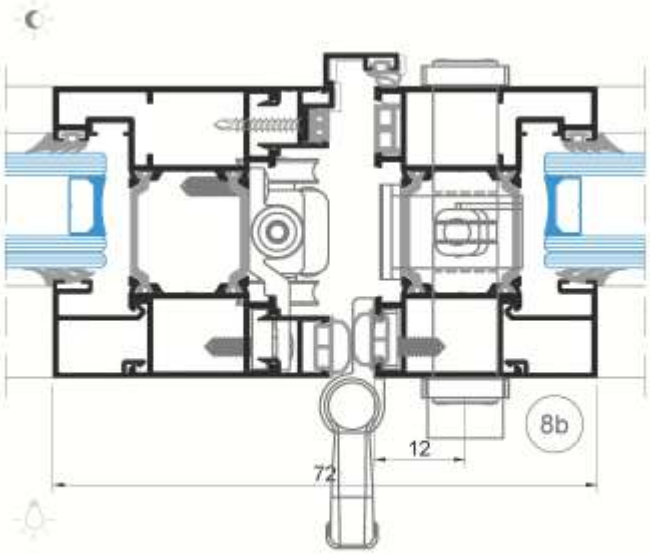


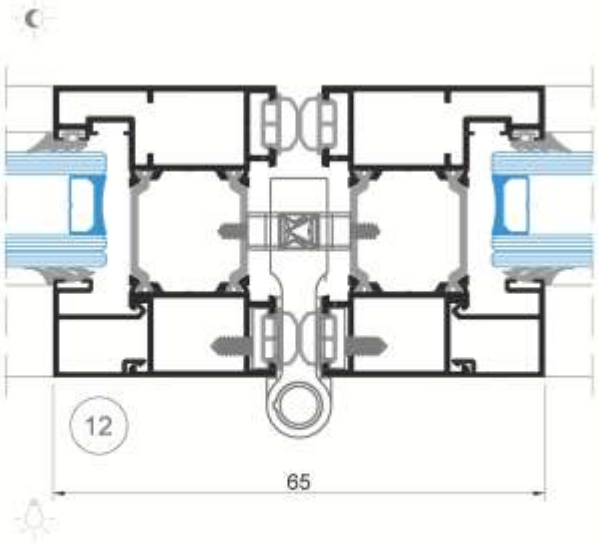


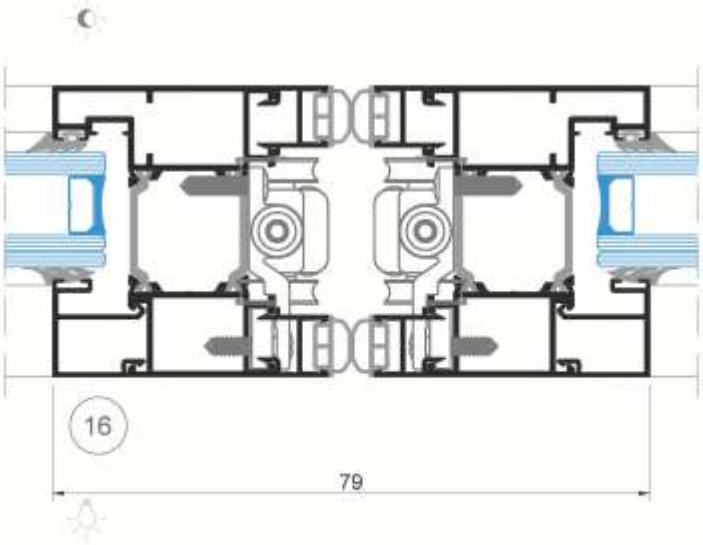


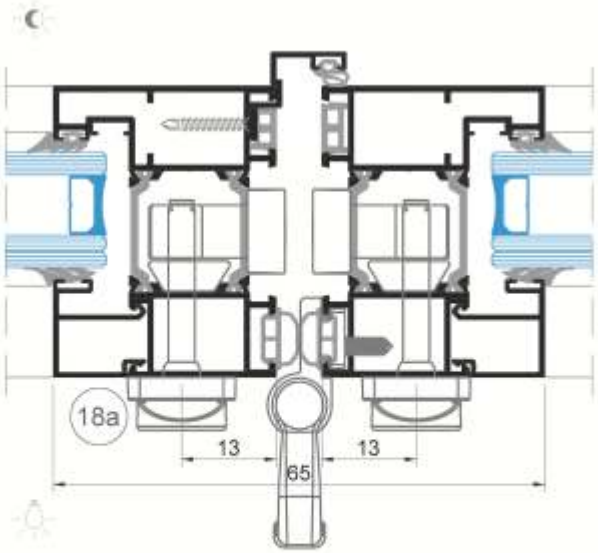
PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA INTERIOR

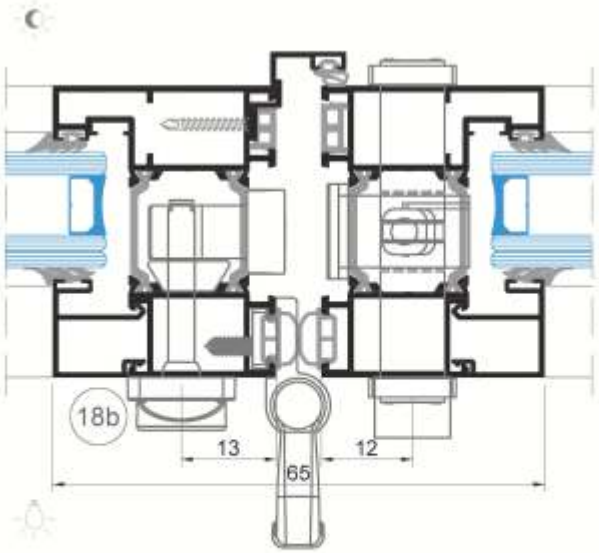




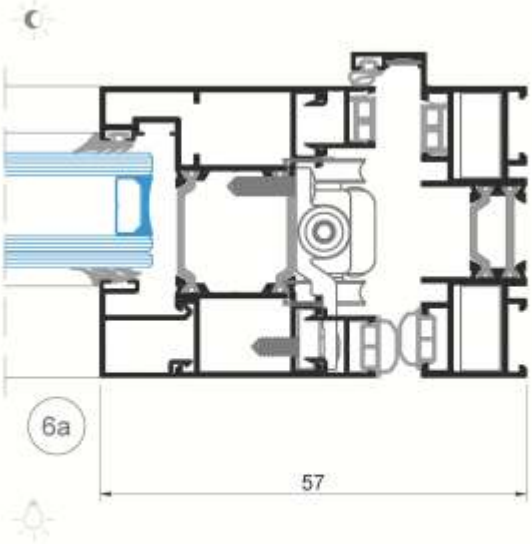


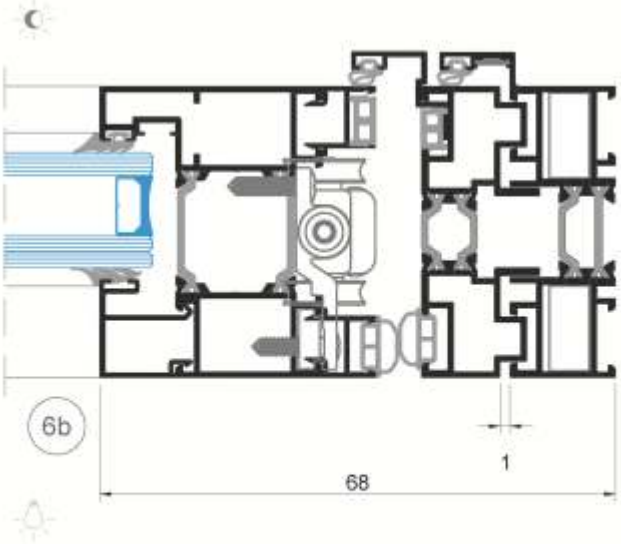


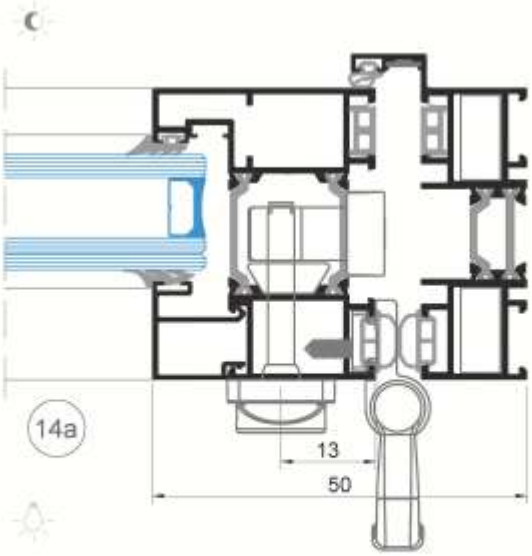


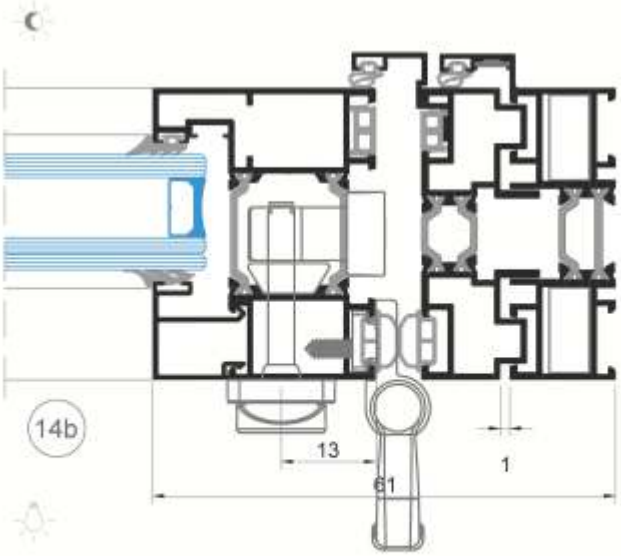


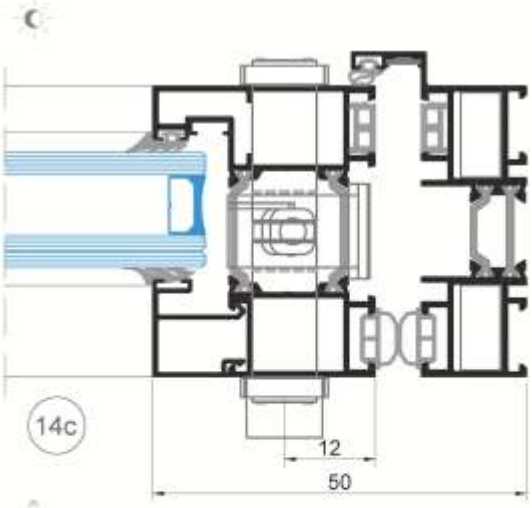
PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA INTERIOR

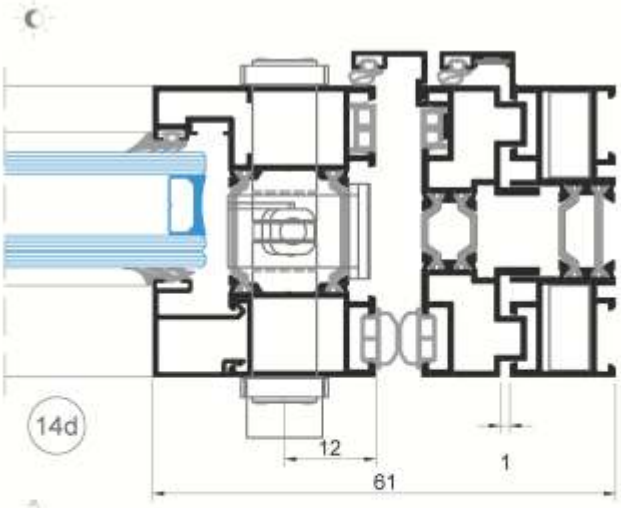




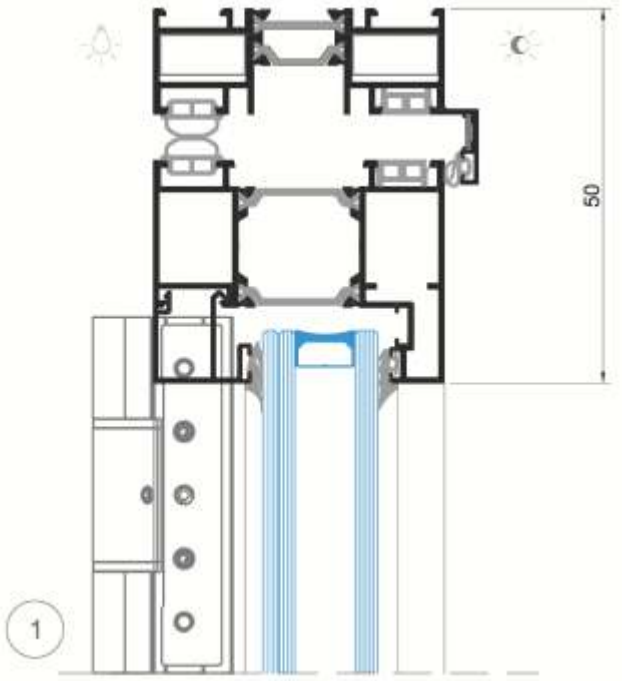


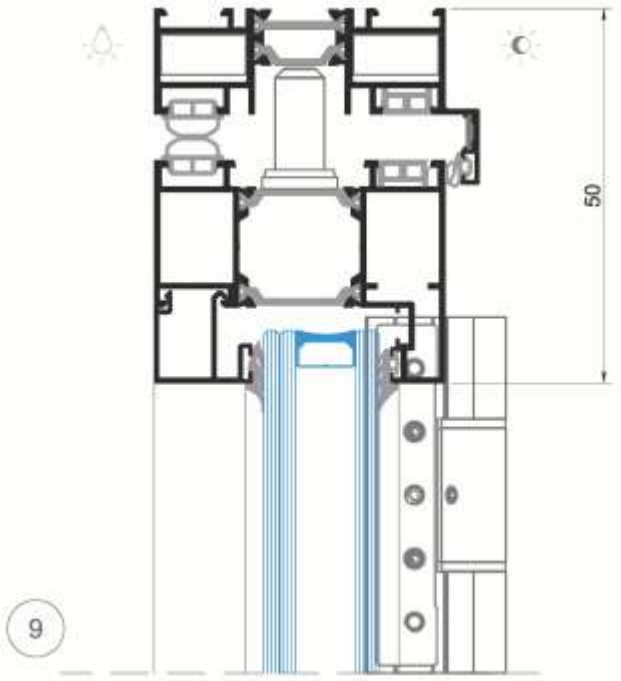


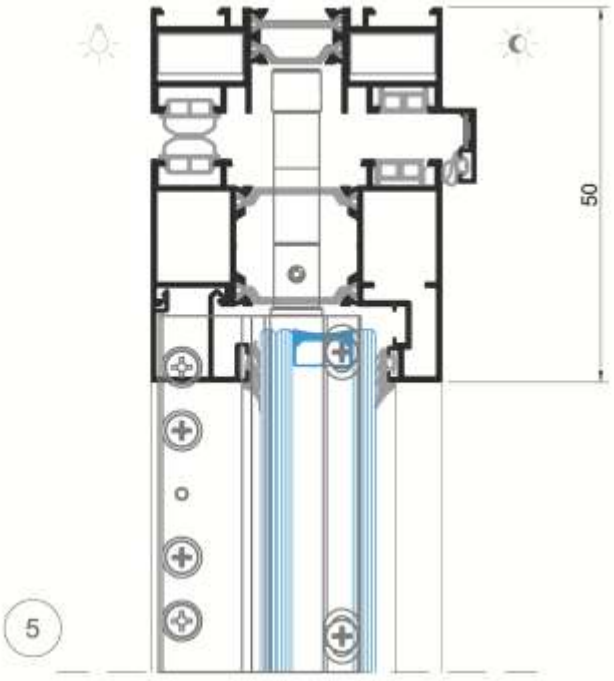


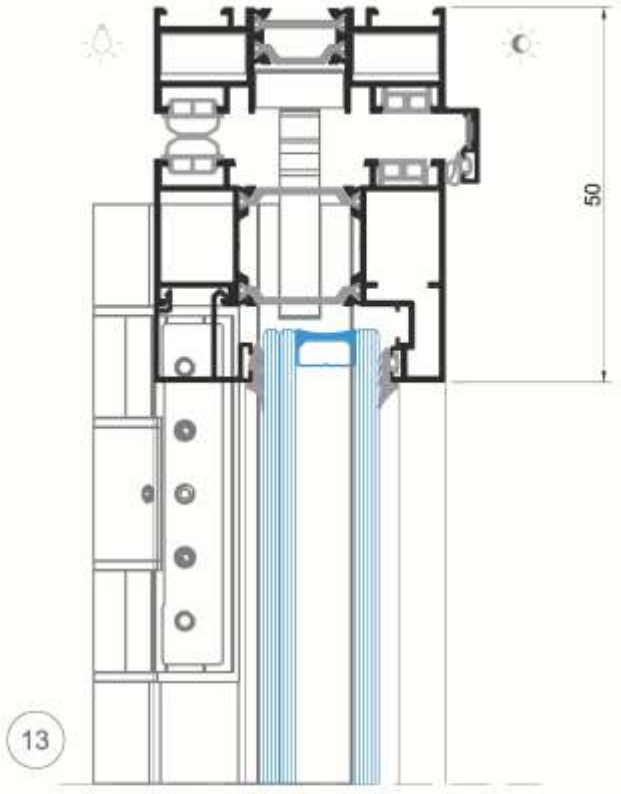


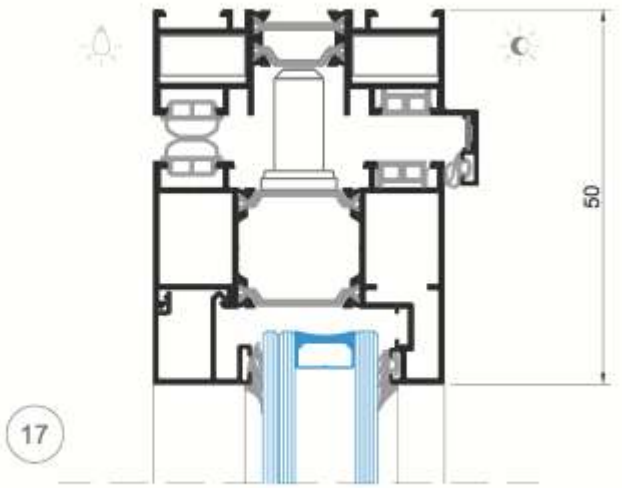
PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA INTERIOR



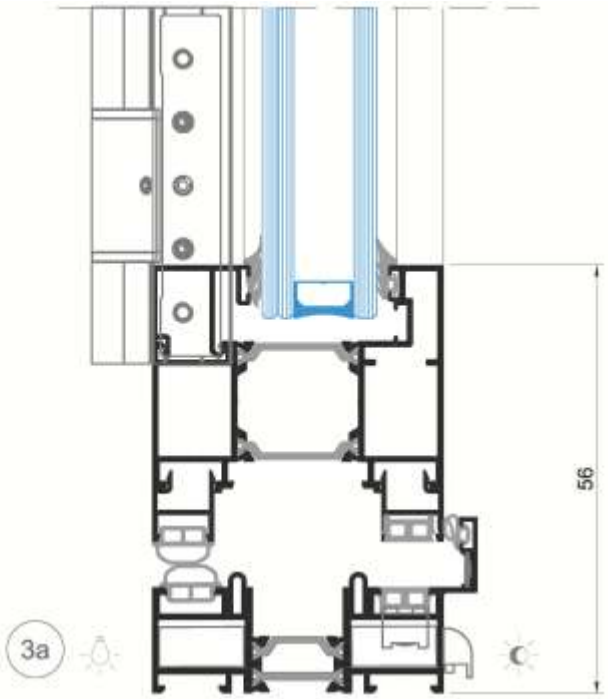


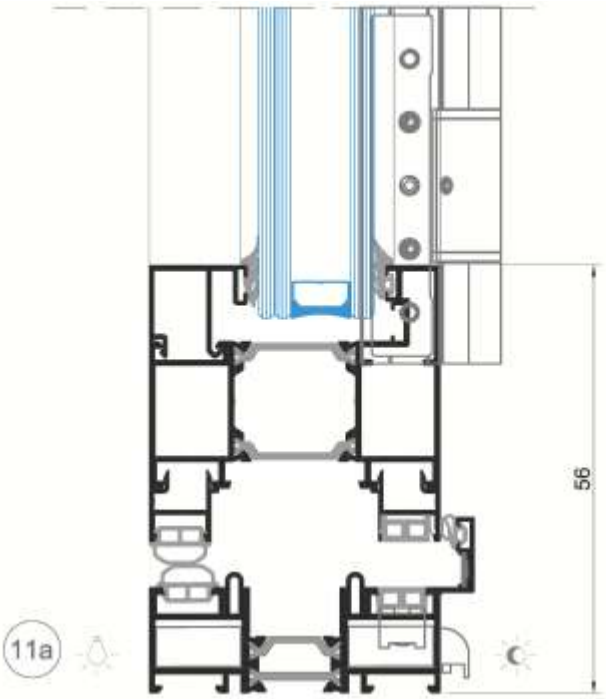


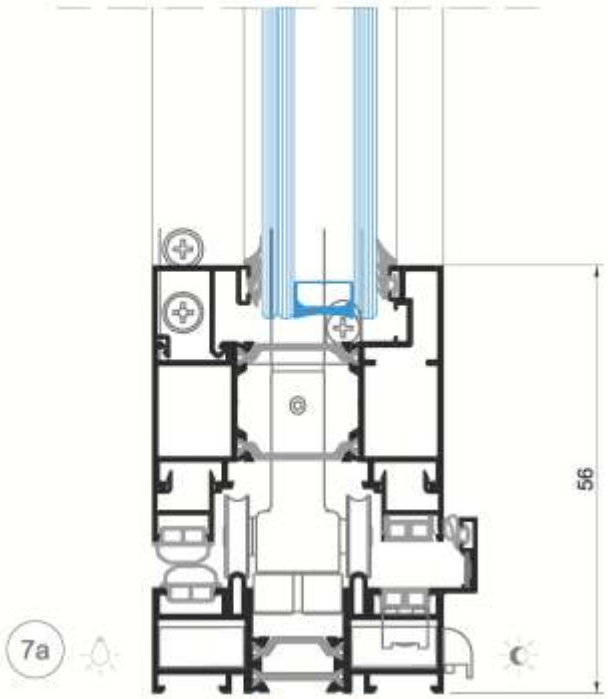


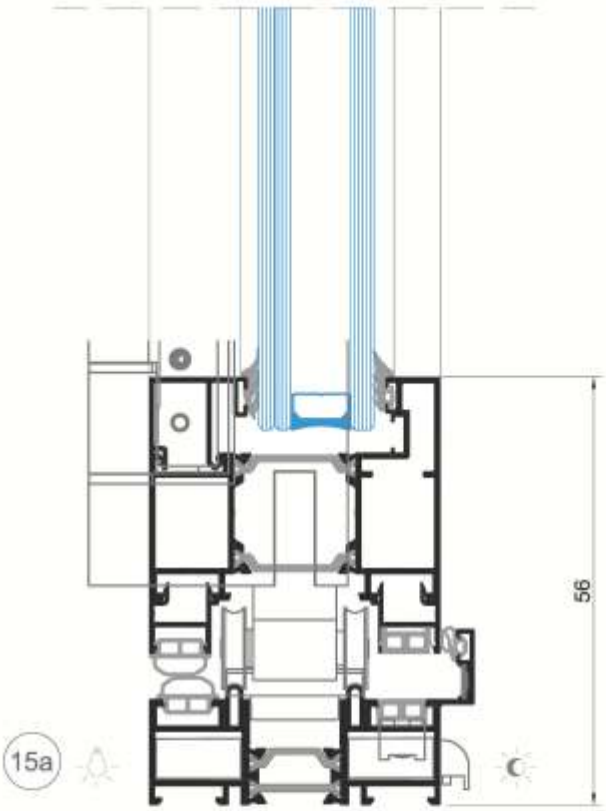


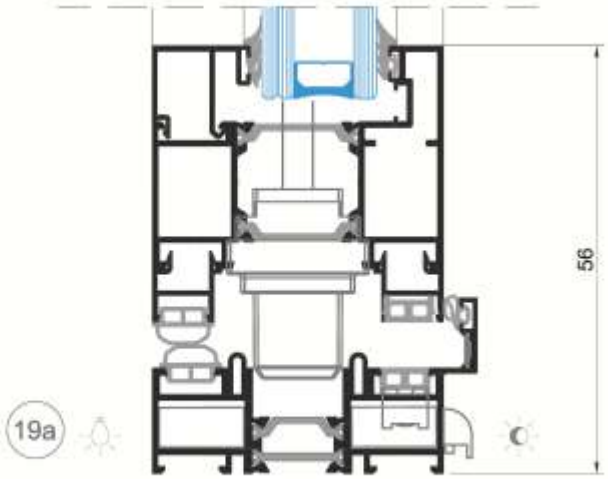
PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA INTERIOR



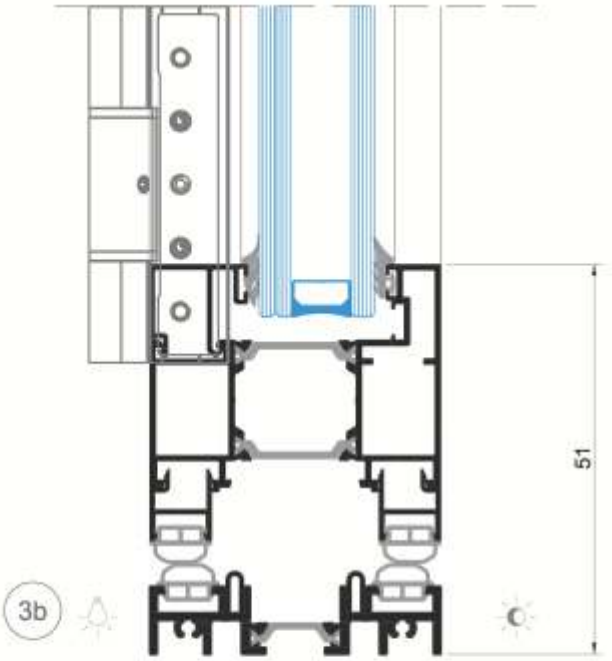


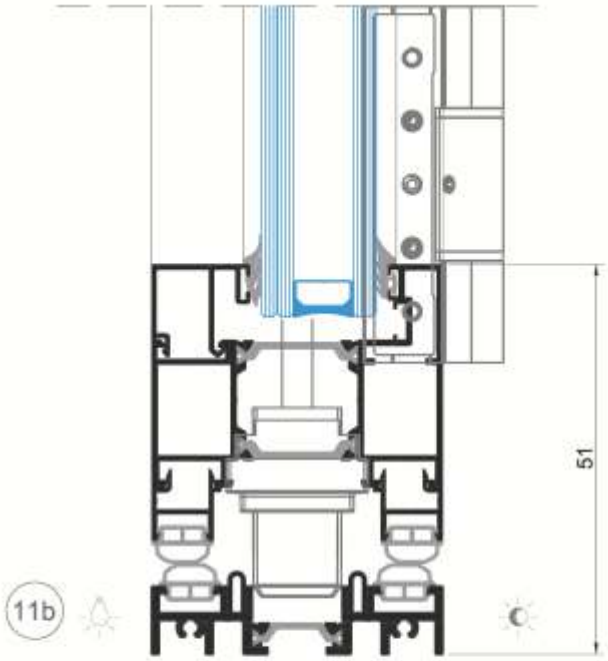


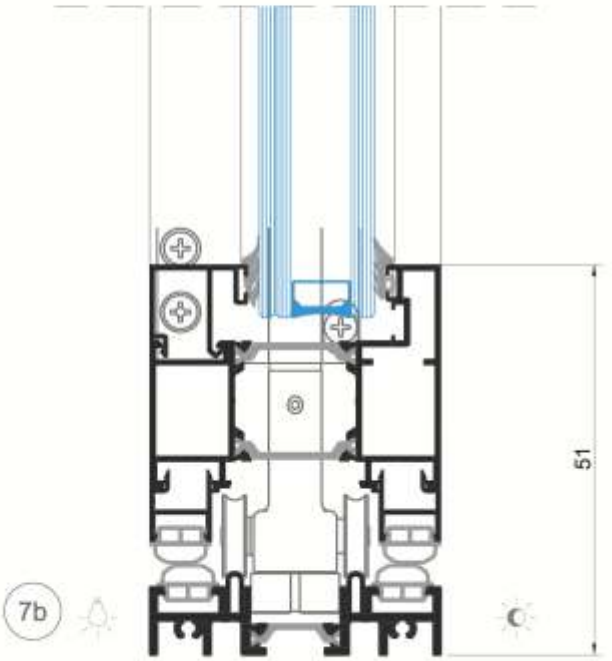


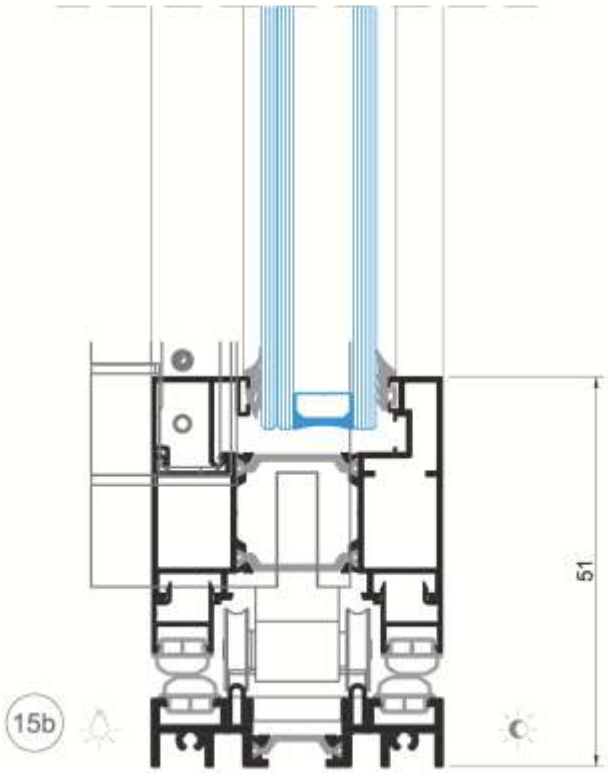


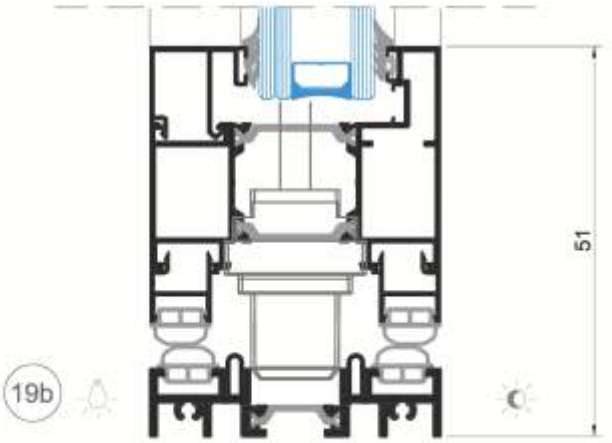
PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA INTERIOR



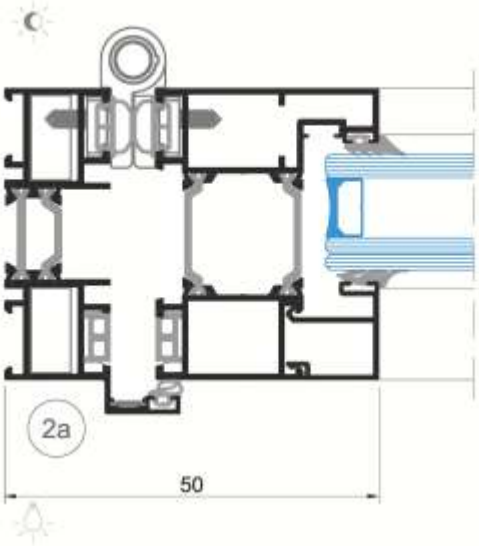


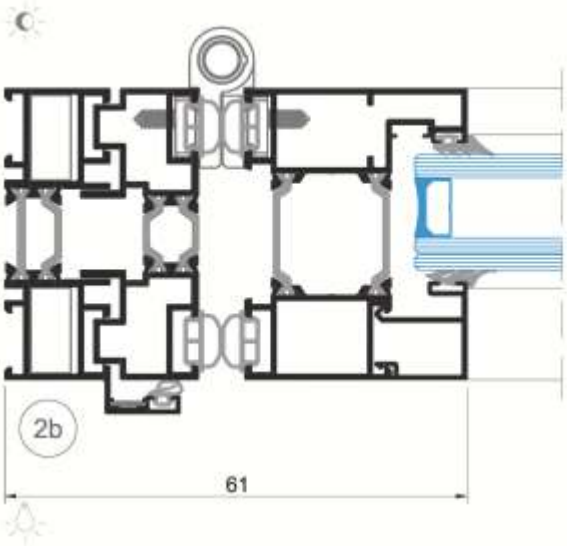


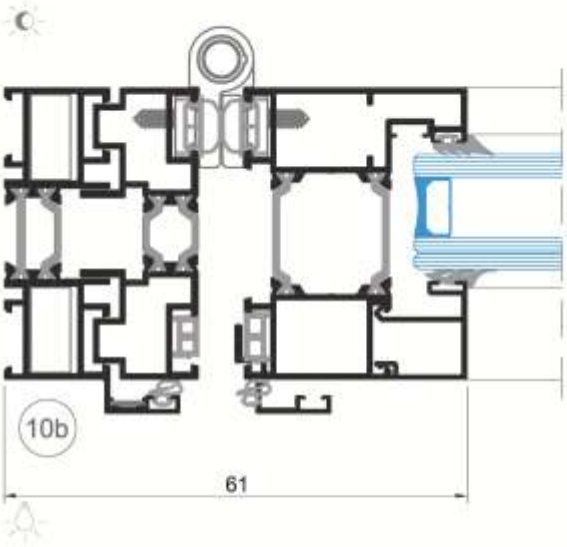


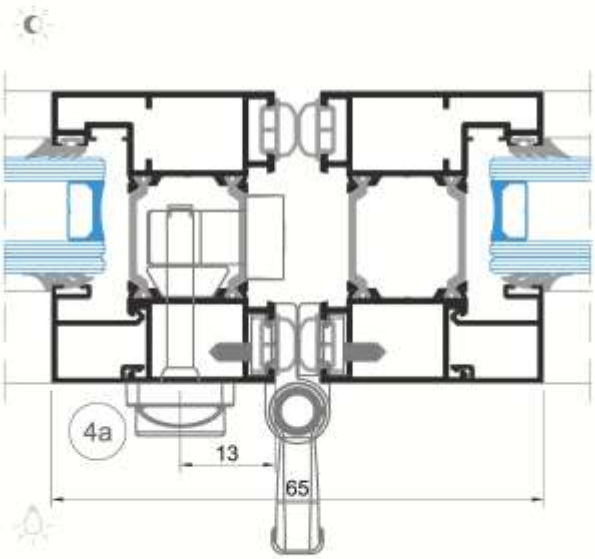


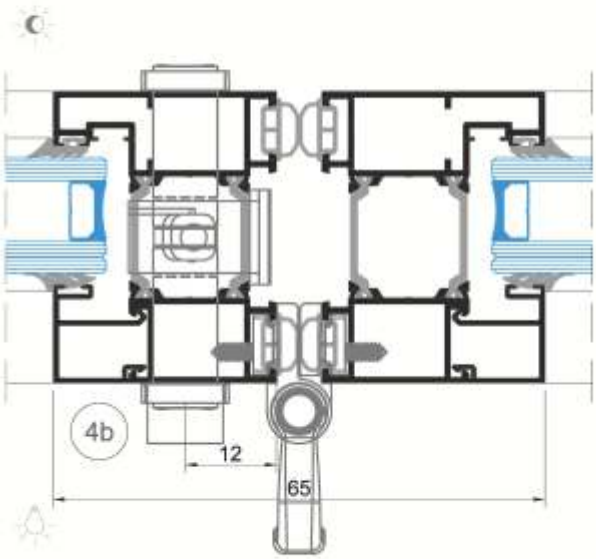
PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA EXTERIOR



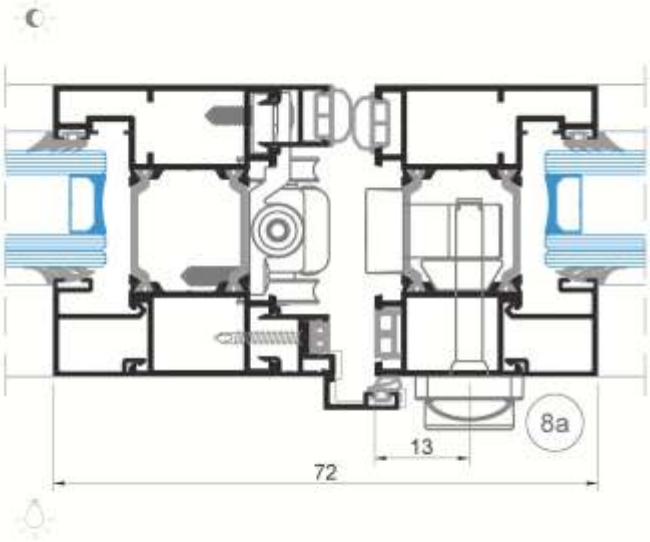




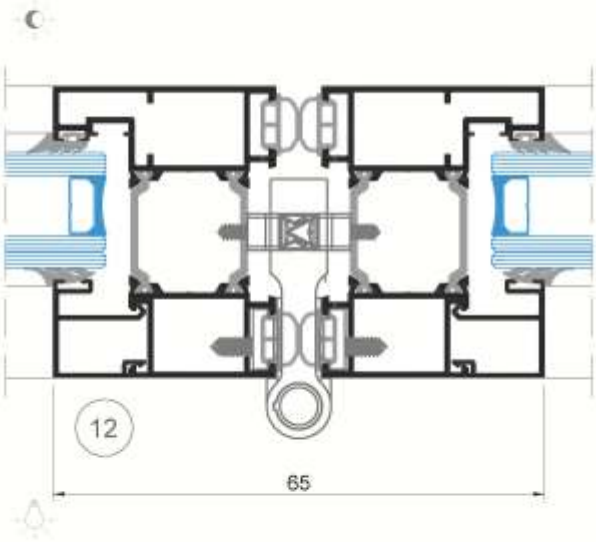


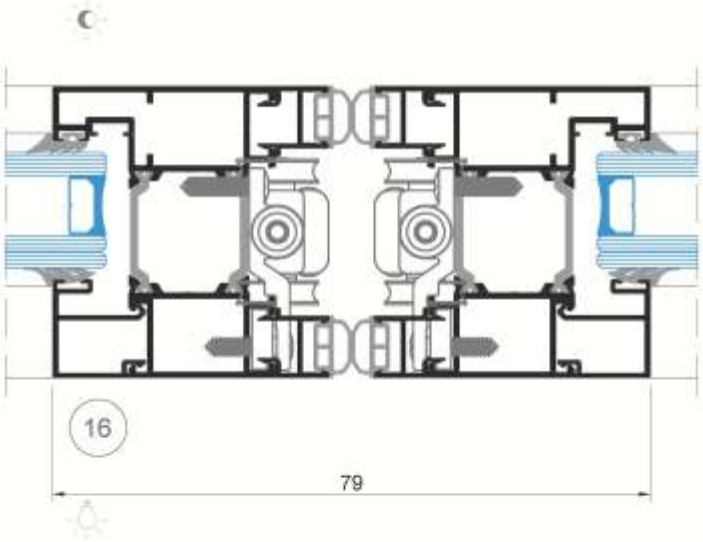


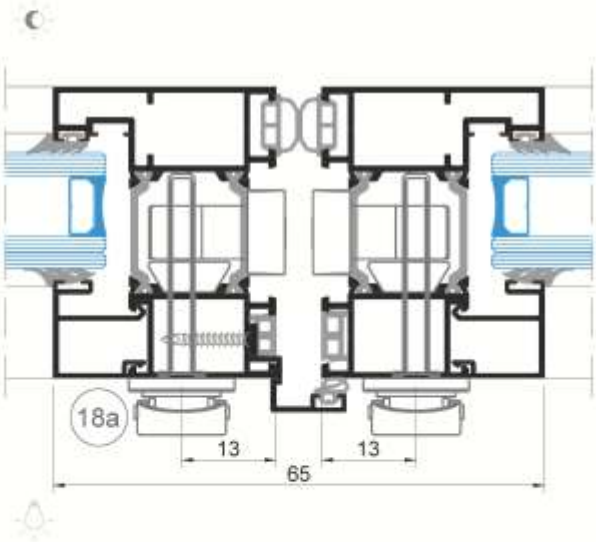
PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA EXTERIOR

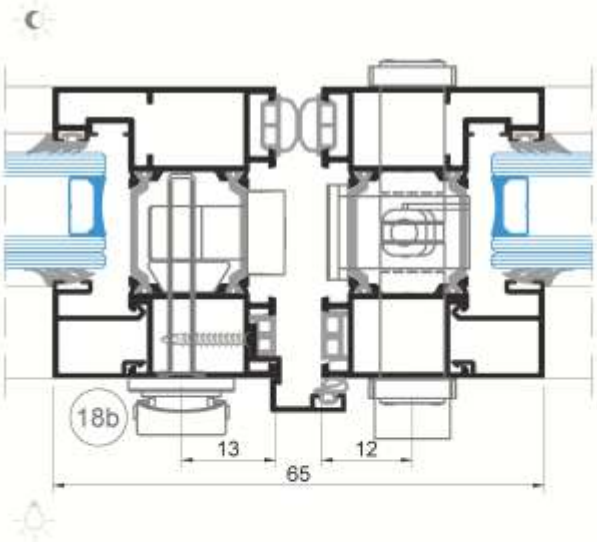




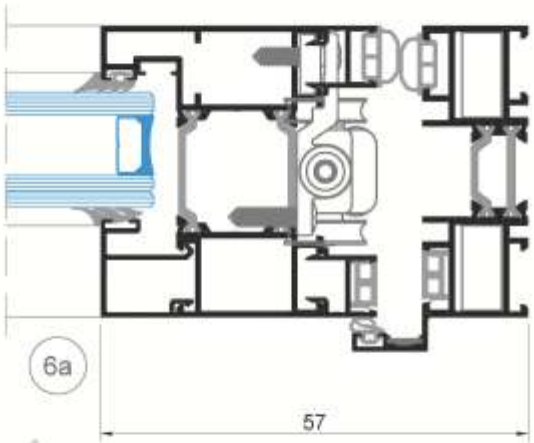


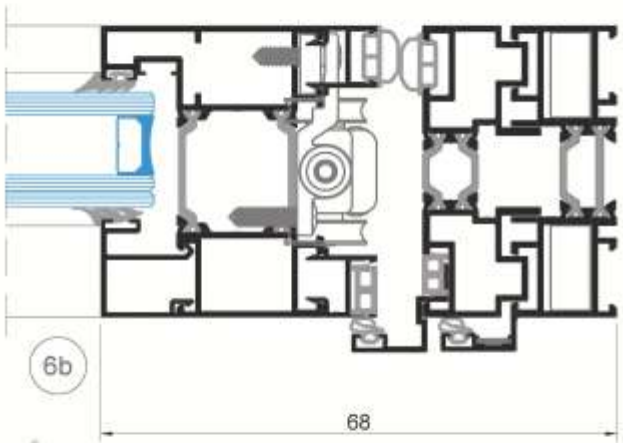


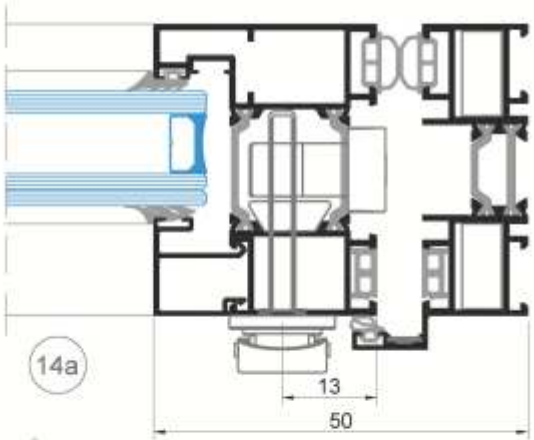


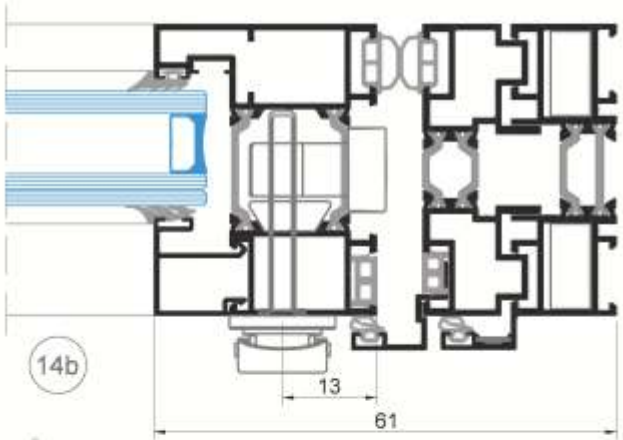


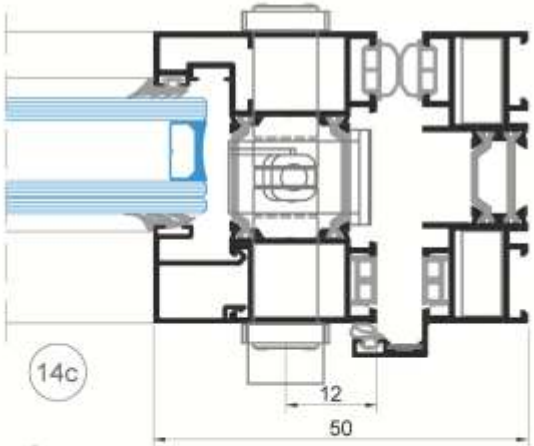
PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA EXTERIOR

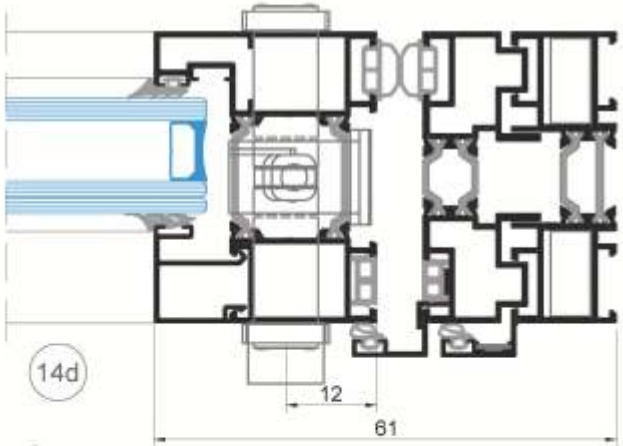




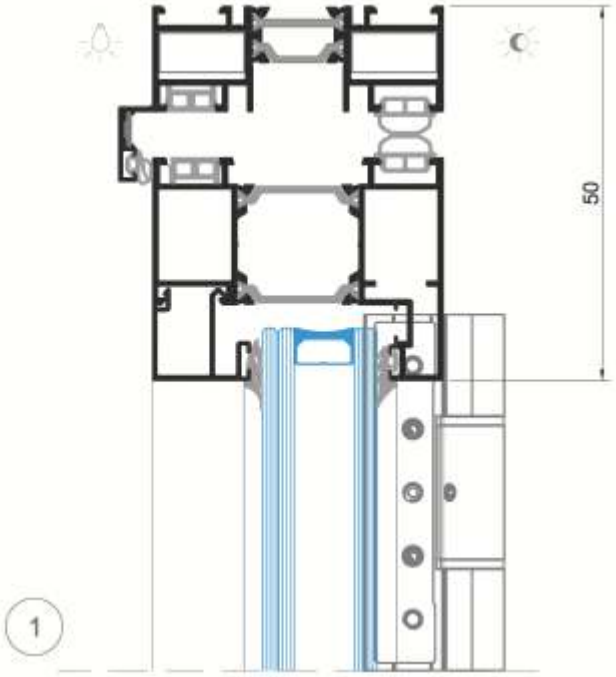


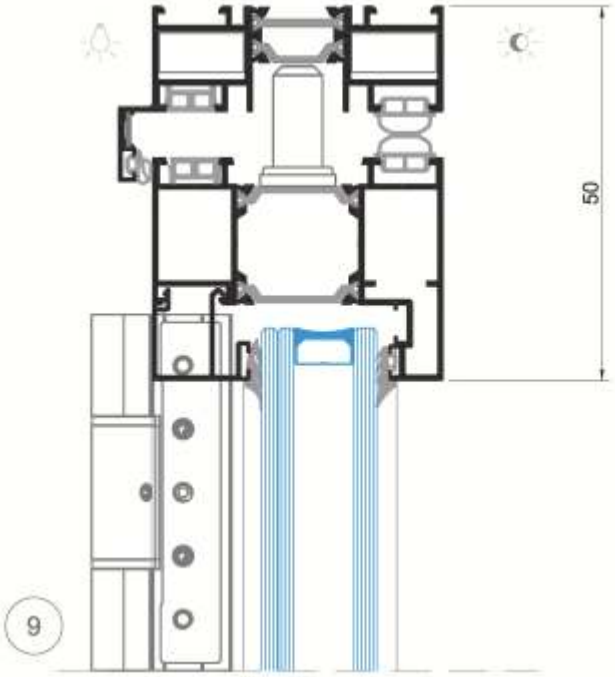


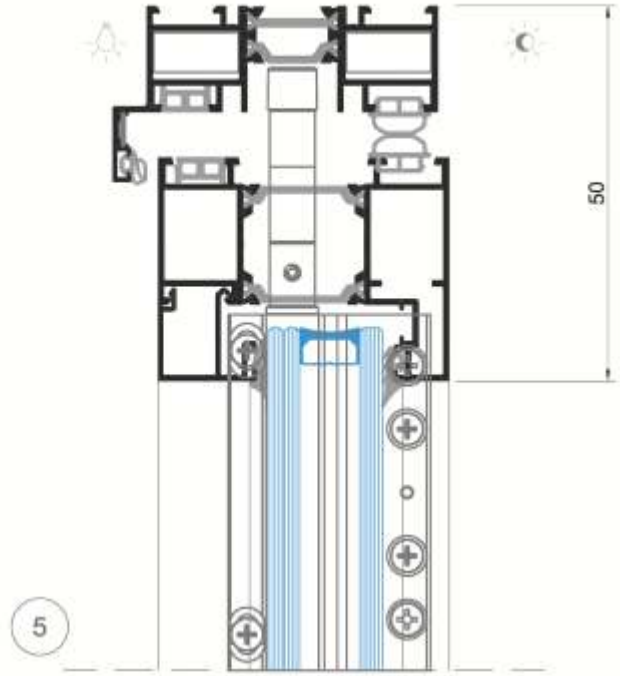


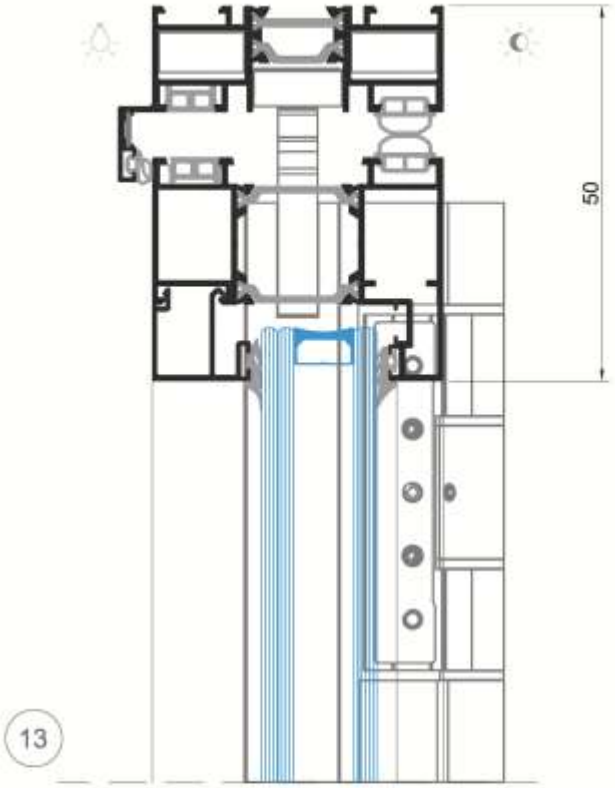


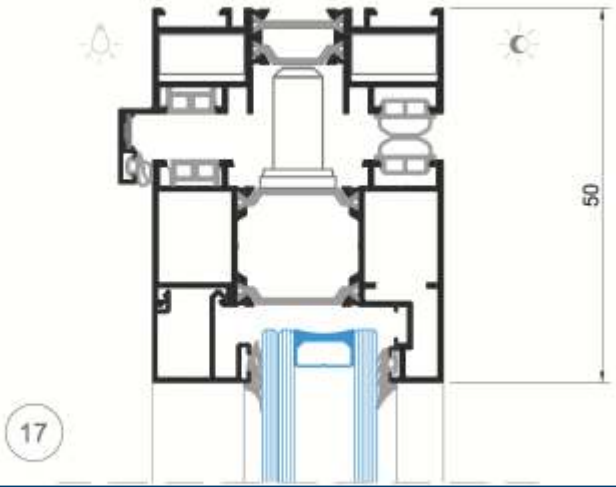
PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA EXTERIOR



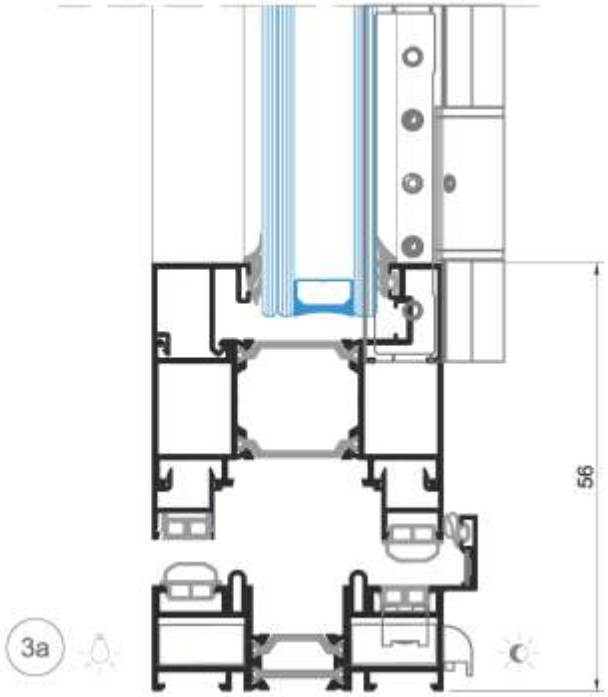


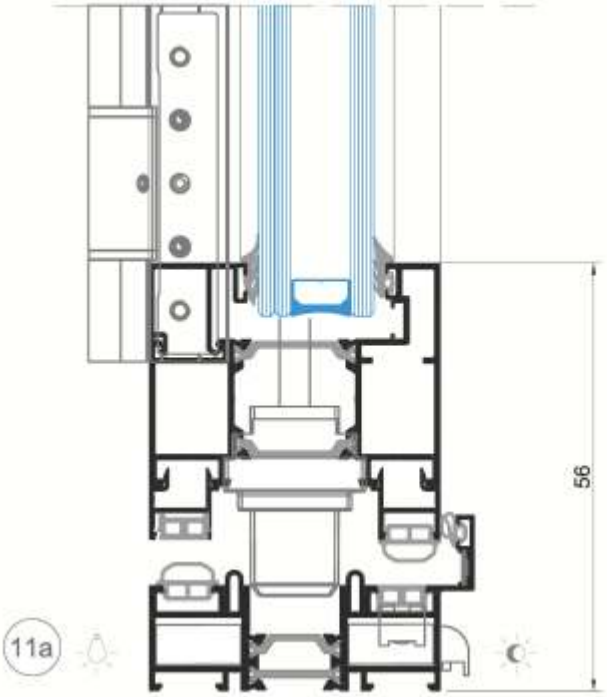


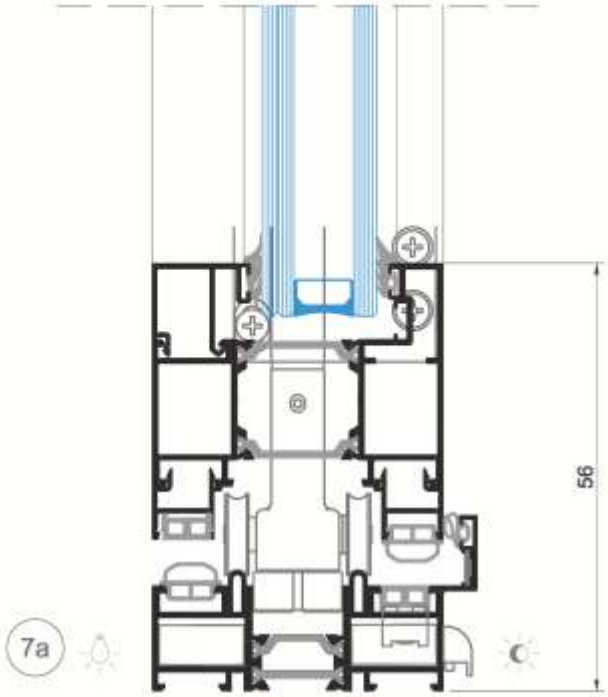


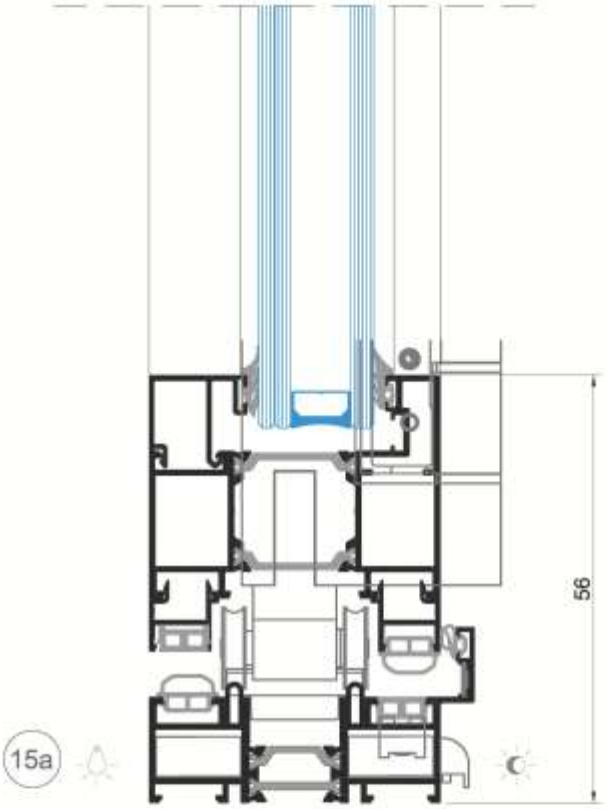


PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA EXTERIOR



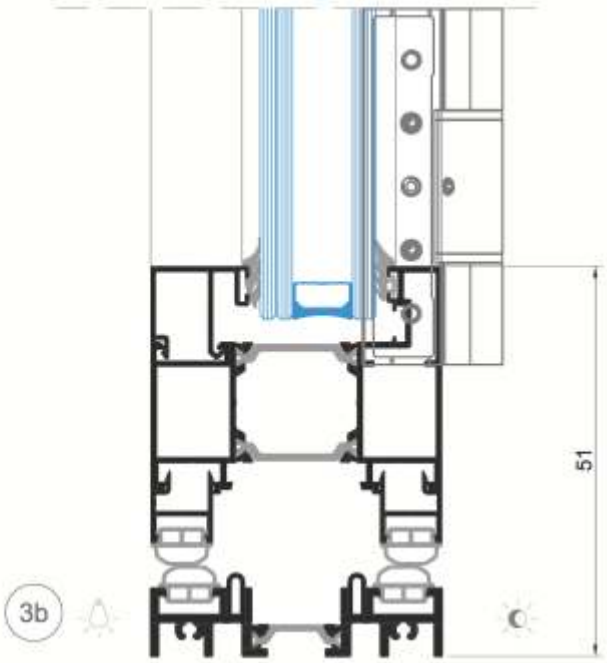


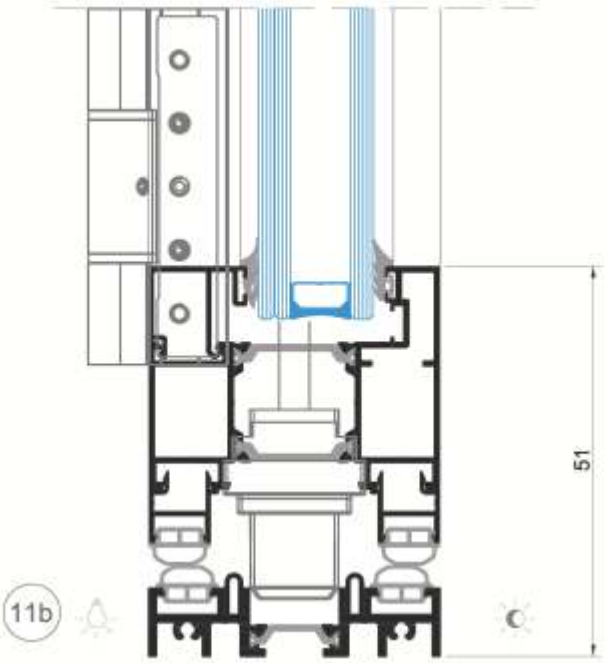


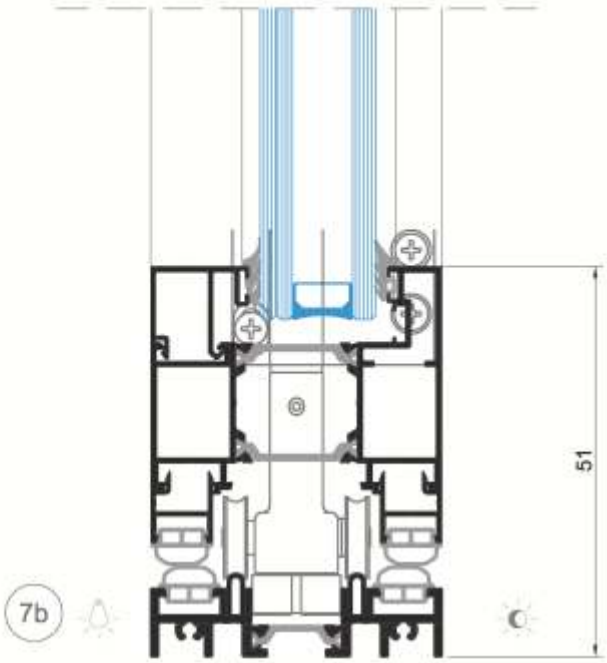


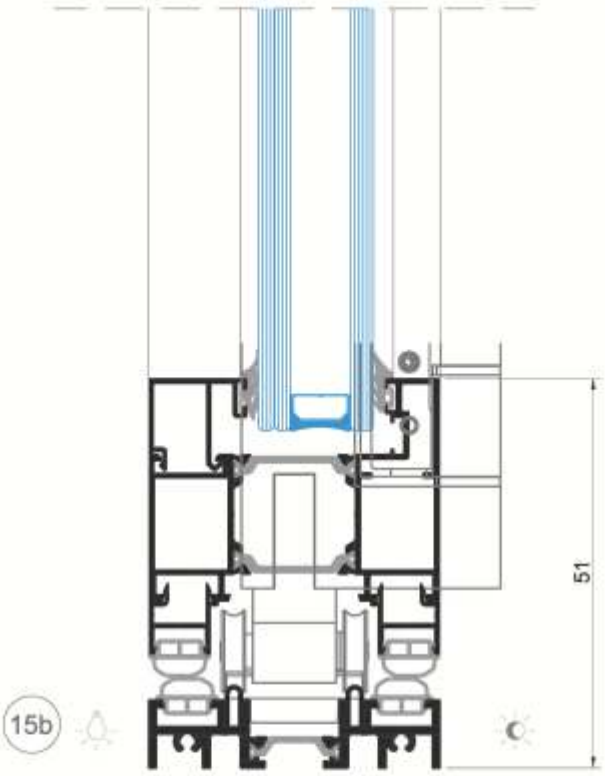


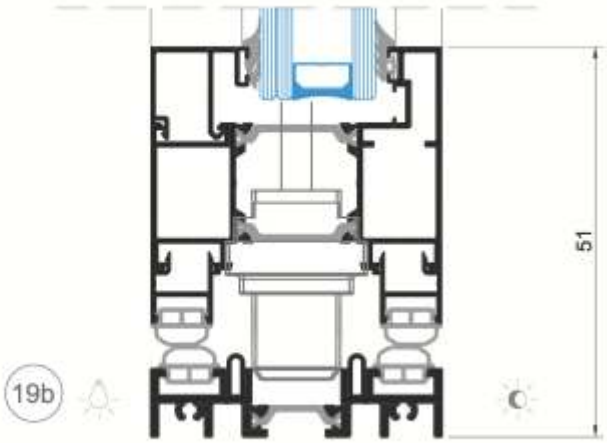
PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA EXTERIOR





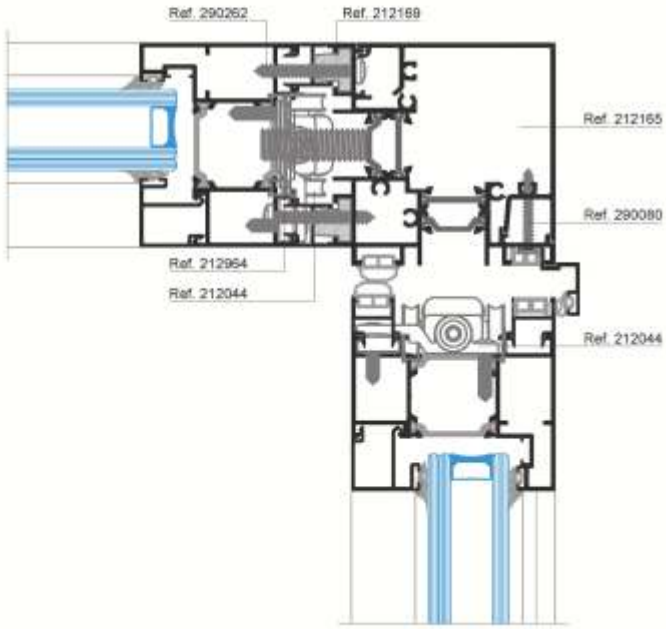




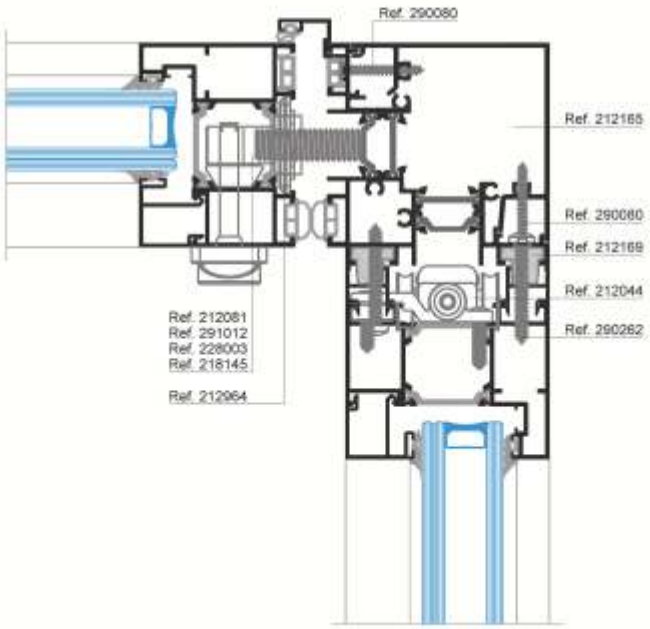


PORMENORES DE CANTO

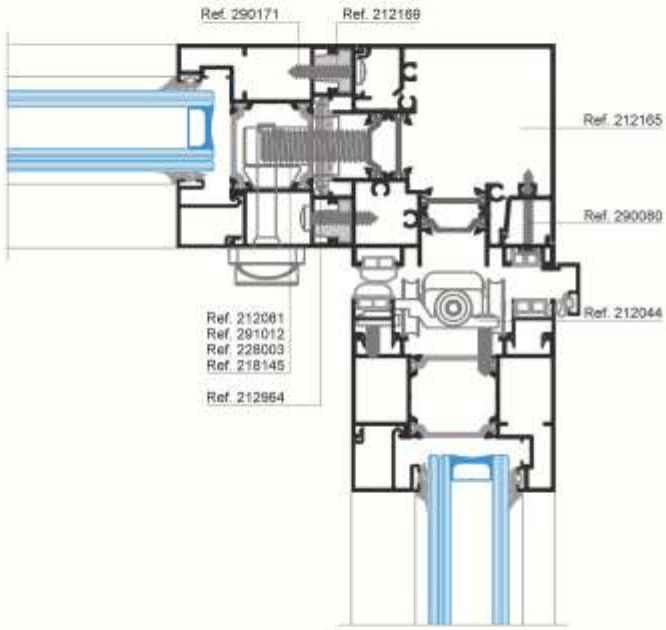
- **FOLHA PAR COM PERFIL DE CANTO | FOLHA PAR**



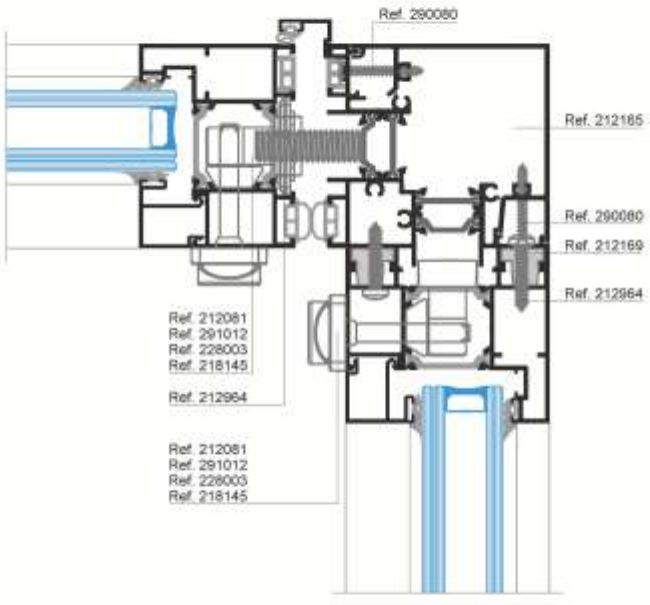
- **FOLHA PAR COM PERFIL DE CANTO | FOLHA ÍMPAR**



- **FOLHA ÍMPAR COM PERFIL DE CANTO | FOLHA PAR**

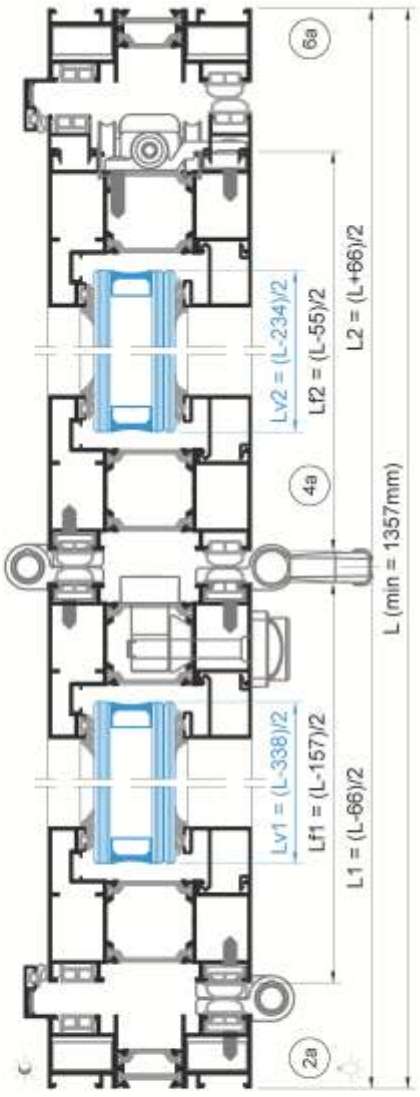


- **FOLHA ÍMPAR COM PERFIL DE CANTO | FOLHA ÍMPAR**

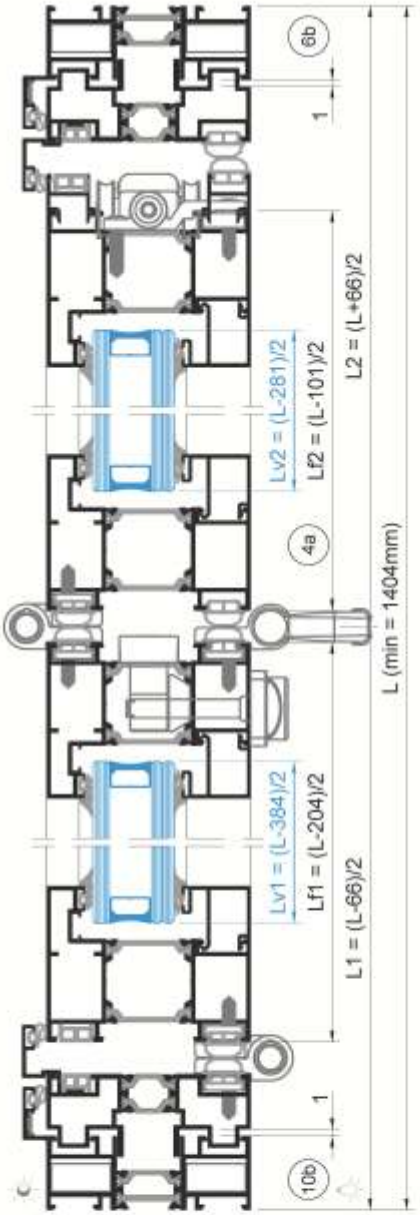


PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA INTERIOR

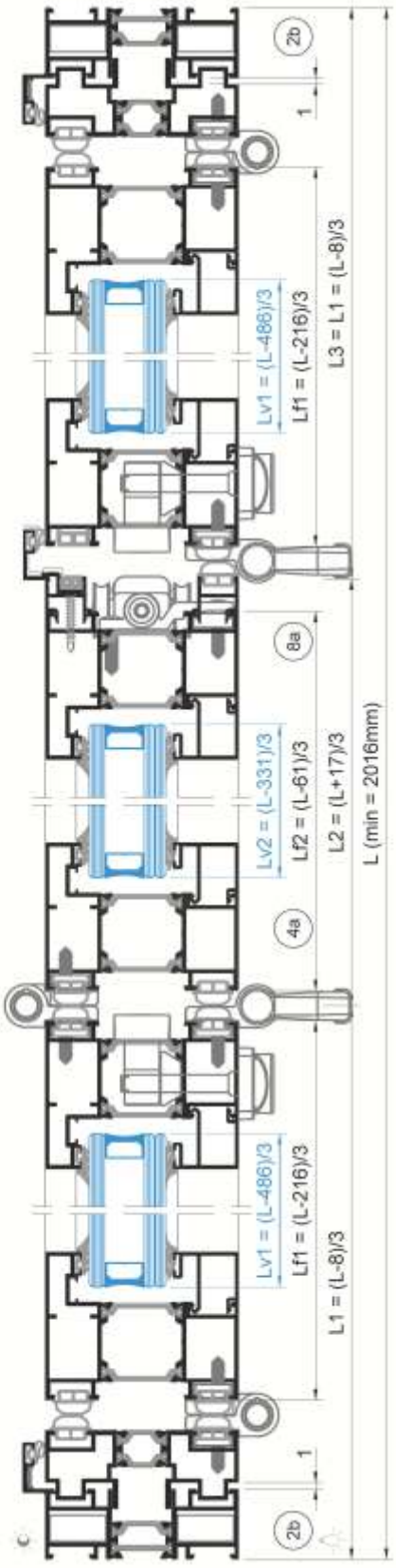
- 220



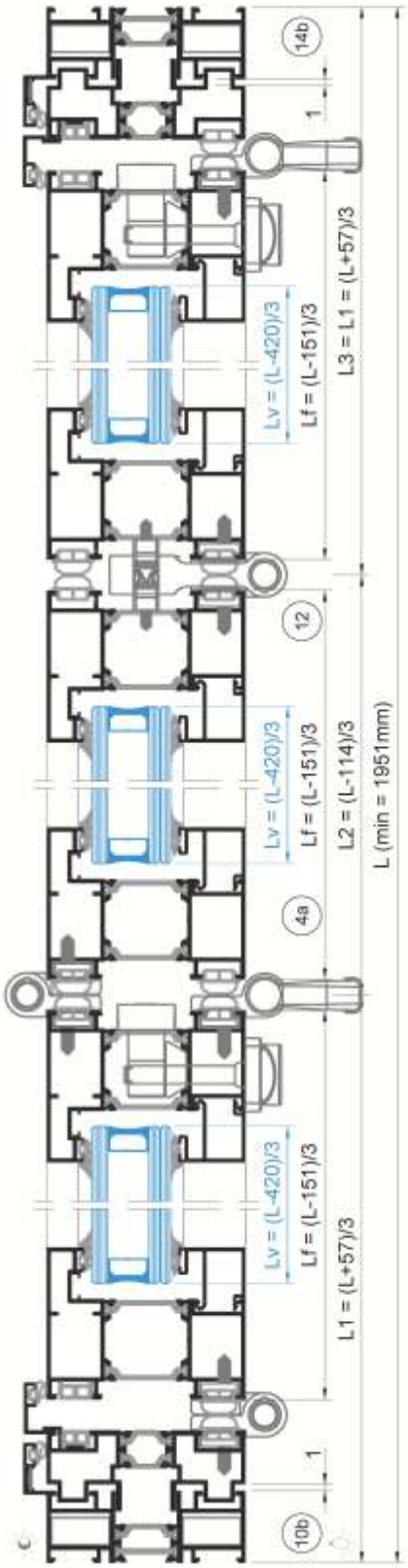
- 220 com NHT.82

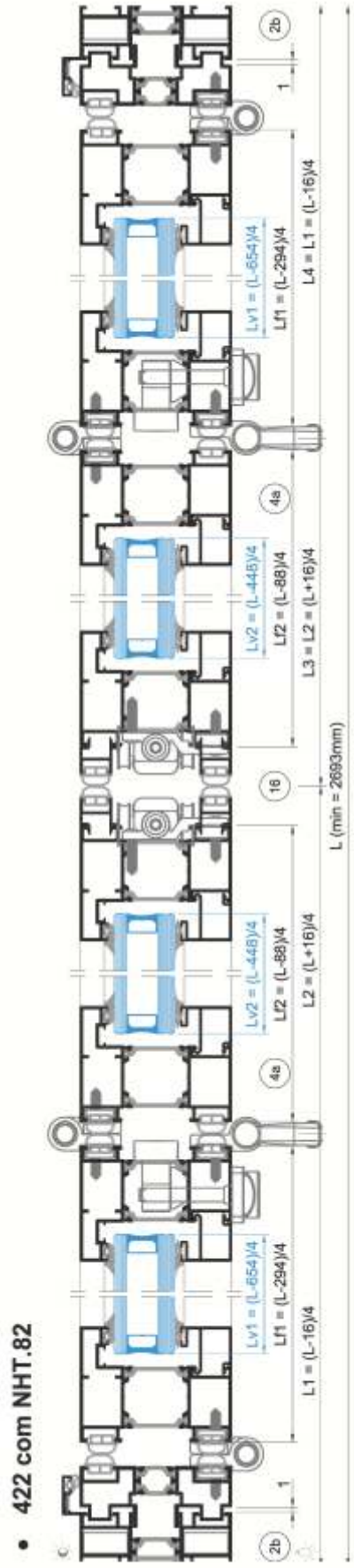


- 321 com NHT.82



- 330 com NHT.82

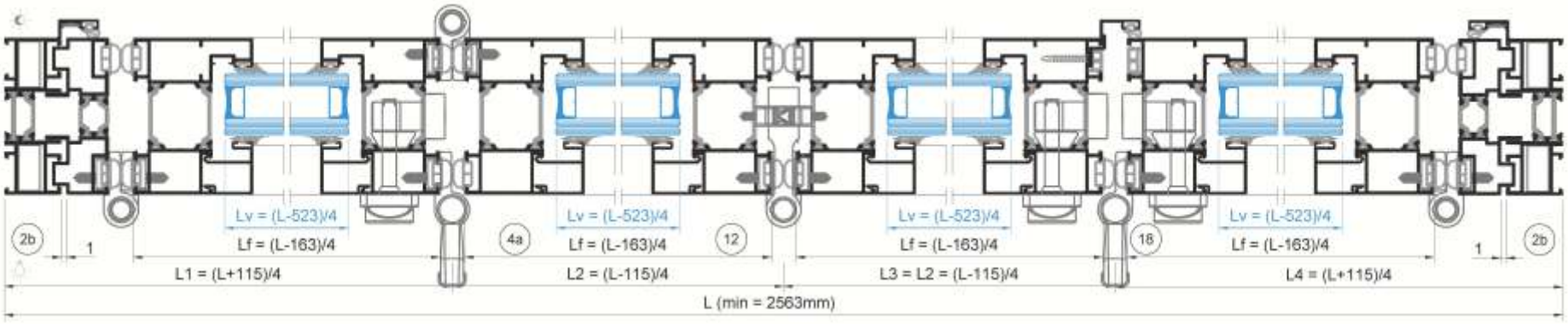




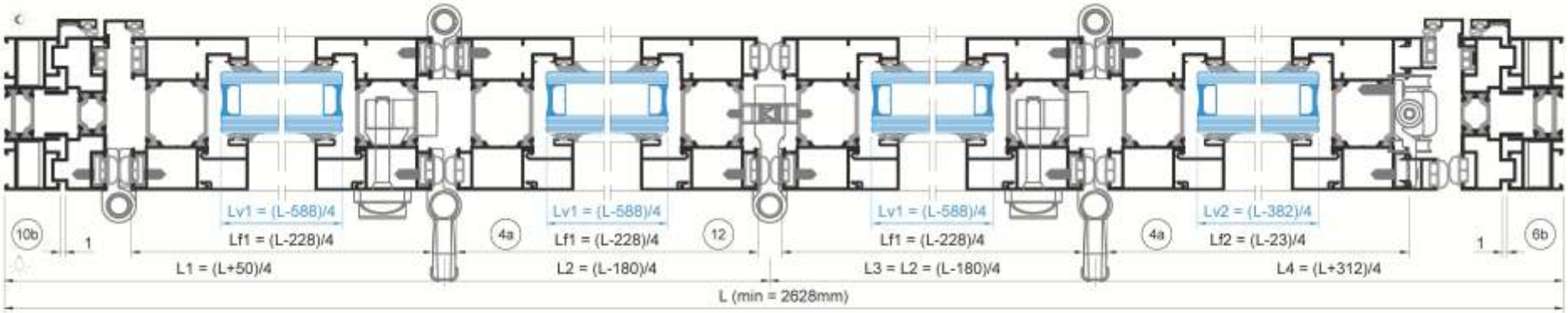
- 422 com NHT.82

PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA INTERIOR

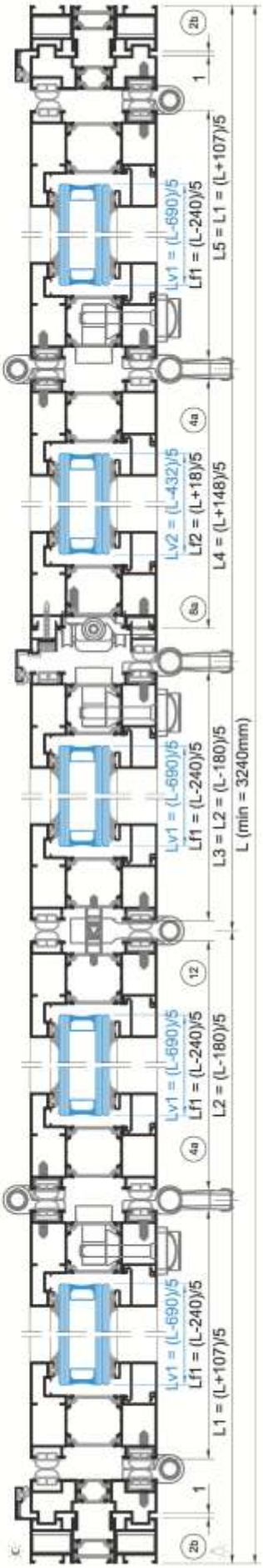
- **431 com NHT.82**



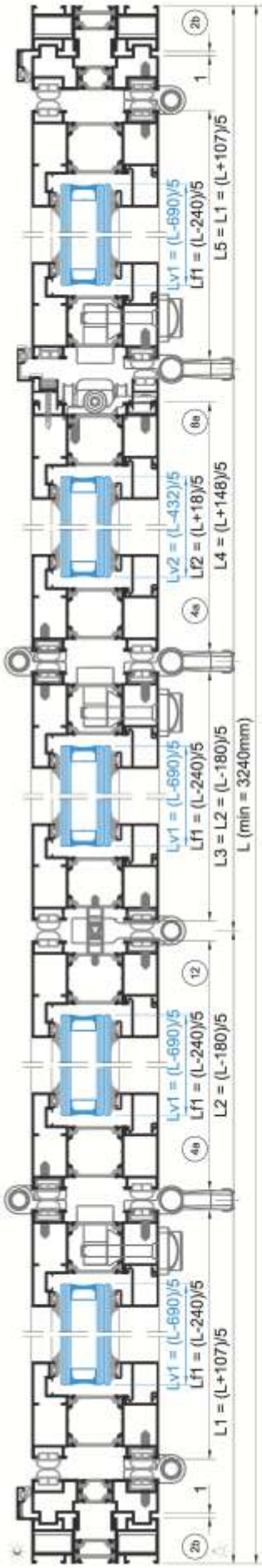
- **440 com NHT.82**



- 532 com NHT.82

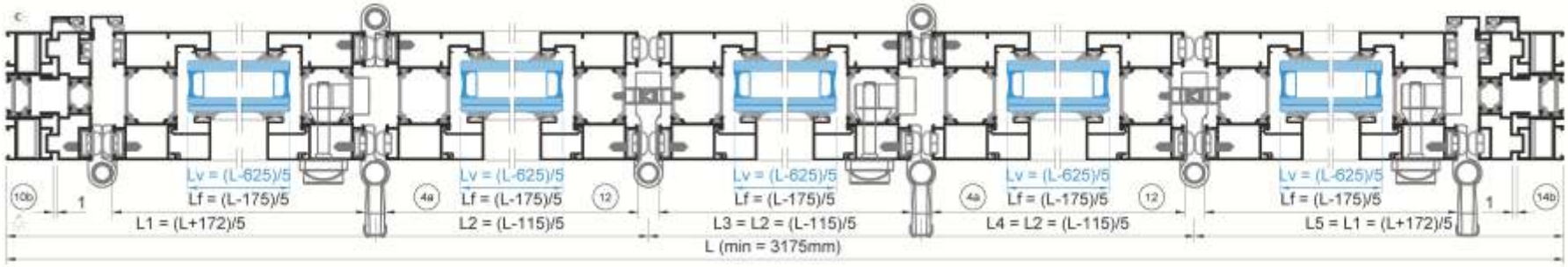


- 541 com NHT.82

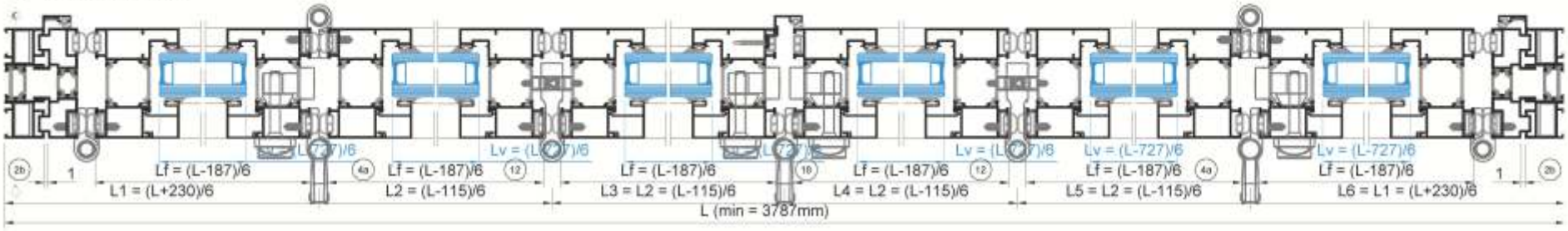


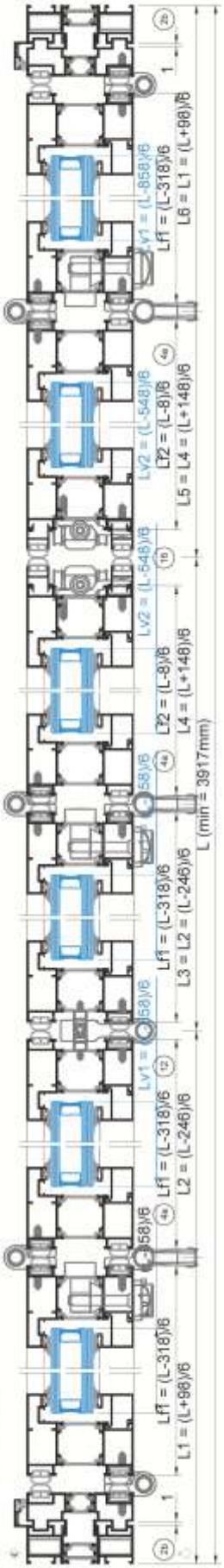
PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA INTERIOR

- **550 com NHT.82**

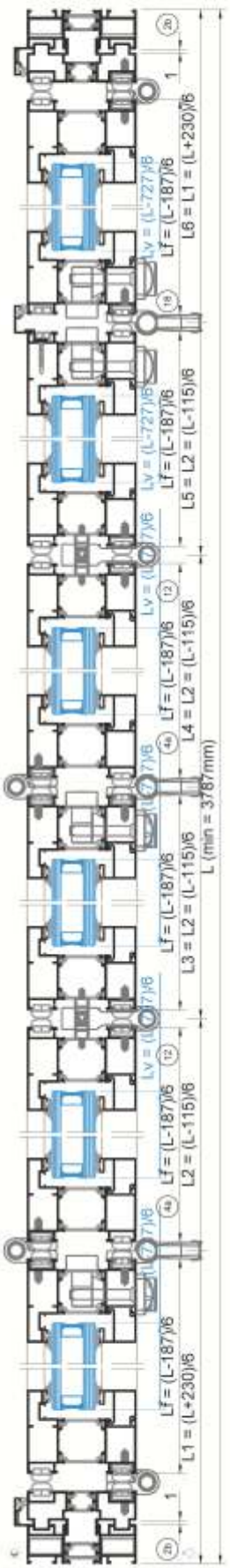


- **633 com NHT.82**





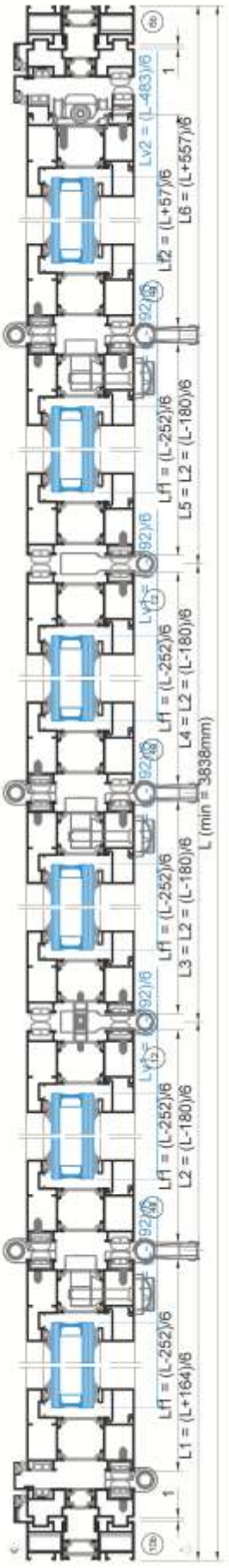
• 642 com NHT.82



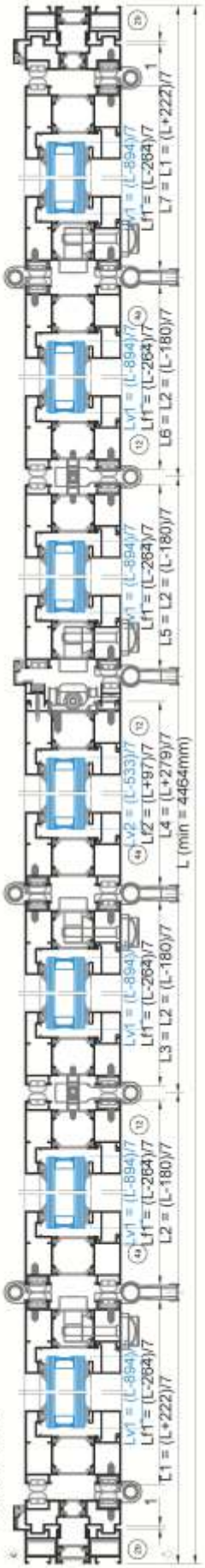
• 651 com NHT.82

PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA INTERIOR

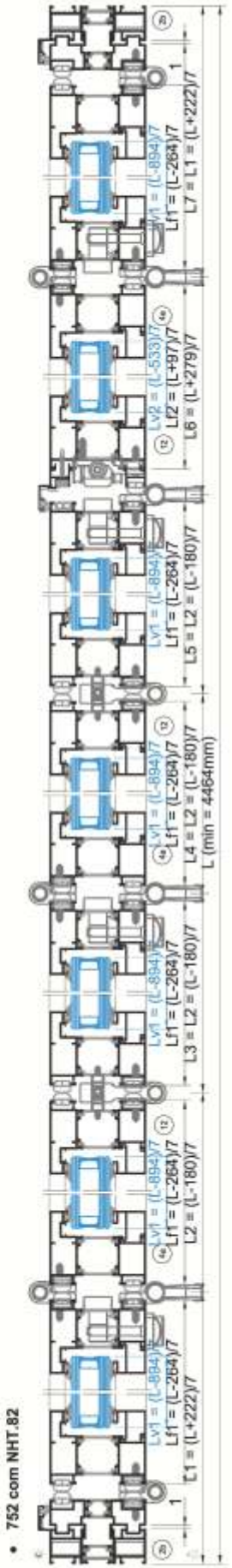
- 660 com NHT.82



- 743 com NHT.82



• 752 com NHT.82

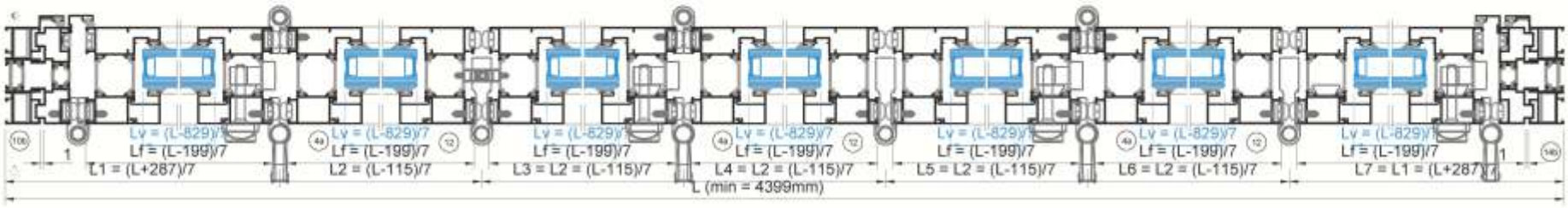


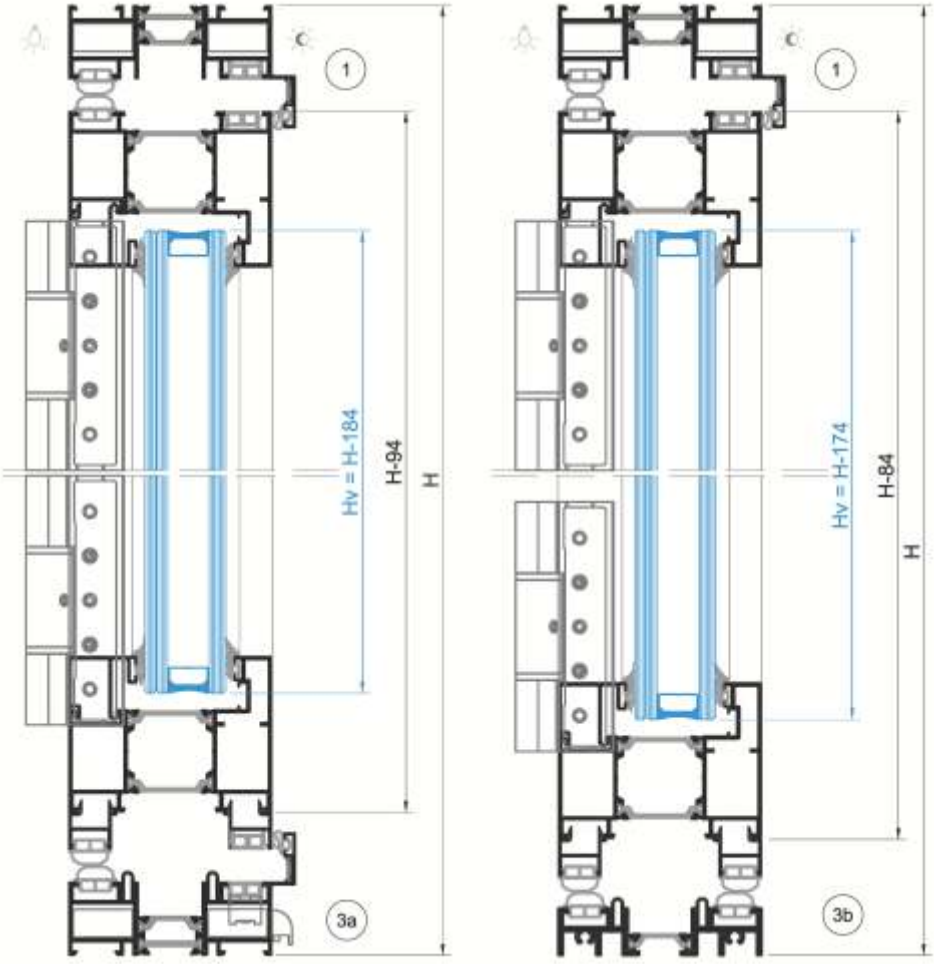
• 761 com NHT.82



PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA INTERIOR

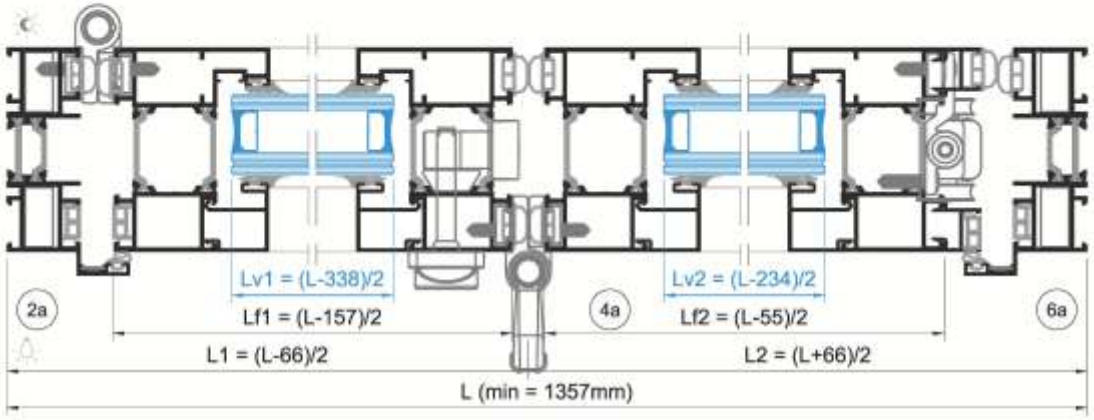
- **770 com NHT.82**



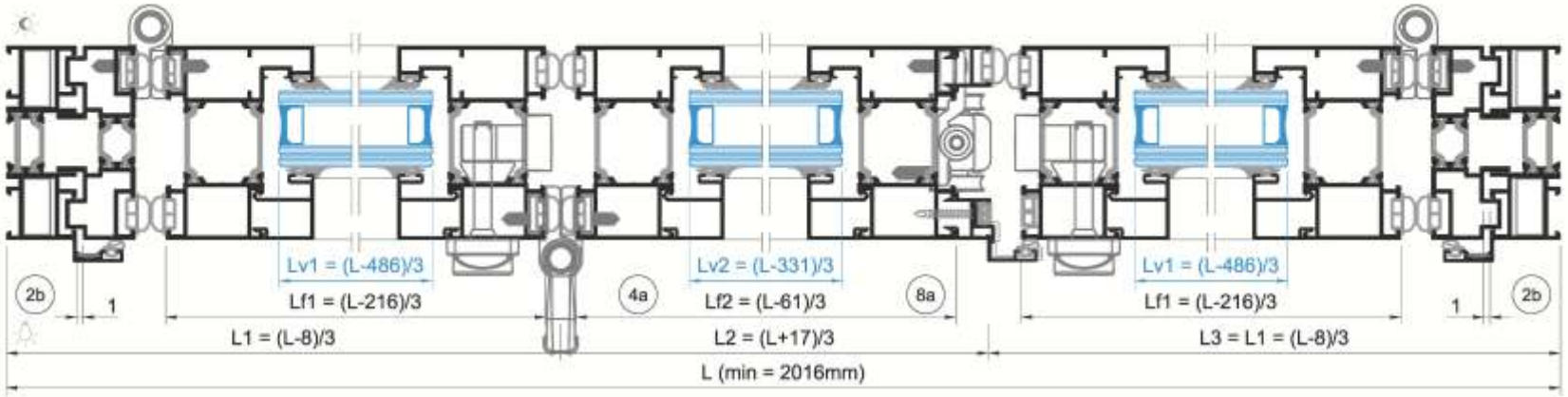

1
Hv = H-184
H-94
H
3a
1
Hv = H-174
H-84
H
3b

PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA EXTERIOR

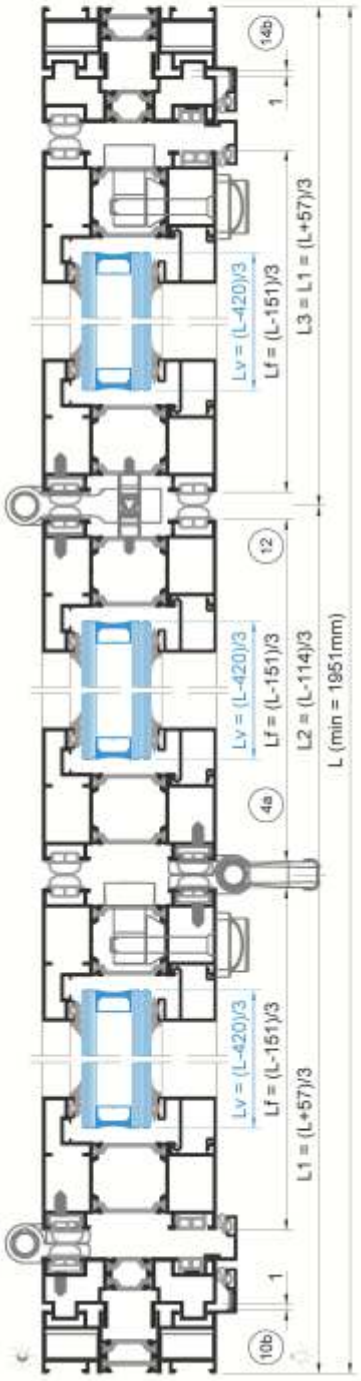
- **220**



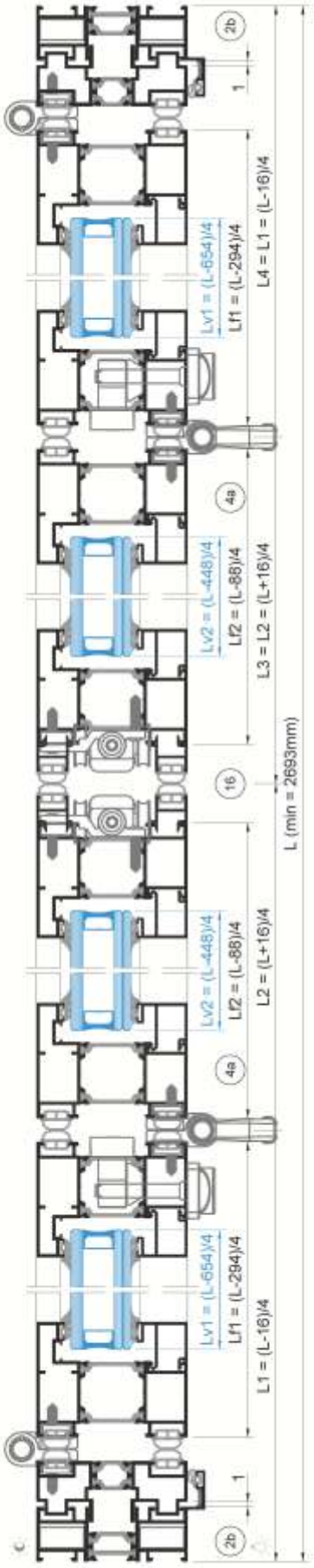
- **321 com NHT.82**

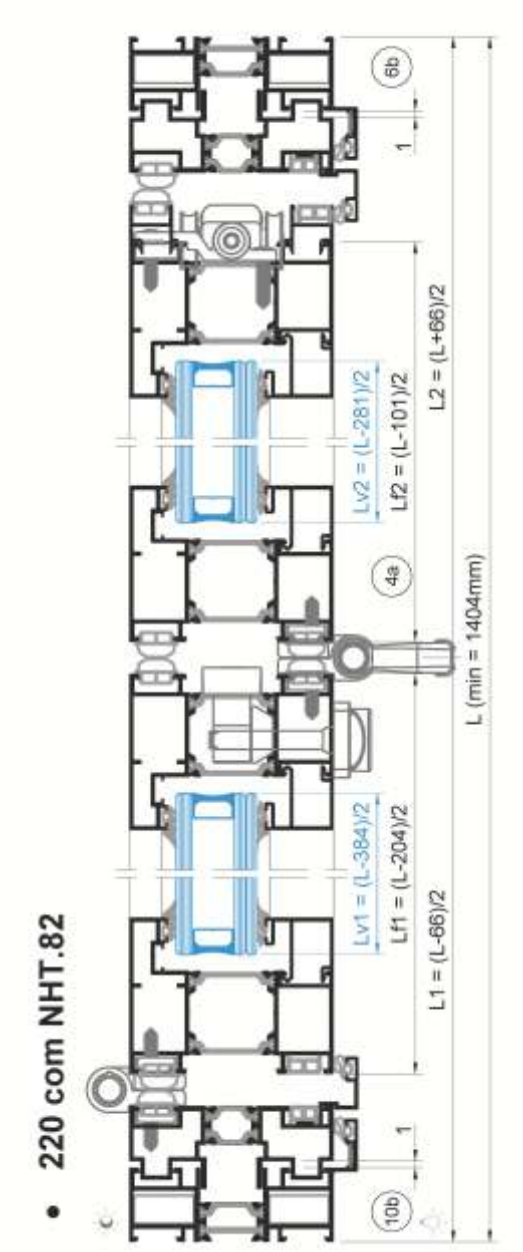


- 330 com NHT.82



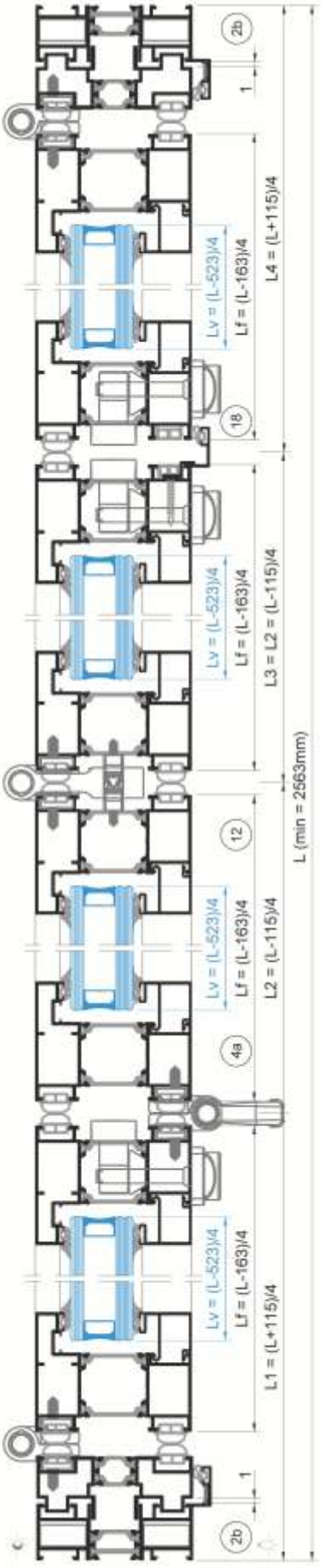
- 422 com NHT.82



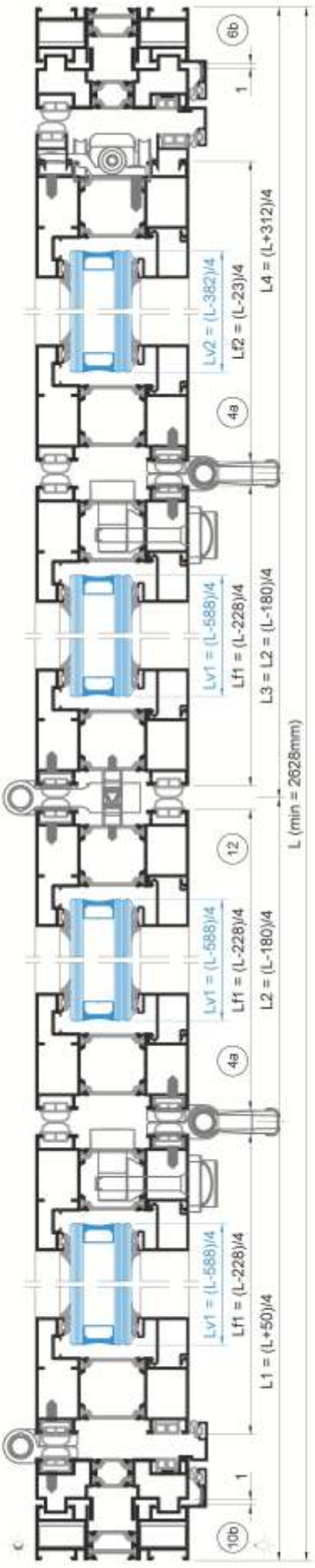

• 220 com NHT.82
10b
1
6b
1
Lv1 = (L-384)/2
Lf1 = (L-204)/2
L1 = (L-66)/2
Lv2 = (L-281)/2
Lf2 = (L-101)/2
L2 = (L+66)/2
4a
L (min = 1404mm)

PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA EXTERIOR

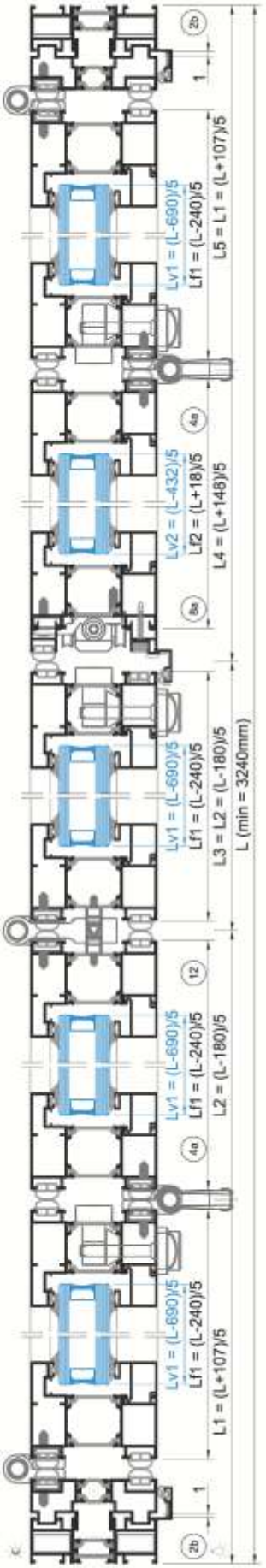
- 431 com NHT.82



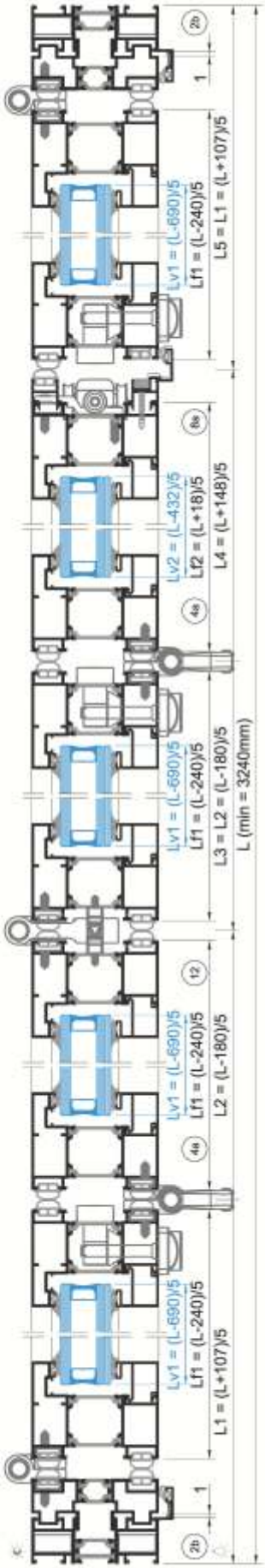
- 440 com NHT.82



- 532 com NHT.82

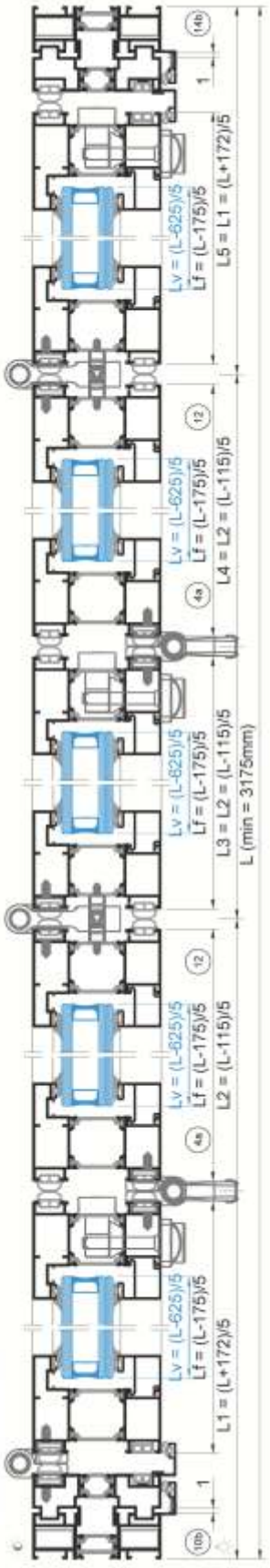


- 541 com NHT.82

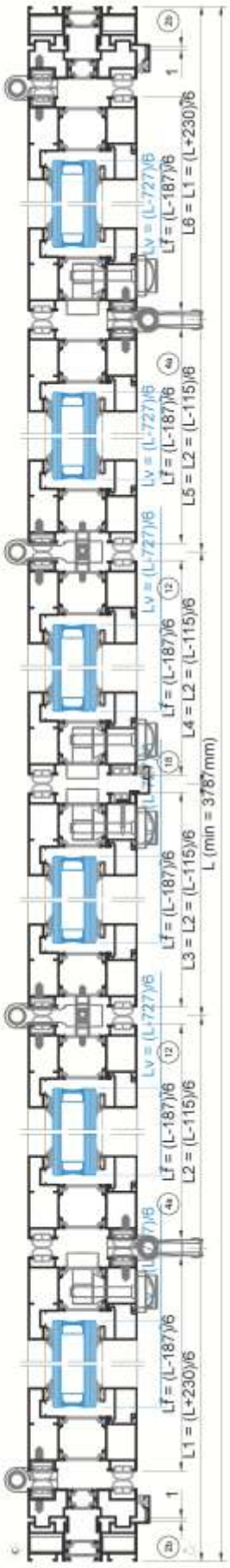


PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA EXTERIOR

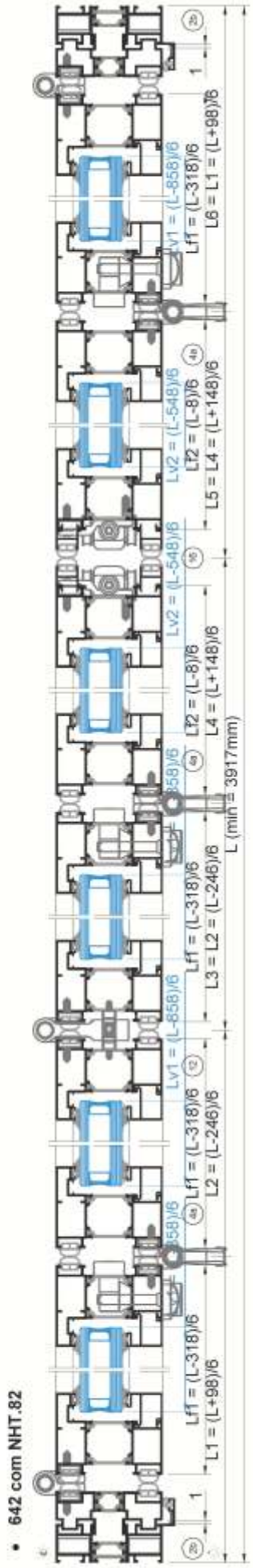
- 550 com NHT.82



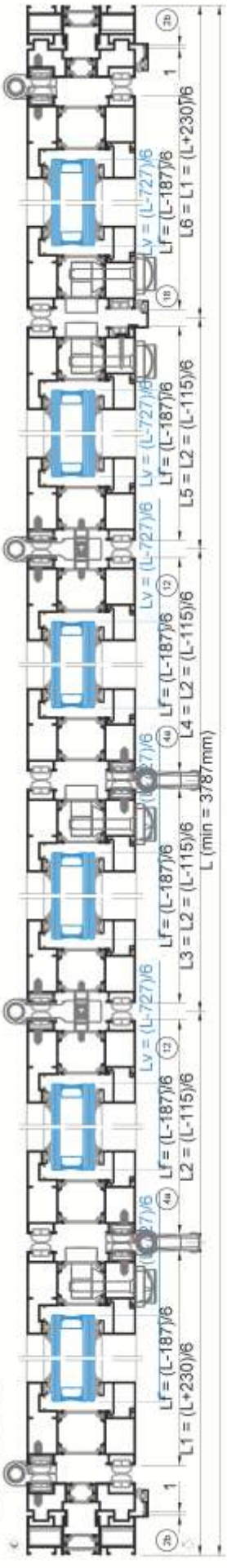
- 633 com NHT.82



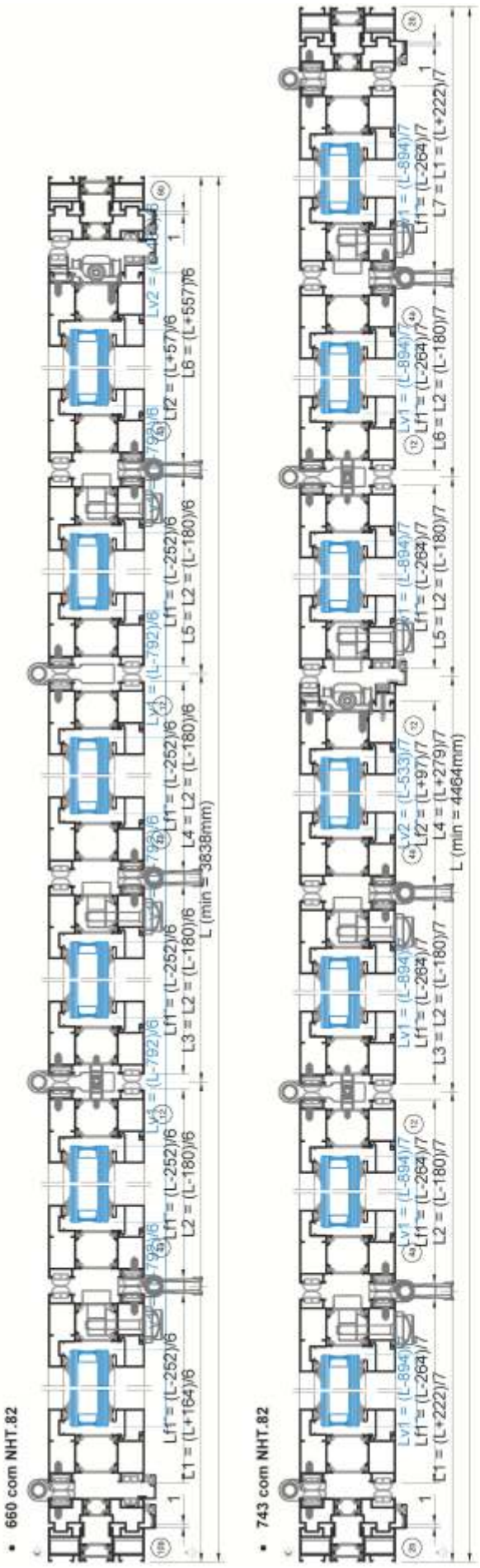
• 642 com NHT.82

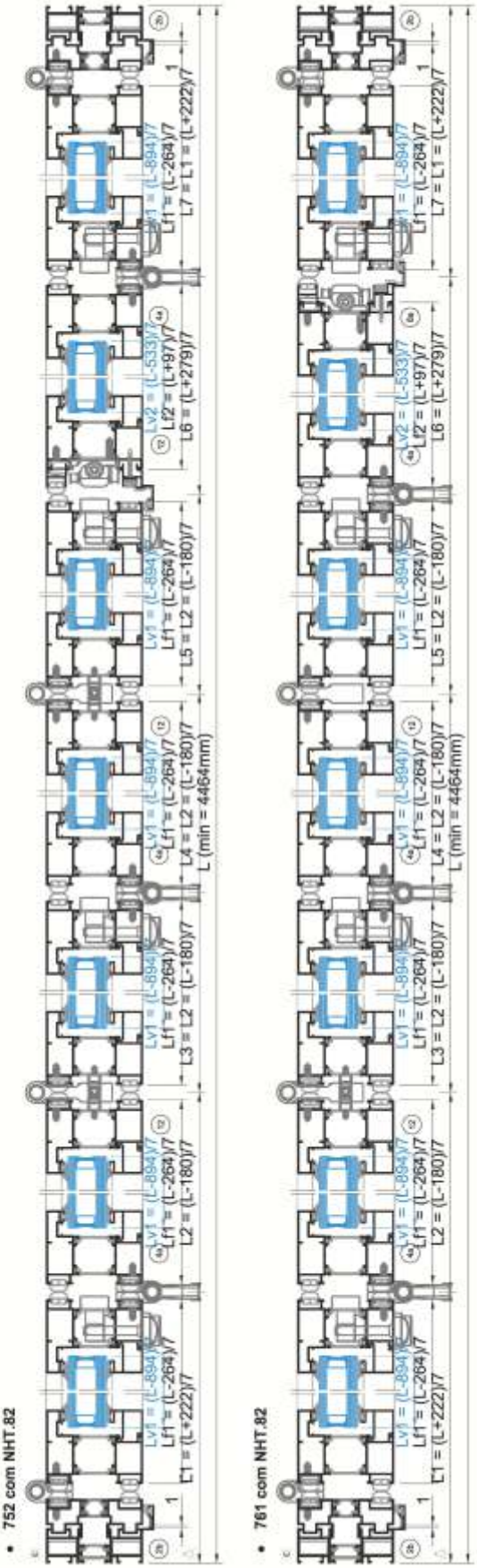


• 651 com NHT.82

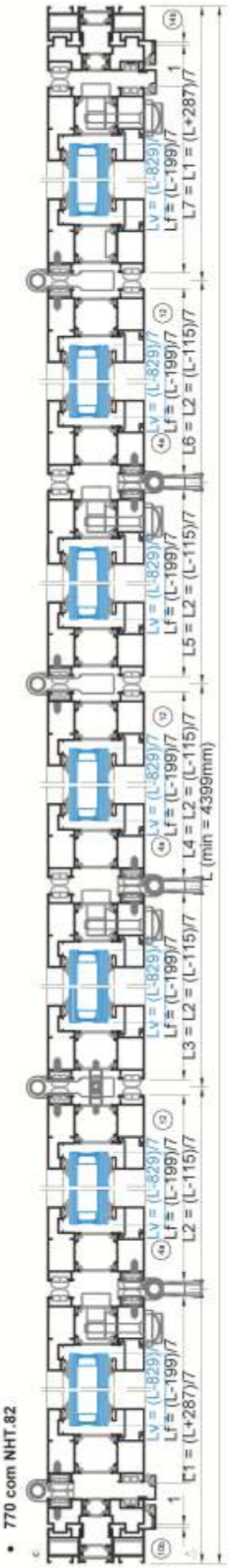


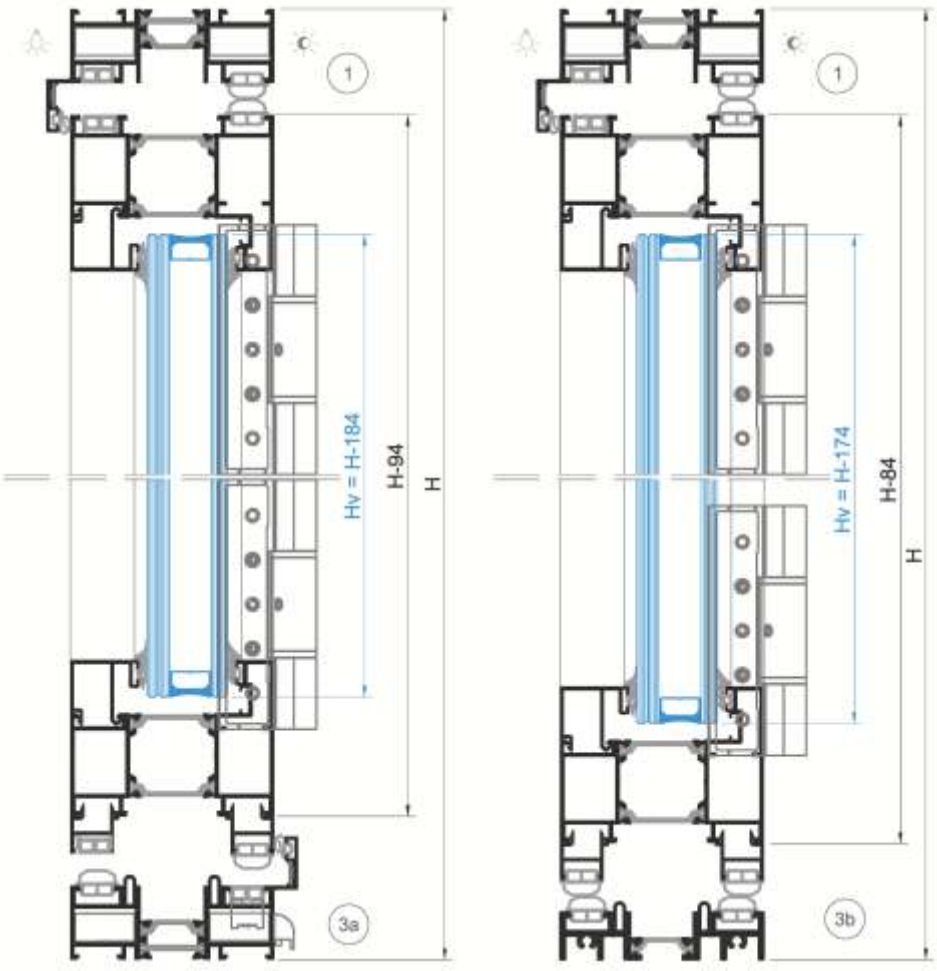
PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA EXTERIOR




• 752 com NHT.82
L1 = (L+222)/7
Lf1 = (L-264)/7
L2 = (L-180)/7
Lv1 = (L-894)/7
L3 = L2 = (L-180)/7
Lf1 = (L-264)/7
L4 = L2 = (L-180)/7
Lv1 = (L-894)/7
Lf1 = (L-264)/7
L5 = L2 = (L-180)/7
Lv1 = (L-894)/7
Lf1 = (L-264)/7
L6 = (L+279)/7
Lv2 = (L-533)/7
Lf2 = (L+97)/7
L7 = L1 = (L+222)/7
L (min = 4464mm)
• 761 com NHT.82
L1 = (L+222)/7
Lf1 = (L-264)/7
L2 = (L-180)/7
Lv1 = (L-894)/7
L3 = L2 = (L-180)/7
Lf1 = (L-264)/7
L4 = L2 = (L-180)/7
Lv1 = (L-894)/7
Lf1 = (L-264)/7
L5 = L2 = (L-180)/7
Lv1 = (L-894)/7
Lf1 = (L-264)/7
L6 = (L+279)/7
Lv2 = (L-533)/7
Lf2 = (L+97)/7
L7 = L1 = (L+222)/7
L (min = 4464mm)

PORMENORES DE ACORDO COM AS TIPOLOGIAS - ABERTURA EXTERIOR




1
Hv = H-184
H-94
H
3a
1
Hv = H-174
H-84
H
3b

SÉRIE NHT

NORTALU®

Rua Dr. José Bragança Tavares, 78 Fr. A
4580-593 Paredes (Mouriz)
255 781 548/49
92 705 80 65
nortalu@nortalu.com

TRIAL Aluminium System

Trial Aluminium System - Zona Industrial Achada Grande Trás
(+238) 2631056
(+238) 263 1058
(+238) 9189881
geral.trial@nortalu.com