

Sistema

UNION[®]

MANUAL TÉCNICO

Esquadrias Convencionais



Construção Civil - 1ª Edição
Junho - 2018



PERFIL

O ALUMÍNIO DO BRASIL





EXTRUSÃO - ANODIZAÇÃO - PINTURA



ATENÇÃO

Observe as Instruções e Recomendações do Manual Técnico

Este Manual é parte integrante do Sistema Construtivo em Alumínio Unnion desenvolvido pela Perfil Alumínio do Brasil S.A. e contém as informações para o correto procedimento de fabricação e montagem das peças de Esquadrias.

-  A fabricação e instalação de Esquadrias em alumínio devem ser conduzidas por profissionais com reconhecida experiência no mercado.
-  A composição das peças de Esquadrias e ou Fachadas devem obedecer rigorosamente as orientações e recomendações constantes neste Manual Técnico. Eventuais dúvidas ou necessidade de informações adicionais devem ser solicitadas por escrito ao corpo técnico da Perfil Alumínio do Brasil S.A.
-  A Legislação Brasileira estabelece que elementos aplicados à Construção Civil requer ciência, acompanhamento e responsabilidade técnica de Engenheiro Civil Pleno, devidamente graduado.
-  A Perfil Alumínio do Brasil S.A. não se responsabiliza pelos desdobramentos do uso indevido dos perfis, montagem, instalação e ou quaisquer outras formas de aplicação das peças, que não obedeçam rigorosamente as recomendações deste Manual Técnico.

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COMPLEXO INDUSTRIAL VIANA - ES

Mais de 20 mil m² de área construída

Criada em 1995, a **Perfil Alumínio** tem conquistado ao longo dos anos, destaque reconhecido entre as **melhores empresas** do setor.

Em **perfeita sintonia** com um mercado extremamente exigente, a Perfil Alumínio do Brasil S.A. desafia o óbvio e estabelece um novo paradigma de atendimento, com operações centralizadas na capital do estado do Espírito Santo.

Com unidades instaladas em **Vila Velha** e **Viana**, ambas na região metropolitana de Vitória (ES) a empresa emplaca a estratégia de ocupar espaços fora do eixo Rio-São Paulo, estabelecendo assim uma **excelente opção de abastecimento de perfis extrudados de alumínio** para os principais mercados emergentes do país.



Viana
2013



Vila Velha
1995



Vila Velha
2017

VALORES ESTRATÉGICOS

ATENDER AS NECESSIDADES DOS CLIENTES ATRAVÉS DE SOLUÇÕES EM ALUMÍNIO E PRODUTOS PARA CONSTRUÇÃO CIVIL, INDÚSTRIAS, ENERGIA SOLAR, SETORES DE TRANSPORTES E MOVELEIRO, DESENVOLVENDO PARCERIAS DURADOURAS.



SER A MELHOR EMPRESA DO BRASIL NO SEGMENTO DE EXTRUDADOS DE ALUMÍNIO E TRATAMENTO DE SUPERFÍCIE.

CONCEITOS QUE CREMOS E DEFENDEMOS

CLIENTES
COMPROMISSO NO ATENDIMENTO E NA SATISFAÇÃO DOS CLIENTES
PAIXÃO
PAIXÃO PELO QUE FAZEMOS
ÉTICA
DESENVOLVER RELAÇÕES DE CONFIANÇA, PAUTADAS NA RESPONSABILIDADE E TRANSPARÊNCIA DAS ATITUDES
VALORIZAÇÃO DAS PESSOAS
RESPEITO ÀS PESSOAS; TRABALHO EM EQUIPE RECONHECIMENTO DO TRABALHO
PARCERIAS DURADOURAS
PARCERIAS COM CLIENTES, FORNECEDORES E COLABORADORES
PONTUALIDADE
CUMPRIMENTO DOS PRAZOS ESTABELECIDOS AOS CLIENTES PONTUALIDADE COM OS FORNECEDORES
SUSTENTABILIDADE
RESPONSABILIDADE SOCIAL, ECONÔMICA E AMBIENTAL
EMPREENDEDORISMO
CRESCER COM CORAGEM PARA FAZER, INOVAR E INVESTIR

EXTRUSÃO

Linha Automática Completa

SISTEMA EFICIENTE E EQUIPE
ALTAMENTE PREPARADA

TOTALMENTE PLANEJADA - P20 DE 7"

- 2.000 TON. DE FORÇA, BILLETS 178 MM
- PRINCIPAIS LIGAS DE TÊMPERAS
- MESA DE SAÍDA, HANDLING DE 50 METROS DE COMPRIMENTO
- ESTICADEIRA COM CORREÇÃO ELETRÔNICA (TRACK LOS)
- PERFIS COMPLEXOS E COM MEDIDAS ESPECIAIS
- FORNO DE 16 METROS
- DEPARTAMENTO DE PROJETOS E DESENVOLVIMENTO DE FERRAMENTAS
- PERFIS DE GRANDES DIMENSÕES
- SUPERFÍCIES CONSTANTES E PRECISÃO DIMENSIONAL

PERFIS DESTINADOS A TODAS
AS APLICAÇÕES:

- CONSTRUÇÃO CIVIL
- INDÚSTRIA E PEÇAS
- LINHA MOVELEIRA
- SETOR DE TRANSPORTES
- ENERGIA SOLAR

FERRAMENTARIA
DE CORREÇÃO E
NITRETAÇÃO PRÓPRIA

ANODIZAÇÃO

Tratamento de Superfície



PROCESSOS TECNOLÓGICOS E PADRÃO MUNDIAL

- TRATAMENTO ANÓDICO POR IMERSÃO (FLASH ANODIZING)
- CAPACIDADE PARA 600 TON./MÊS
- PERFIS COM ATÉ 6,8 METROS
- GARANTIA ASSEGURADA DE 5 ANOS
- PROCESSO HOMOLOGADO POR INSTITUTOS OFICIAIS
- 28 TANQUES SEQUENCIAIS
- TONALIDADES FIRMES COM SELAGEM INSTANTÂNEA
- OPÇÃO DE ACABAMENTO ACETINADO
- ALTA FIDELIDADE AOS PADRÕES DAS TEXTURAS

CARACTERÍSTICAS

CAMADA ANÓDICA

SOLIDEZ E LUZ (UV)

SELAGEM

CORROSÃO ATMOSFÉRICA

MÉTODO DE ENSAIO

NBR 12610, ASTM-B 244 (Eddy Current)

NBR 12612, ISO 6581, ASTM-G 26/77

NBR 9423, ISO 3210 (Pedra de massa)
NBR 12613, ISO 2143, ASTM-B 136

NBR 8094, ASTM-B 117 (Salt Spray)

LABORATÓRIO PRÓPRIO
CONTROLE DE PROCESSOS,
QUALIDADE E SERVIÇO



PINTURA

Cabine de Pintura Eletrostática

SISTEMA POWDER COAT

CABINE LINEAR CONTÍNUA

- CAPACIDADE PARA 600 TON./MÊS
- PERFIS DE ATÉ 7 METROS
- PADRÃO DE CORES RAL
- PROCEDIMENTO QUALICOAT
- BRITISH STANDART 6496
- ABNT 14125 E NORMAS COMPLEMENTARES
- RIGOROSA GESTÃO DA QUALIDADE - PERFIL
- SECAGEM INFRA-RED
- MAIOR E MELHOR ADERÊNCIA DE LAVAGEM
- PROCESSO NORMATIZADO E CERTIFICADO
- AMPLA GAMA DE CORES E TEXTURAS
- ACABAMENTO PERFEITO

A DISTRIBUIÇÃO PELO EFEITO CORONA E A SECAGEM INFRAVERMELHO POR MICRO-ONDAS PERMITEM MELHOR ADERÊNCIA EM UM ASPECTO ESTÉTICO MAIS SOFISTICADO.

NOVA CABINE DE PINTURA VERTICAL

EM 2018

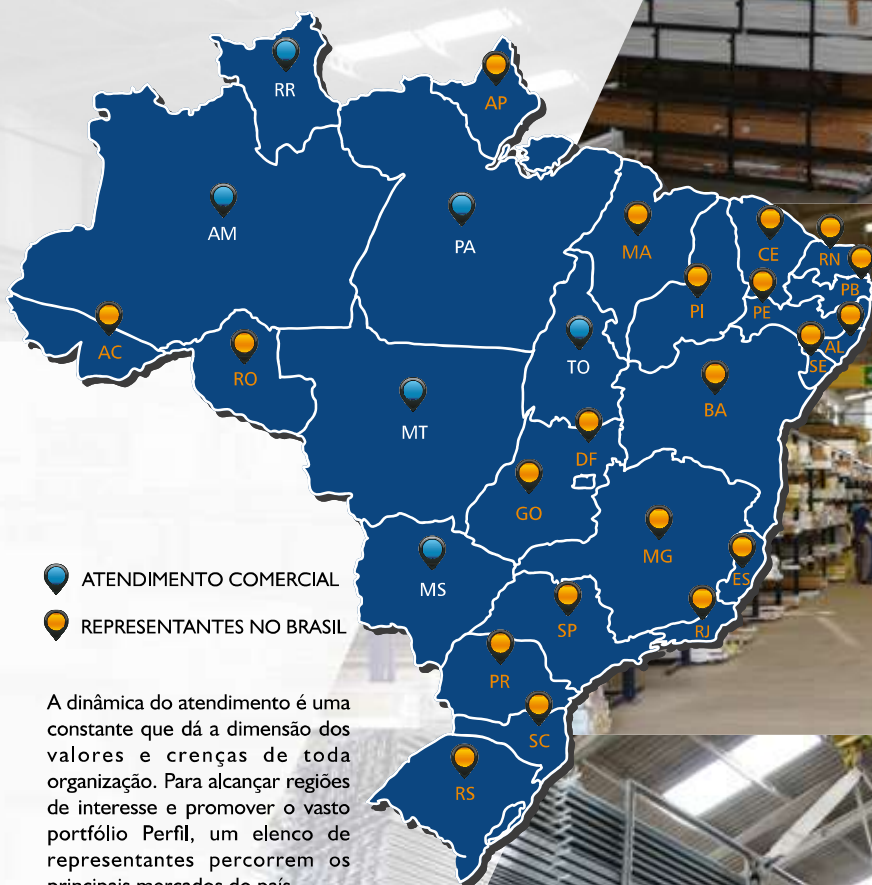


DISTRIBUIÇÃO

Estoque à Pronta Entrega

PLANEJAMENTO E LOGÍSTICA
PARA UM COMPLETO ATENDIMENTO

ATENDIMENTO PARA
TODO O BRASIL



- ATENDIMENTO COMERCIAL
- REPRESENTANTES NO BRASIL

A dinâmica do atendimento é uma constante que dá a dimensão dos valores e crenças de toda organização. Para alcançar regiões de interesse e promover o vasto portfólio Perfil, um elenco de representantes percorrem os principais mercados do país.

- Perfis de Alumínio e materiais construtivos
- 6 mil m² de armazenagem
- Mais de 4 mil itens em estoque
- Opção de perfis in natura, pintados ou anodizados
- Todas as linhas abertas e convencionais
- Acessórios e componentes



CTP - CENTRO DE TREINAMENTO

Na unidade de Vila Velha, fica o showroom com os principais sistemas e também a nova câmara de teste de estanqueidade à água.



Além de cuidar da inteligência conceitual, a Perfil adotou uma postura de interação presencial em relação aos fabricantes de esquadrias e serralheiros. O tratamento com esse público é de incrível estima. O Centro de Distribuição em Vila Velha, passou por uma remodelação total e o ambiente foi redecorado para oferecer mais conforto aos clientes. Em outra esfera, o CTP é a base para que novas tecnologias, produtos e serviços tomem forma em caráter oficial. A formação profissional, a cooperação das parcerias, são formalizadas em eventos de atualização e cursos técnicos regulares.

DEPARTAMENTO TÉCNICO

O ponto forte da Perfil Alumínio é seu departamento de suporte, com toda uma estrutura de engenheiros, arquitetos, projetistas e orçamentistas, disponíveis para oferecer respostas rápidas aos clientes.

Um corpo técnico capaz de dialogar em nível de igualdade com grandes construtoras e empreiteiras do país, com amplo conhecimento e total domínio de sistemas construtivos destinados a fechamento de vãos e coberturas.

Tudo funciona como uma consultoria, a equipe técnica faz projetos de esquadrias, dimensiona a aplicação de componentes, ministra treinamentos e orienta especificadores de obras.

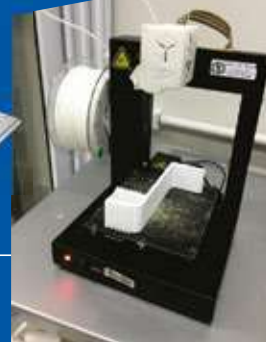


SUORTE TÉCNICO

Detalhamentos em 3D



Impressora 3D



SISTEMAS CONSTRUTIVOS EXCLUSIVOS



Atendem as normas ABNT
NBR 10.821, NBR 15.575 e NBR 14.718

Sistemas para: Caixilhos, Fachadas, Guarda-Corpos,
Energia Solar, Setor de Transportes e Moveleiro

DESEMPENHO
ACÚSTICO



DESEMPENHO DE
ESTANQUEIDADE
À AGUA



DESEMPENHO DE
PERMEABILIDADE
AO AR



DESEMPENHO
ESTRUTURAL



Testados em:



EcoLine 1.6[®]

O produto da habitação social

EcoLine 2.5[®]

Esquadrias convencionais

UNION[®]

Esquadrias convencionais

chroma[®]

Esquadrias de alto padrão

EuroSHOW[®]

Câmara Européia
Alçante

CUST·K[®]

Janela Acústica para todos

GradLine[®]

Gradis, Guarda-corpos e Portões

ECOGRID[®]

Fachada Grid

EcoStick[®]

Fachada Stick

WALLFrame[®]

Fachada Unitizada

PERFILBond[®]

Painel de Alumínio Composto

PERFILSOLAR[®]

Sistemas de Estruturas de alumínio
para fixação de painel fotovoltaico

MOVELEIRA

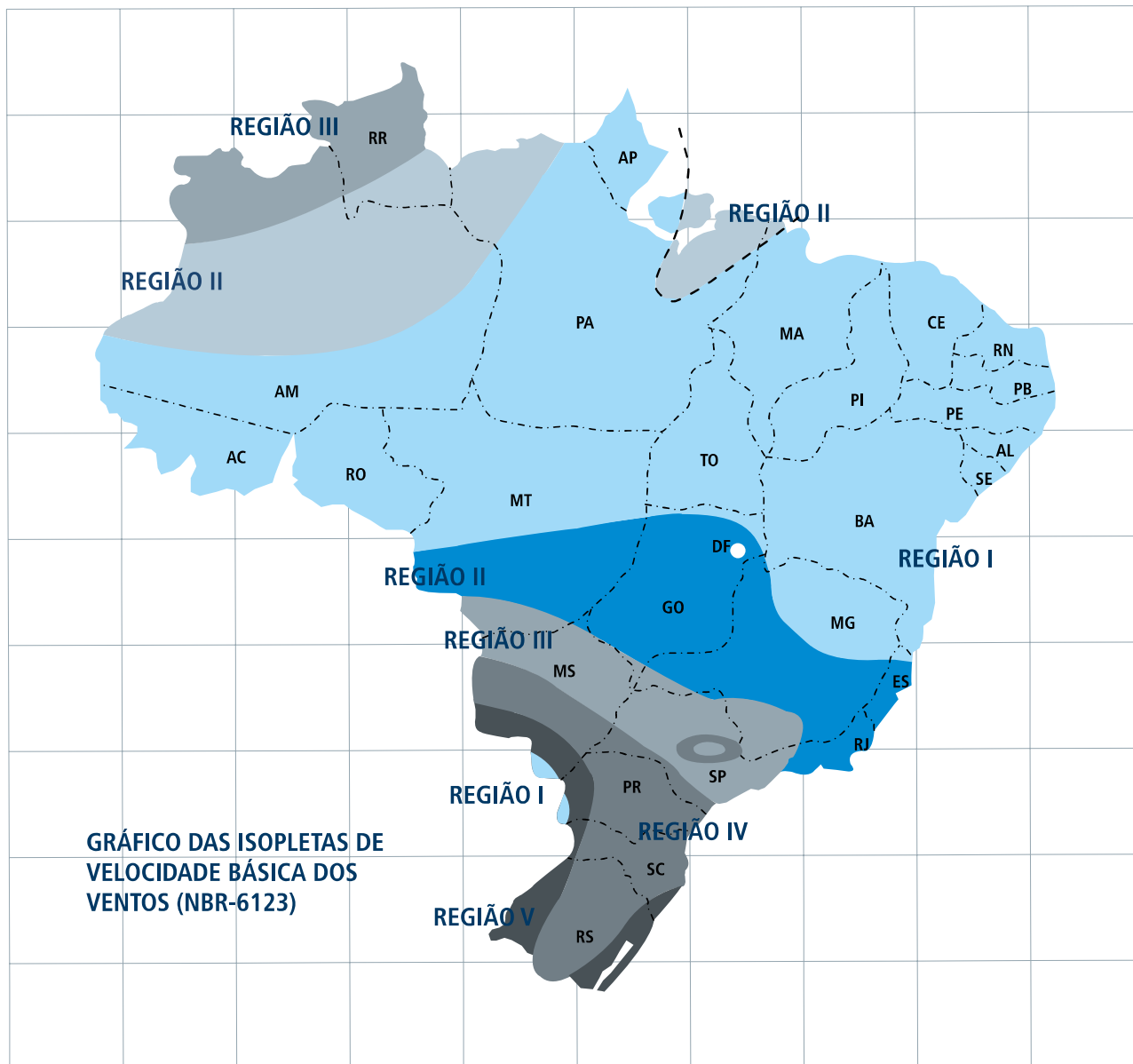
Perfis de alumínio para móveis

IMPLEMENTOS
RODOVIÁRIOS

Perfis de alumínio para transportes

Determinação da pressão de ventos que deve ser aplicada na esquadria conforme o local da edificação

1. Identifique no Mapa das Isopletas, a velocidade dos ventos característica da região da edificação.



Região		velocidade		pressão	
		m/s	km/h	kg/m ²	PA
	I	30	108	77	756
	II	35	126	105	1030
	III	40	144	137	1345
	IV	45	162	173	1698
	V	50	180	214	2100

Nota: adotado para cálculo escala internacional de **BEAUFORT**

2. Com a Região encontrada no gráfico das isopletas, verifique na tabela abaixo a Pressão de Ensaio compatível com a Altura ou Quantidade de pavimentos de sua edificação (Atenção: ver nota "A" abaixo);

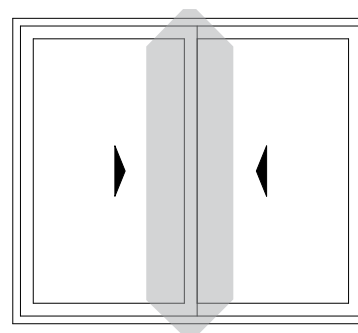
Tabela de pressão de ensaio para cargas uniformemente distribuídas					
Quantidade de pavimentos	Altura máxima	Região do País	Pressão de ensaio P_e , em (Pa) Positiva e negativa $P_e = P_p \times 1,2$	Pressão de segurança P_s , em (Pa) Positiva e negativa $P_s = P_e \times 1,5$	Pressão de água P_a , em (Pa) $P_a = P_p \times 0,20$
02	6 m	I	350	520	60
		II	470	700	80
		III	610	920	100
		IV	770	1160	130
		V	950	1430	160
05	15 m	I	420	640	70
		II	580	860	100
		III	750	1130	130
		IV	950	1430	160
		V	1180	1760	200
10	30 m	I	500	750	80
		II	680	1030	110
		III	890	1340	150
		IV	1130	1700	190
		V	1400	2090	230
20	60 m	I	600	900	100
		II	815	1220	140
		III	1060	1600	180
		IV	1350	2020	220
		V	1660	2500	280
30	90 m	I	660	980	110
		II	890	1340	150
		III	1170	1750	200
		IV	1480	2210	250
		V	1820	2730	300

3. Com a "Pressão de Ensaio" encontrada, é possível verificar nas páginas dos "Gráficos de Desempenho", as medidas máximas de largura e altura para as tipologias existentes em sua edificação. Para isso, ligue o eixo de largura ou de altura na curva referente à pressão de ensaio requerida e verifique a dimensão máxima correspondente (Atenção: ver nota "B" abaixo).

NOTAS:

- Para os edifícios com especificações, localização, necessidades e exigências especiais de utilização, deve ser consultada a norma **ABNT NBR-6123** para a determinação da "Pressão de Ensaio" (P_e) a ser adotada, prevalecendo como mínimos os valores da tabela acima. Fachadas cortinas e coberturas também devem ser projetadas e especificadas, quanto às pressões de vento, conforme a **ABNT NBR-6123**. Os projetos e cálculos estruturais pertinentes a estas tipologias devem ser assumidos por profissional técnico habilitado;
- Nos gráficos de desempenho a seguir, foram considerados os valores de "Pressão de Ensaio" e "Pressão de Segurança", de acordo com a norma **ABNT NBR-10821**, para fachadas entre vãos;
- A espessura mínima do vidro deve ser calculada utilizando-se o valor da "Pressão de Segurança" requerida para a esquadria (para maiores informações consultar a **ABNT NBR-10821 - Partes 2 e 3**).

JANELA DE CORRER 2 FOLHAS



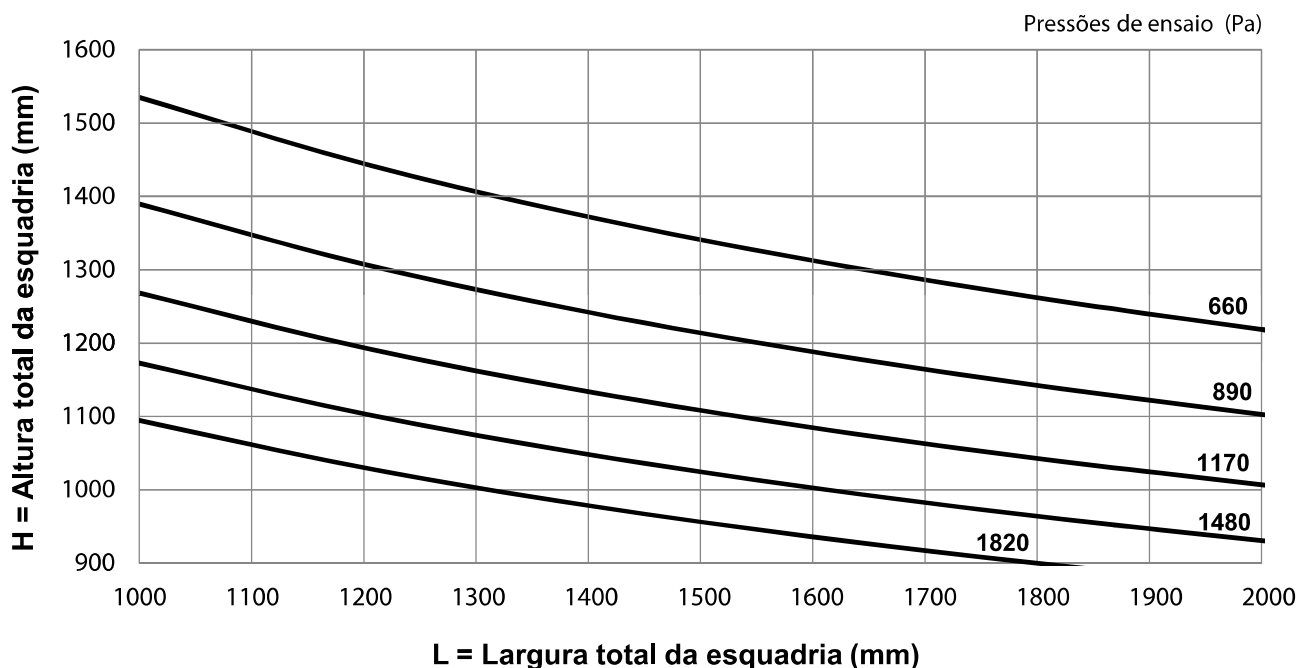
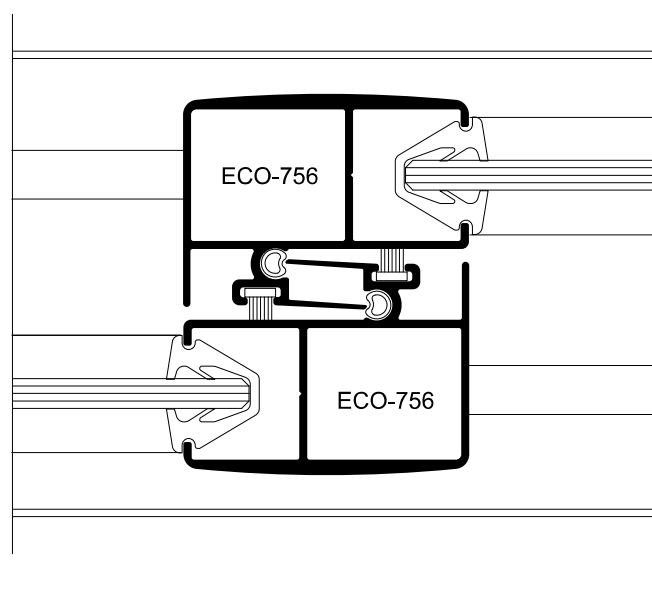
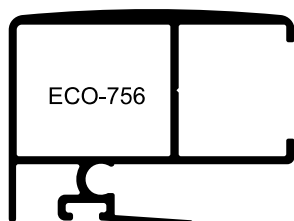
ELEVAÇÃO SEM ESCALA

PERFIL	CONJUNTO
Jx: 1,9820 cm ⁴	Jx: 3,9640 cm ⁴
Jy: 2,4148 cm ⁴	Jy: 4,8296 cm ⁴
Wx: 1,1932 cm ³	Wx: 2,3864 cm ³
Wy: 1,0858 cm ³	Wy: 2,1716 cm ³

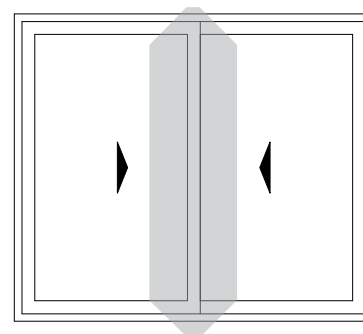
Centroid:

X: 2,2240 cm

Y: 1,6610 cm



JANELA DE CORRER 2 FOLHAS



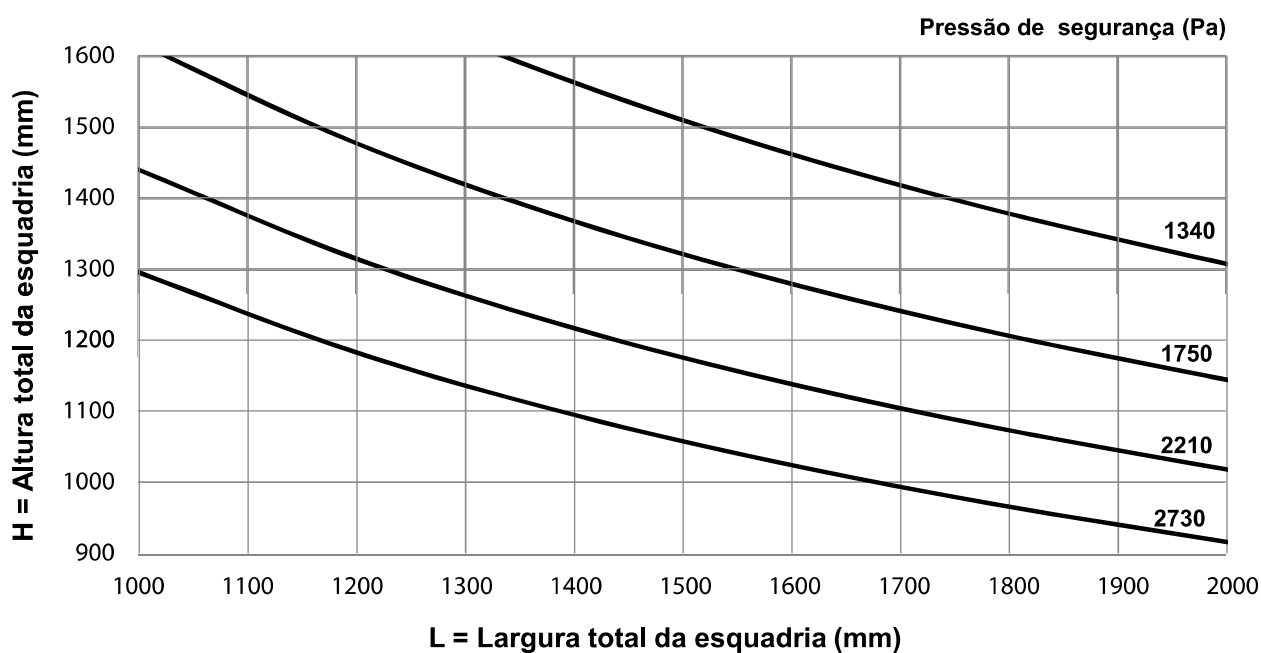
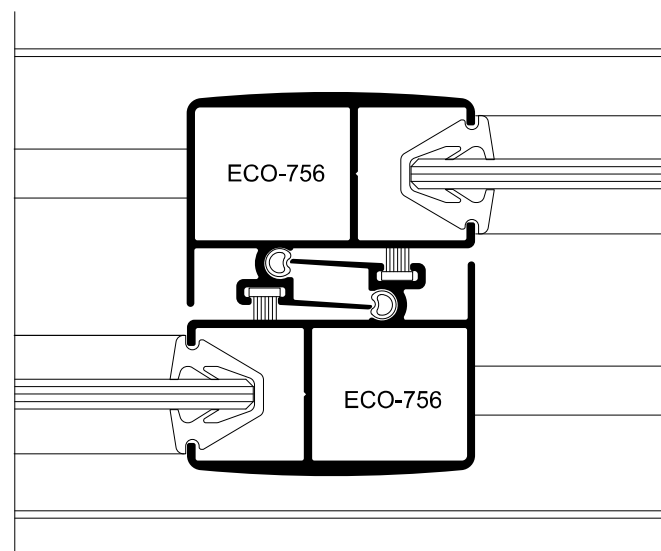
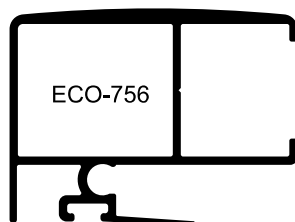
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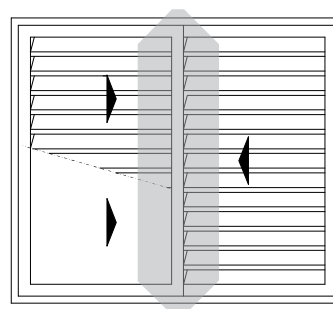
X: 2,2240 cm

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JANELA DE CORRER 3 PLANOS VENEZIANA

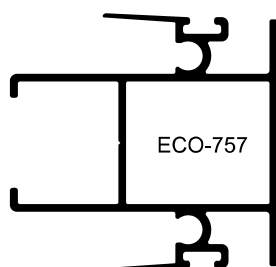
PERFIL	CONJUNTO
Jx: 2,8231 cm ⁴	Jx: 6,7871 cm ⁴
Jy: 2,5178 cm ⁴	Jy: 7,3474 cm ⁴
Wx: 1,5036 cm ³	Wx: 3,8900 cm ³
Wy: 1,0574 cm ³	Wy: 3,2290 cm ³



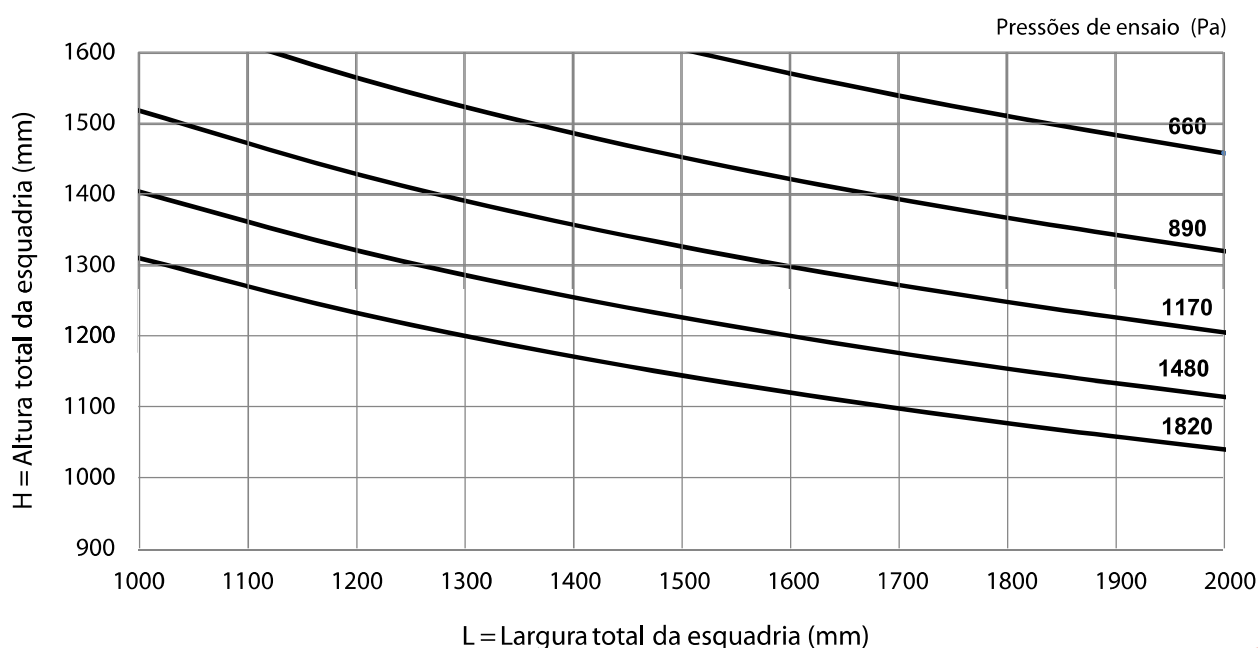
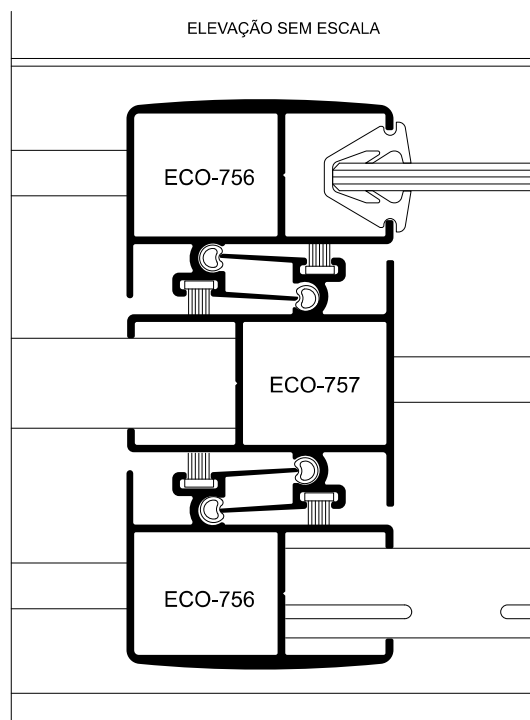
Centroid:

X: 2,3811 cm

Y: 1,8776 cm

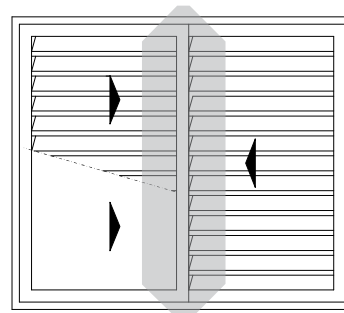


ELEVAÇÃO SEM ESCALA



JANELA DE CORRER 3 PLANOS VENEZIANA

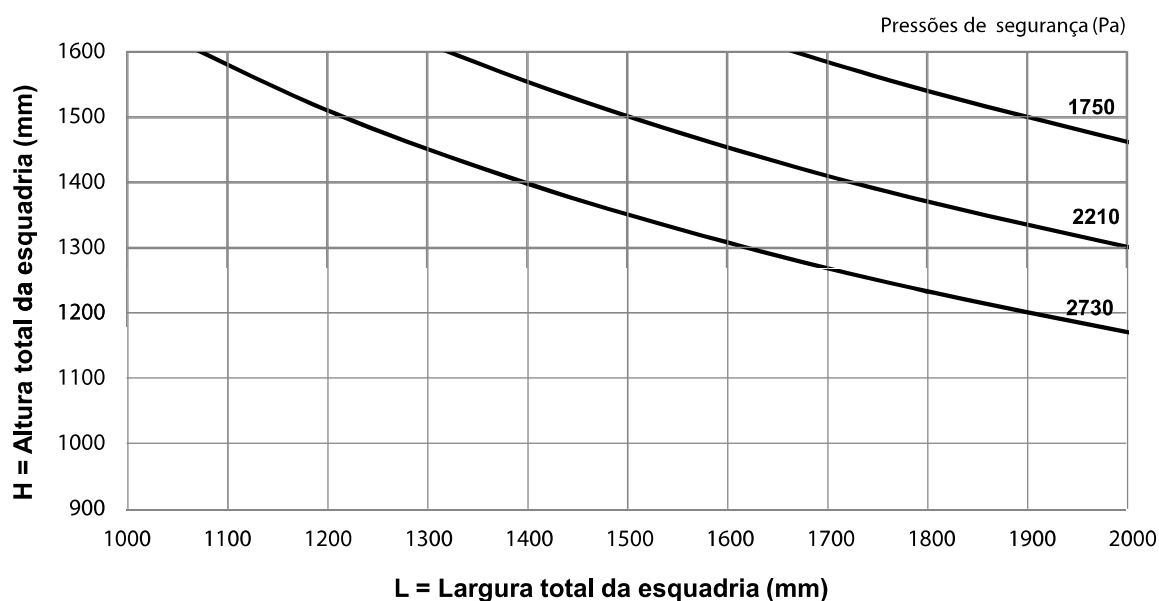
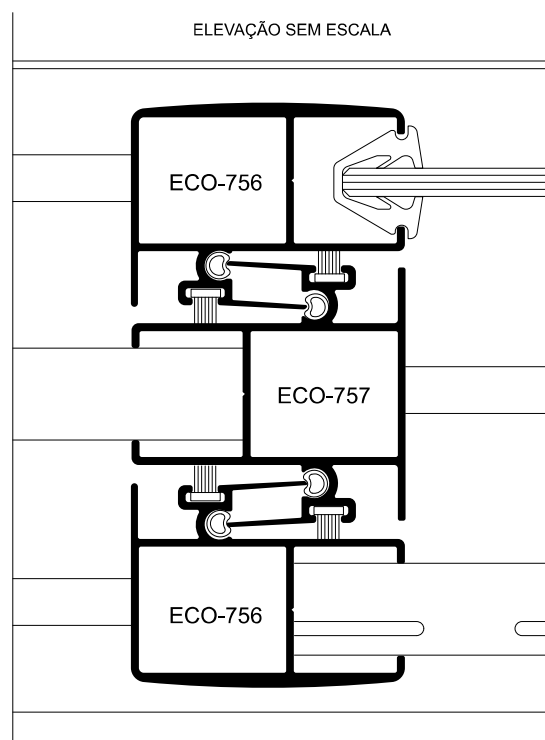
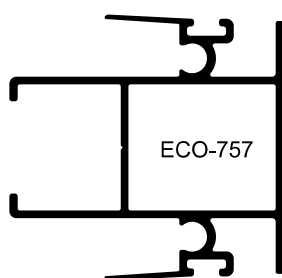
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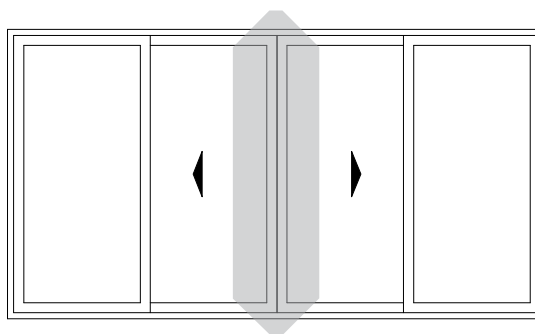
Centroid:

X: 2,3811 cm

Y: 1,8776 cm



JANELA DE CORRER 4 FOLHAS



ELEVAÇÃO SEM ESCALA

PERFIL

Jx: 1,1900 cm⁴

Jy: 3,3491 cm⁴

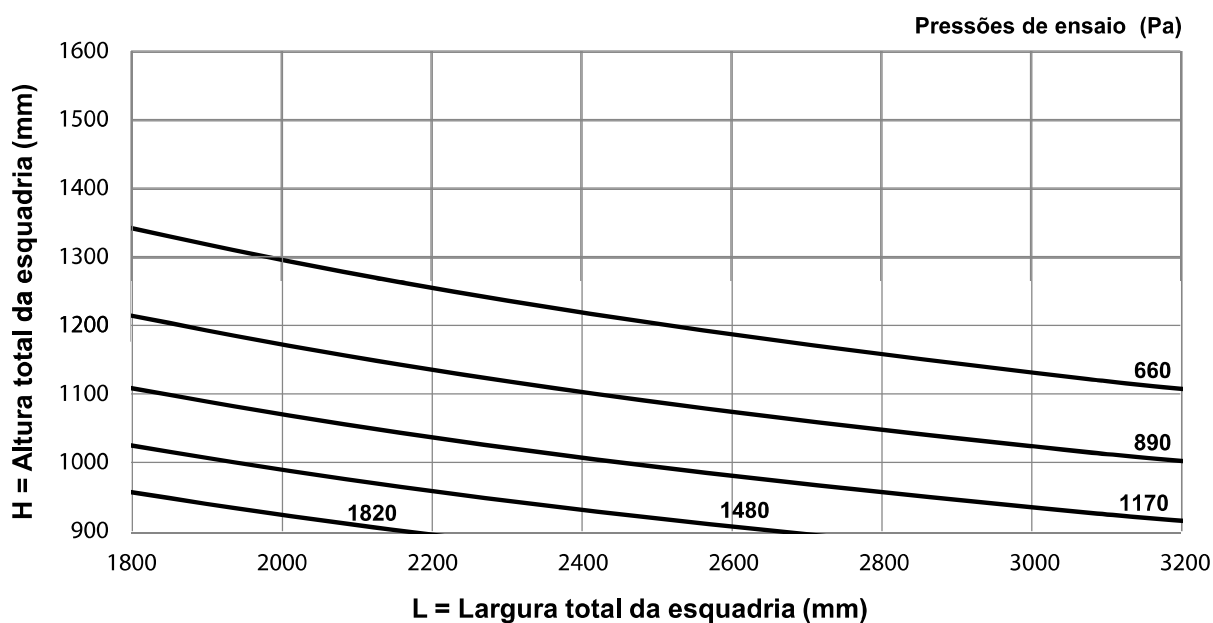
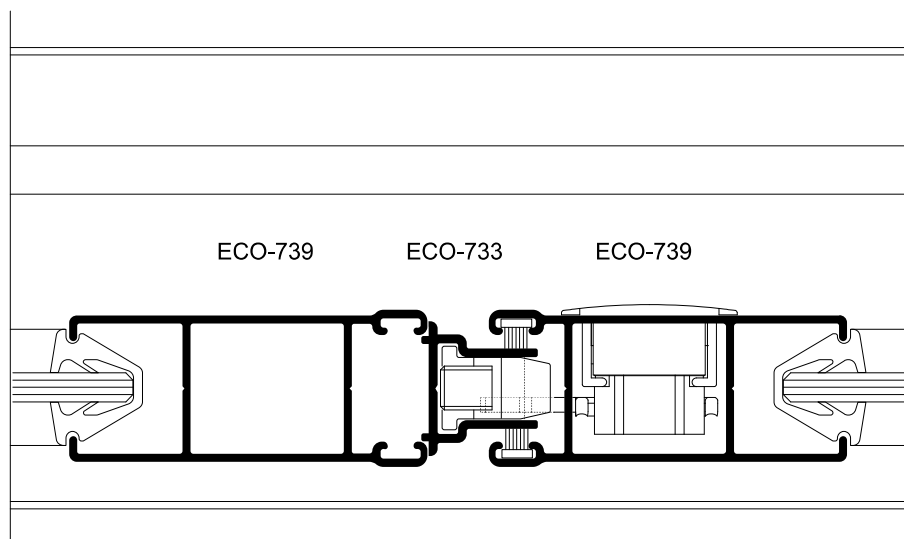
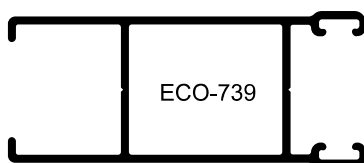
Wx: 1,1076 cm³

Wy: 1,2989 cm³

Centroid:

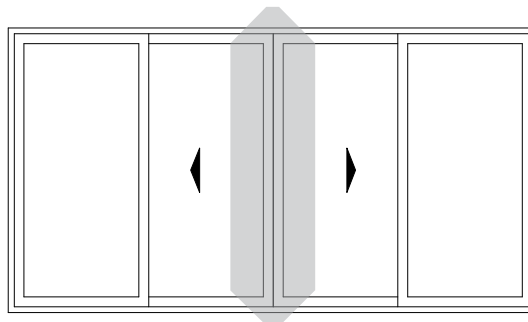
X: 2,5785 cm

Y: 1,0744 cm



PERFIL, PROJETOS, CÓDIGOS E SISTEMAS ESTÃO SUJEITOS A ALTERAÇÃO SEM AVISO PRÉVIO.

JANELA DE CORRER 4 FOLHAS



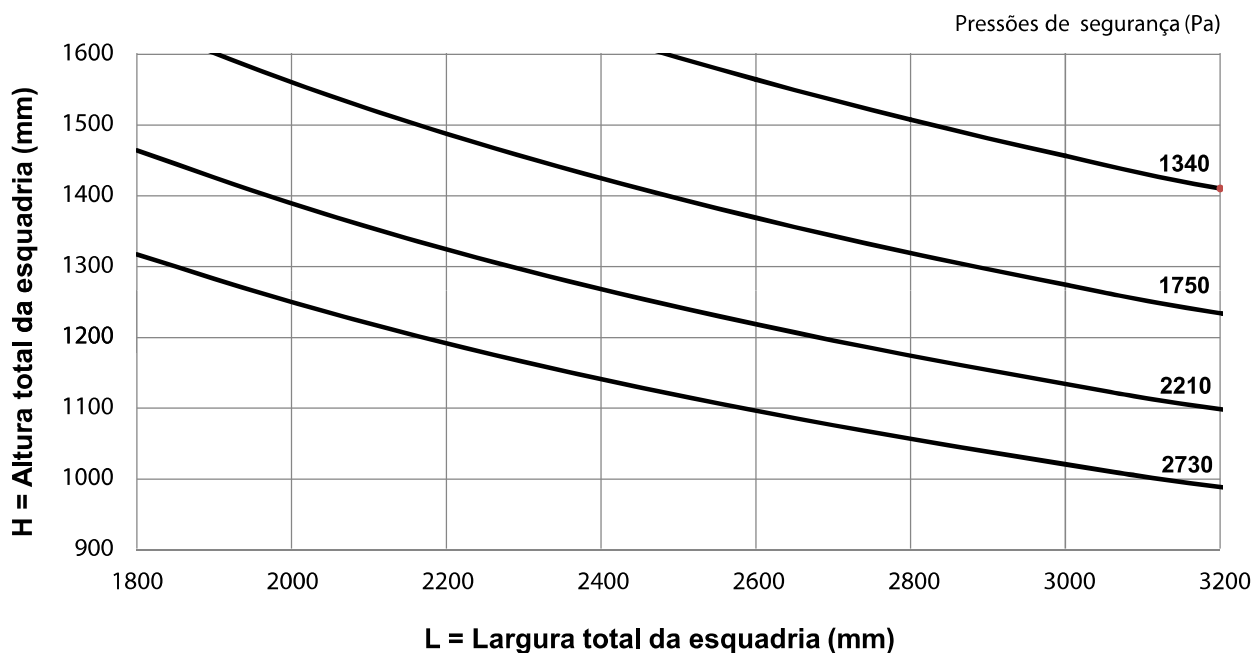
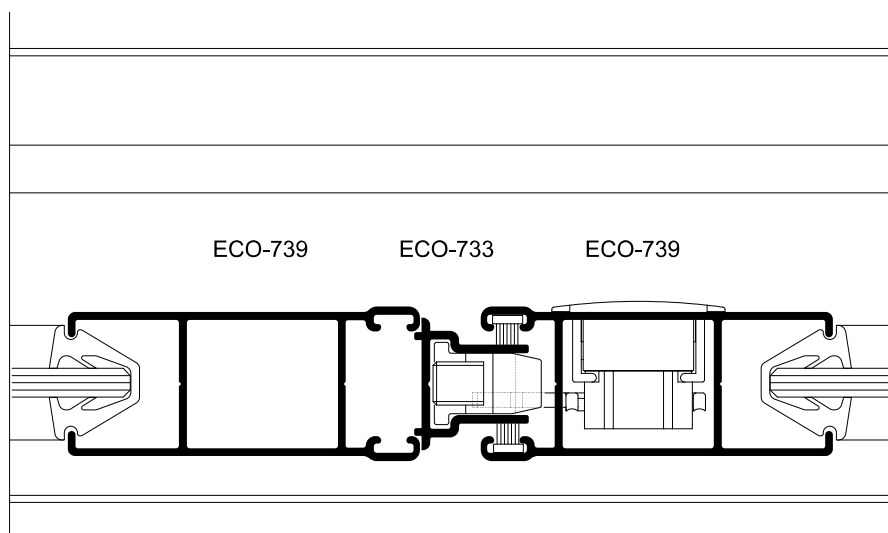
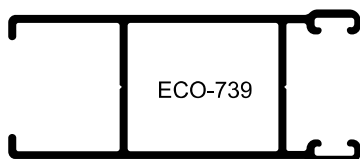
ELEVAÇÃO SEM ESCALA

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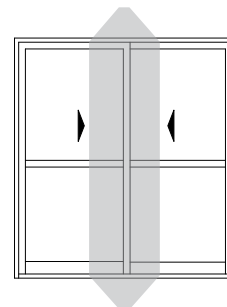
X: 2,5785 cm

Y: 1,0744 cm



PORTA DE CORRER 2 FOLHAS

PERFIL	CONJUNTO
Jx: 14,3087 cm ⁴ Jy: 5,8517 cm ⁴	Jx: 16,2907 cm ⁴ Jy: 8,2665 cm ⁴
Wx: 4,3884 cm ³ Wy: 2.7668 cm ³	Wx: 3,6778 cm ³ Wy: 3,8526 cm ³

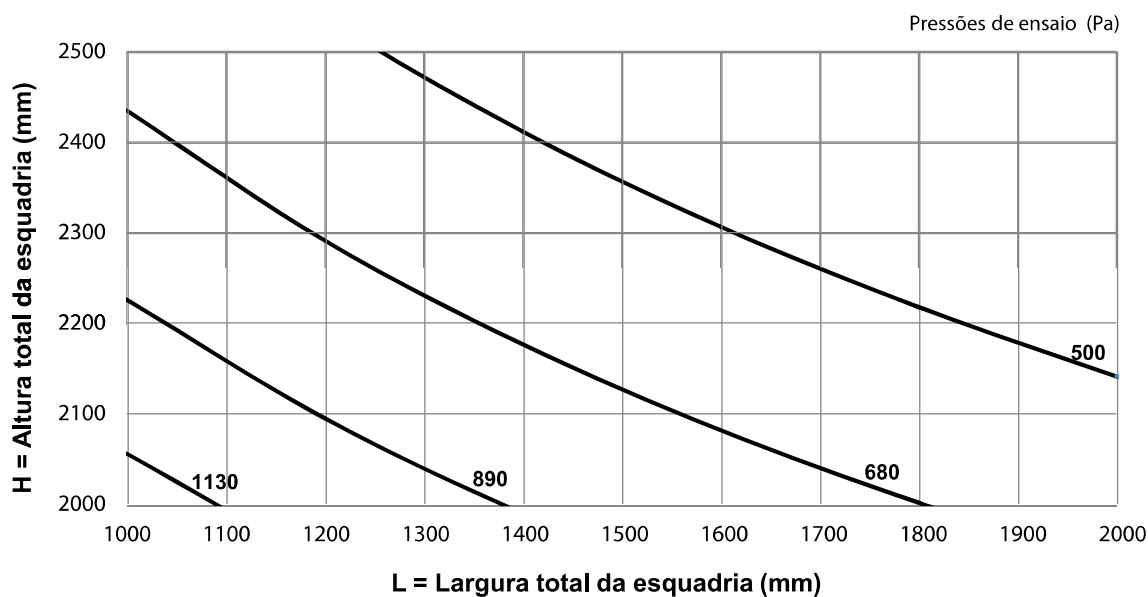
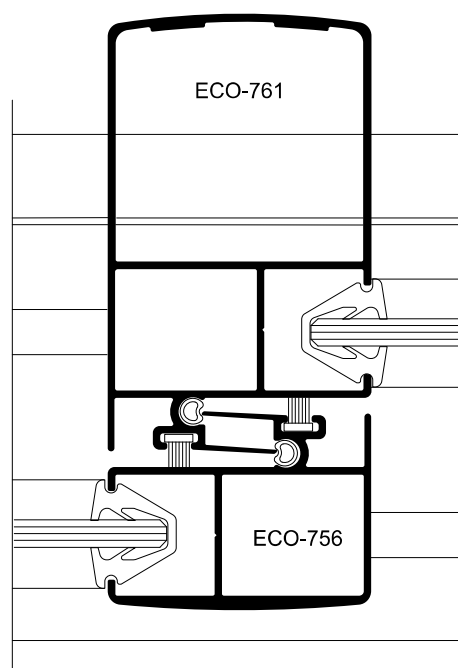
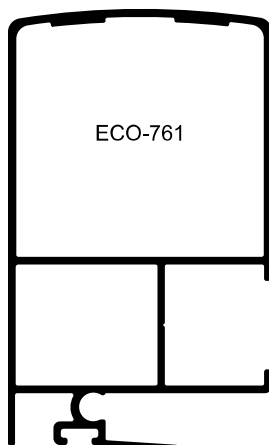


ELEVAÇÃO SEM ESCALA

Centroid:

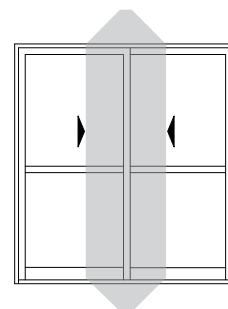
X: 2,1150 cm

Y: 3,2605 cm



PORTA DE CORRER 2 FOLHAS

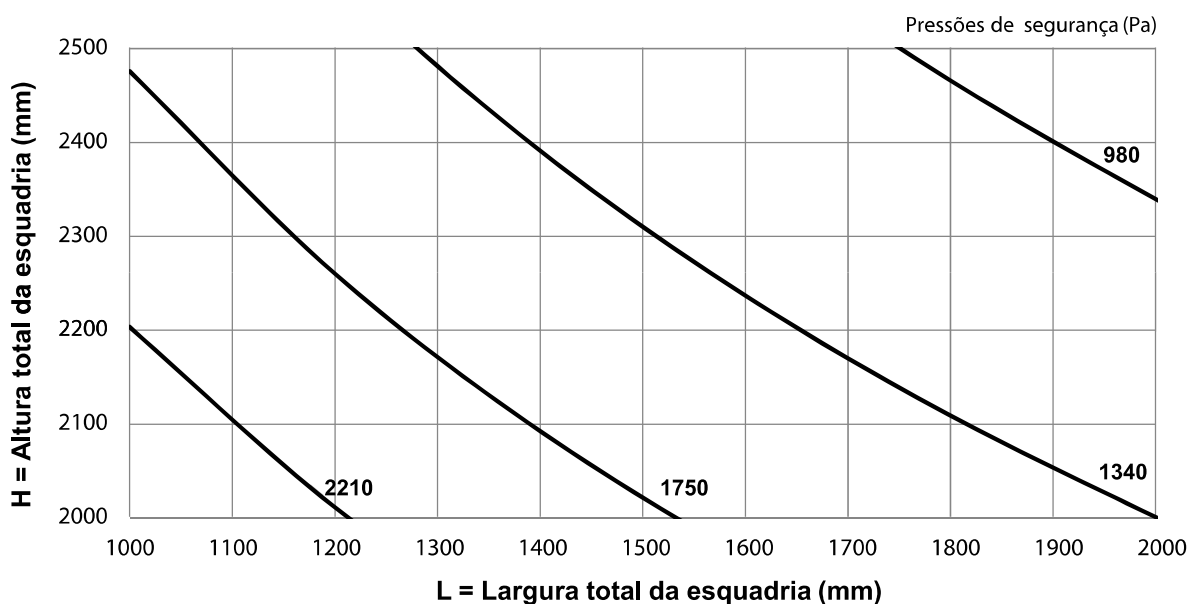
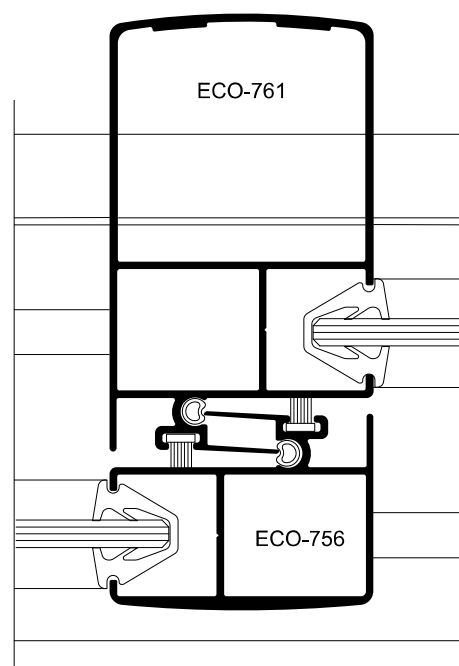
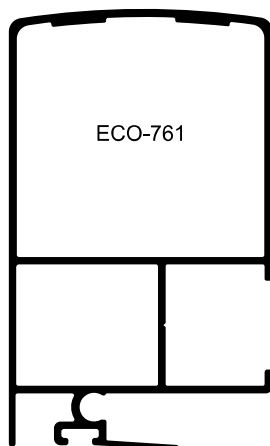
PERFIL	CONJUNTO
Jx: 14,3087 cm ⁴	Jx: 16,2907 cm ⁴
Jy: 5,8517 cm ⁴	Jy: 8,2665 cm ⁴
Wx: 4,3884 cm ³	Wx: 3,6778 cm ³
Wy: 2.7668 cm ³	Wy: 3,8526 cm ³



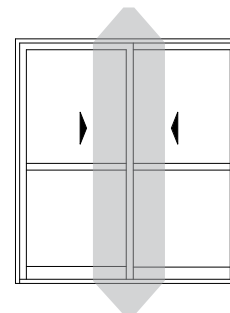
ELEVAÇÃO SEM ESCALA

Centroid:

X: 2,1150 cm
Y: 3,2605 cm



PERFIL	CONJUNTO
Jx: 14,3087 cm ⁴ Jy: 5,8517 cm ⁴	Jx: 28,6174 cm ⁴ Jy: 11,7034 cm ⁴
Wx: 4,3884 cm ³ Wy: 2,7668 cm ³	Wx: 8,7768 cm ³ Wy: 5,5336 cm ³

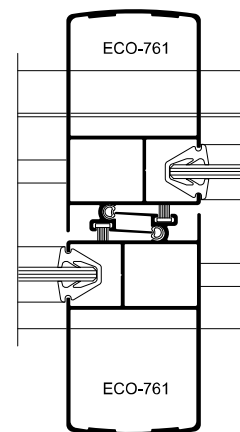
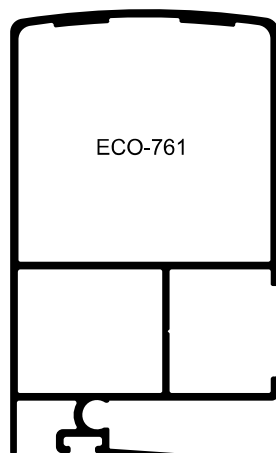


ELEVAÇÃO SEM ESCALA

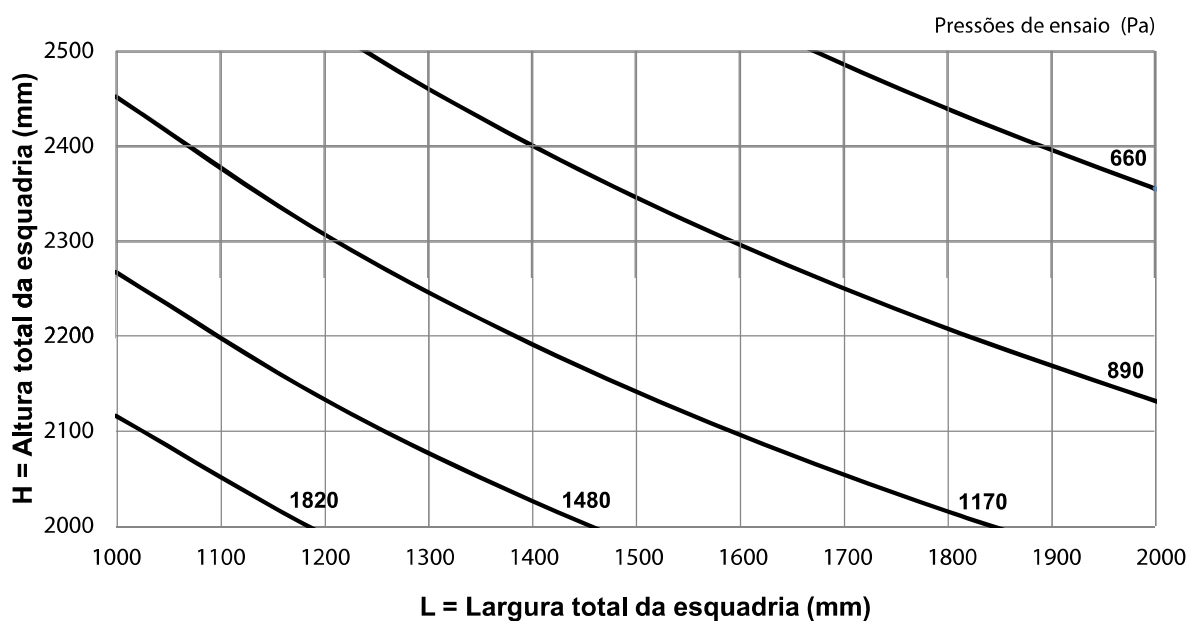
Centroid:

X: 2,1150 cm

Y: 3,2605 cm

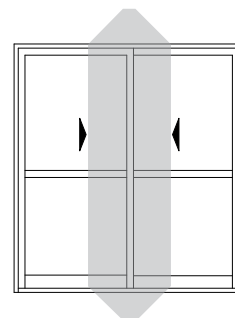


ESCALA 1:2



PORTA DE CORRER 2 FOLHAS

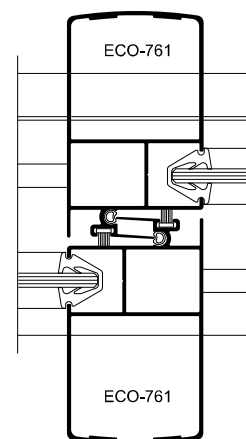
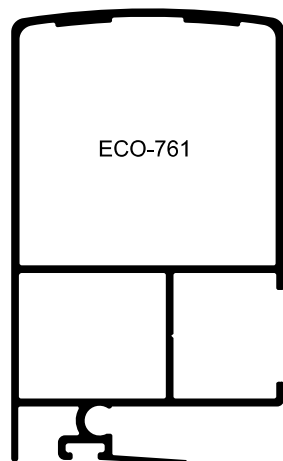
PERFIL	CONJUNTO
Jx: 14,3087 cm ⁴ Jy: 5,8517 cm ⁴	Jx: 28,6174 cm ⁴ Jy: 11,7034 cm ⁴
Wx: 4,3884 cm ³ Wy: 2,7668 cm ³	Wx: 8,7768 cm ³ Wy: 5,5336 cm ³



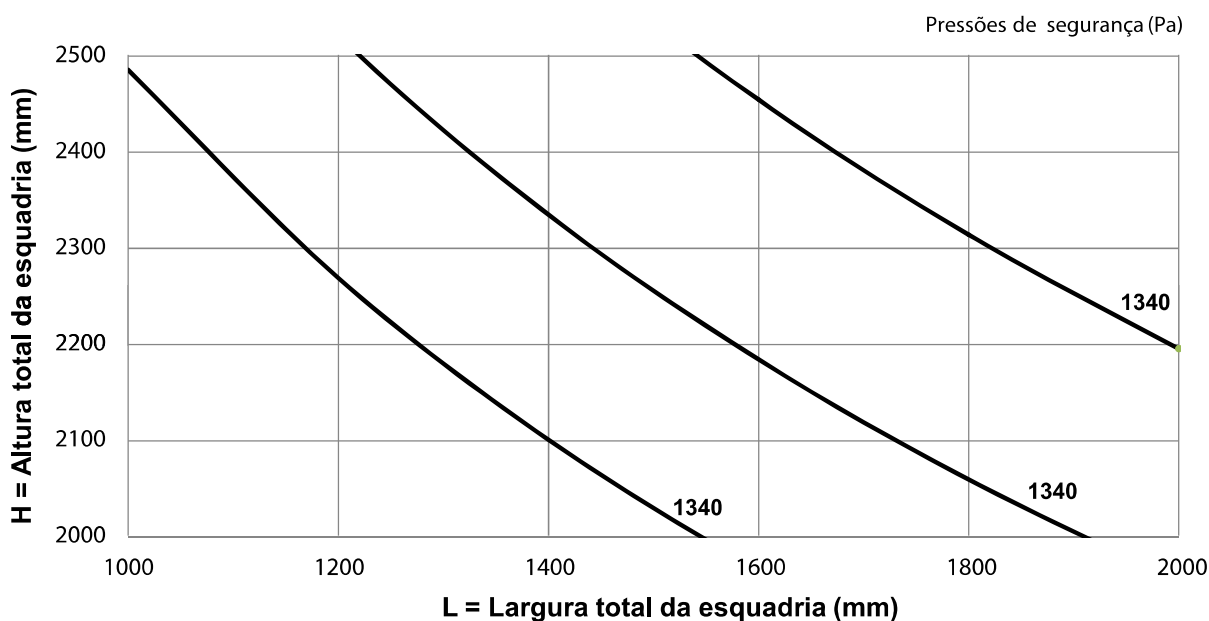
ELEVAÇÃO SEM ESCALA

Centroid:

X: 2,1150 cm
Y: 3,2605 cm

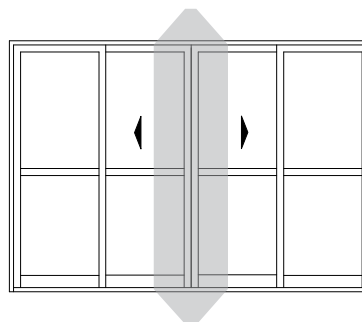


ESCALA 1:2



PORTA DE CORRER 4 FOLHAS

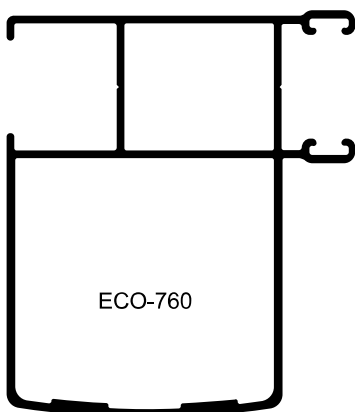
PERFIL
Jx: 11,9730 cm ⁴
Jy: 7,1930 cm ⁴
Wx: 3,9206 cm ³
Wy: 2,7569 cm ³



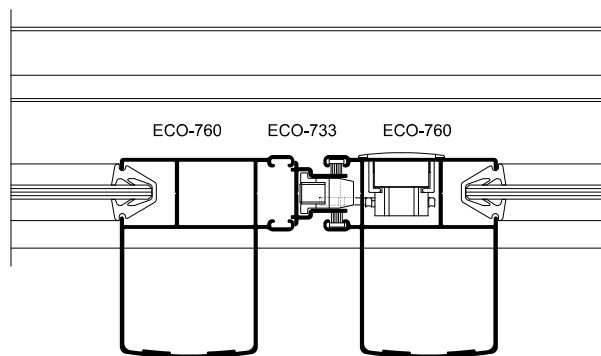
ELEVAÇÃO SEM ESCALA

Centroid:

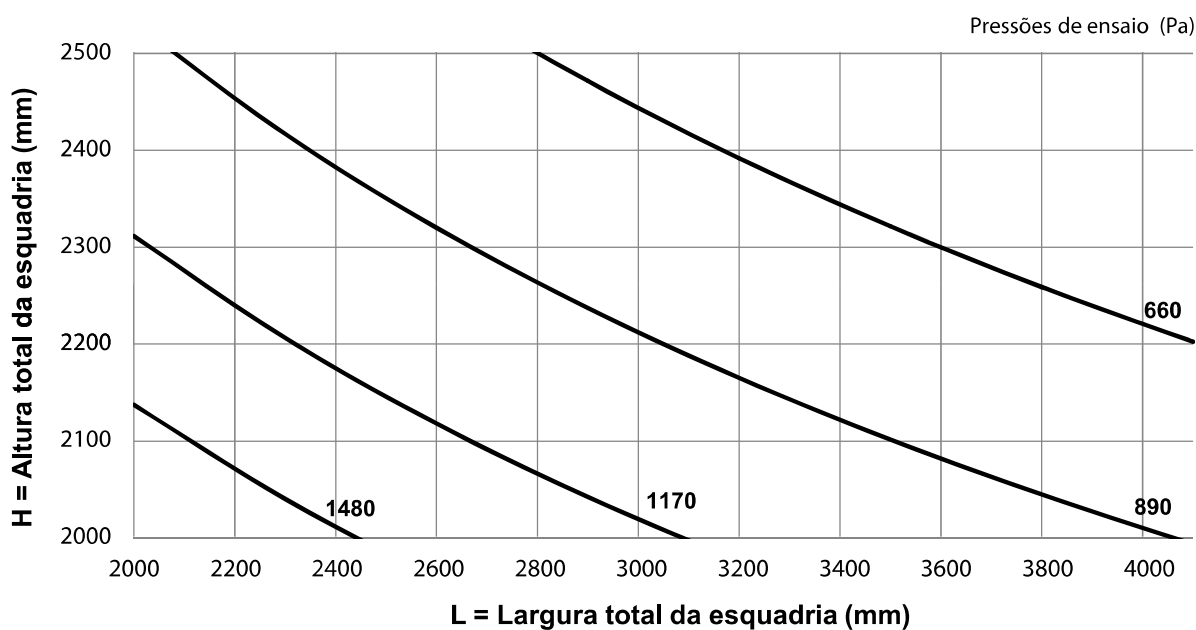
X: 2,6090 cm
Y: 3,0539 cm



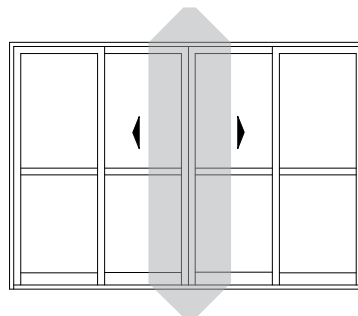
ECO-760



ESCALA 1:2



PORTA DE CORRER 4 FOLHAS

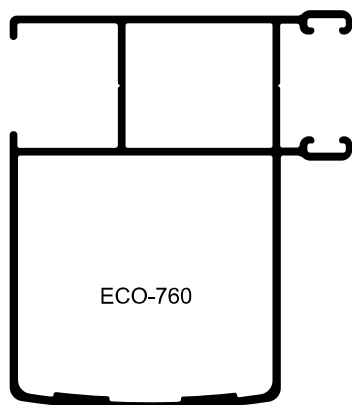


ELEVAÇÃO SEM ESCALA

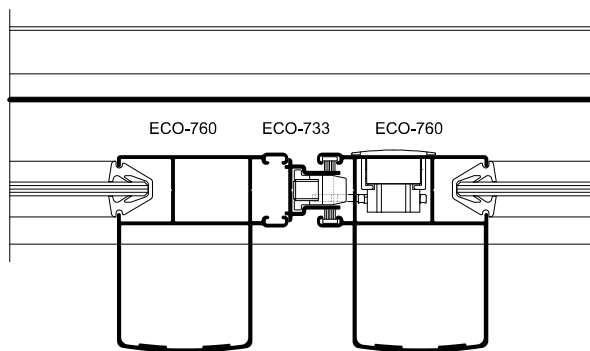
PERFIL
Jx: 11,9730 cm ⁴
Jy: 7,1930 cm ⁴
Wx: 3,9206 cm ³
Wy: 2,7569 cm ³

Centroid:

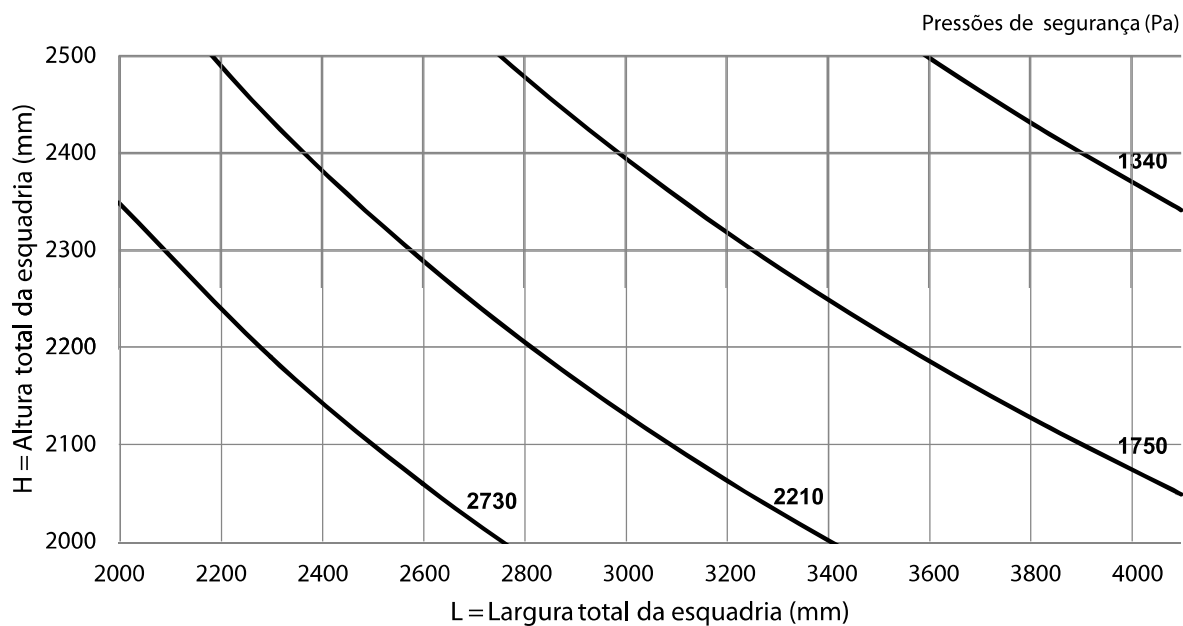
X: 2,6090 cm
Y: 3,0539 cm



ECO-760

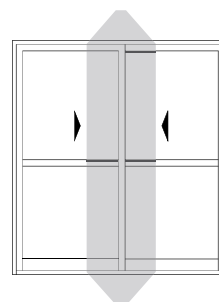


ESCALA 1:2

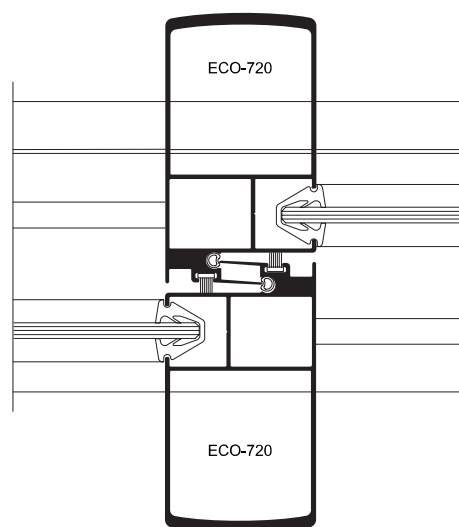
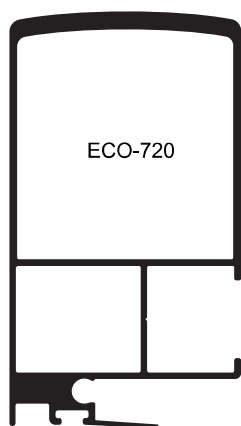


PERFIL
Jx: 25,89cm⁴
Wx: 7,1362 cm³
CONJUNTO
Jx: 51,78cm⁴
Wx: 14,2724 cm³

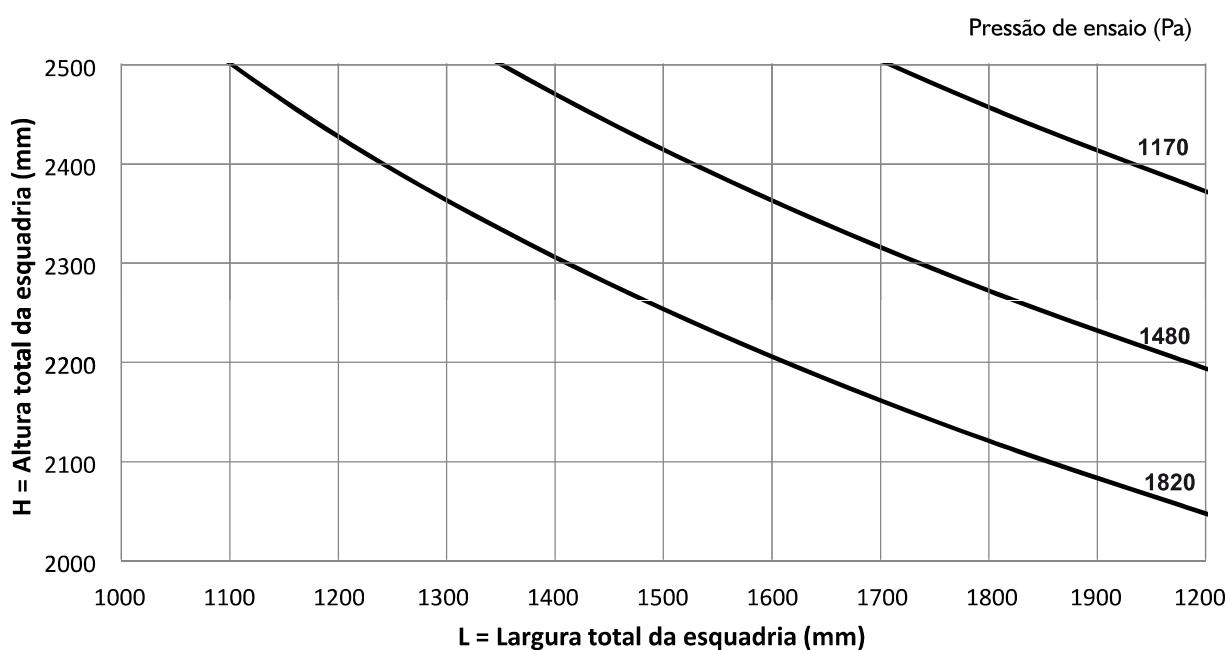
PORTA DE CORRER 2 FOLHAS



ELEVAÇÃO SEM ESCALA

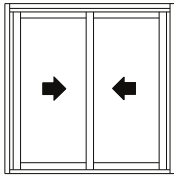


ESCALA 1:2

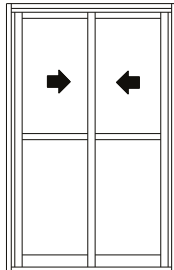


PERFIL, PROJETOS, CÓDIGOS E SISTEMAS ESTÃO SUJEITOS A ALTERAÇÃO SEM AVISO PRÉVIO.

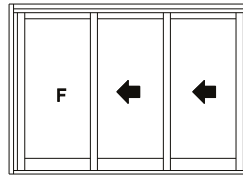
JANELA DE CORRER
2 FOLHAS



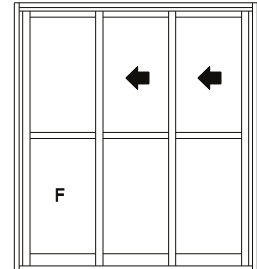
PORTA DE CORRER
2 FOLHAS



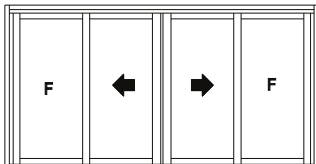
JANELA DE CORRER
3 FOLHAS



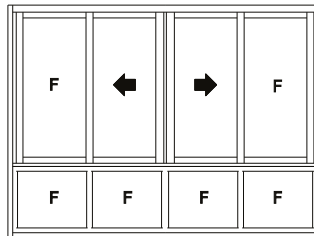
PORTA DE CORRER
3 FOLHAS



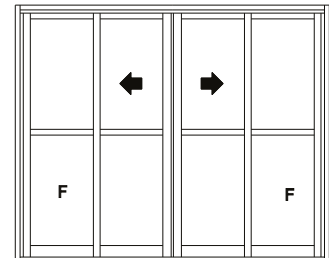
JANELA DE CORRER
4 FOLHAS



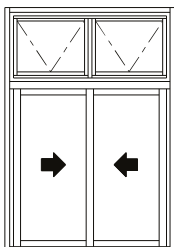
JANELA DE CORRER
4 FOLHAS COM PEITORIL FIXO



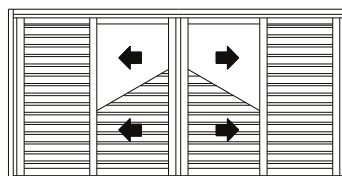
PORTA DE CORRER
4 FOLHAS



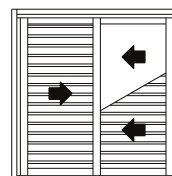
JANELA DE CORRER
2 FOLHAS COM
BANDEIRA MÓVEL



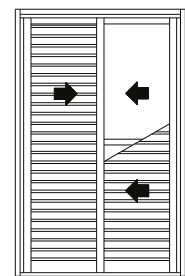
JANELA DE CORRER
6 FOLHAS VENEZIANA



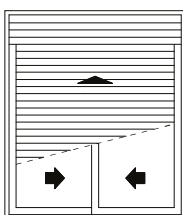
JANELA DE CORRER
3 FOLHAS VENEZIANA



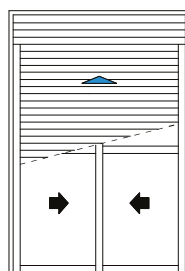
PORTA DE CORRER
3 FOLHAS VENEZIANA



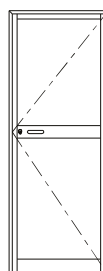
JANELA DE CORRER
2 FOLHAS COM PERSIANA



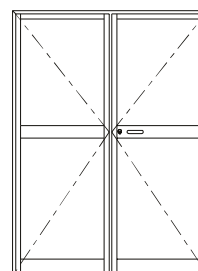
PORTA DE CORRER
2 FOLHAS COM PERSIANA



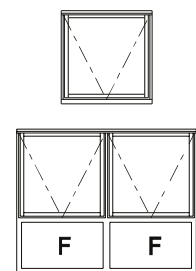
PORTA DE GIRO
1 FOLHA



PORTA DE GIRO
2 FOLHAS



JANELAS MAXIM-ARES



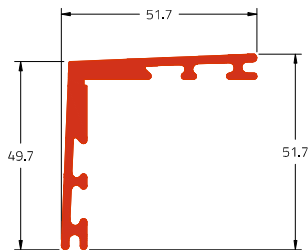
Código perfil	Descrição	Peso (Kg/m)	Página
AL-013	Tampa do Marco	0.117	5.020
BG-202	Baguete	0.116	5.016
CL-006	Conexão	1.100	5.001
CL-011	Cunha	0.333	5.001
CM-060	Contramarco	0.283	5.001
CM-174	Contramarco	0.417	5.002
CM-175	Chumbador	0.620	5.002
CM-200	Contramarco	0.200	5.001
CM-210	Contramarco	0.246	5.001
CM-211	Contramarco	0.475	5.002
ECO-103	Baguete	0.150	5.016
ECO-579	Marco Maxim-Ar	0.360	5.018
ECO-584	Pingadeira	0.115	5.019
ECO-586	Coluna com Olhal	0.600	5.018
ECO-590	Montante e Travessa Inferior da Folha	0.300	5.018
ECO-591	Travessa Superior da Folha	0.350	5.018
ECO-701	Marco Superior 2 Planos	0.610	5.003
ECO-702	Marco Inferior 2 Planos	0.640	5.003
ECO-703	Marco Lateral 2 Planos	0.422	5.005
ECO-704	Marco Superior (Band.) e Inferior (Peit.)	0.372	5.004
ECO-705	Travessa Intermediária (Band.) 2 Planos	0.820	5.004
ECO-706	Travessa Intermediária (Peit.) 2 Planos	0.843	5.004
ECO-707	Marco Lateral 2 Planos	0.300	5.005
ECO-708	Eixo Octogonal - 40mm	0.537	5.011
ECO-709	Travessa Superior / Inferior	0.390	5.014
ECO-710	Marco Superior 3 Planos	0.803	5.005
ECO-711	Marco Inferior 3 Planos	0.820	5.005
ECO-712	Marco Lateral 3 Planos	0.513	5.006
ECO-713	Marco Lateral 3 Planos	0.605	5.006
ECO-714	Travessa Intermediária (Peit.) 2 Planos	1.223	5.004
ECO-715	Travessa Intermediária Persiana	0.975	5.008
ECO-716	Travessa Inferior da Porta	0.959	5.015
ECO-717	Travessa Intermediária	0.449	5.014
ECO-718	Montante Lateral / Central	0.423	5.015
ECO-719	Montante Central com Engate	0.497	5.015
ECO-720	Montante Central com Engate e Reforço	1.130	5.013
ECO-721	Montante Lateral / Central com Reforço	1.045	5.012
ECO-722	Travessa Intermediária (Band.) 3 Planos	1.232	5.006
ECO-723	Travessa Intermediária (Peit.) 3 Planos	1.225	5.006
ECO-724	Travessa Superior / Inferior	0.407	5.011
ECO-725	Marco Lateral 3 Planos	0.492	5.006
ECO-726	Travessa Intermediária	0.420	5.011
ECO-727	Marco Superior (Band.) e Inferior (Peit.)	0.550	5.006
ECO-728	Travessa Inferior da Porta	0.820	5.012
ECO-729	Marco Inferior 3 Planos	0.760	5.005

Código perfil	Descrição	Peso (Kg/m)	Página
ECO-730	Montante e Travessa da Folha	0.590	5.019
ECO-731	Marco Inferior 2 Planos	0.560	5.003
ECO-732	Marco Porta de Giro	0.430	5.019
ECO-733	Mata-junta	0.170	5.007
ECO-734	Montante Lateral / Central com Reforço	0.948	5.015
ECO-735	Montante Central com Engate e Reforço	0.939	5.016
ECO-736	Montante Central com Engate e Reforço	0.964	5.016
ECO-737	Montante Central com Engate	0.426	5.015
ECO-738	Montante Lateral / Central com Reforço	0.593	5.015
ECO-739	Montante Lateral / Central	0.453	5.012
ECO-740	Marco Inferior 2 Planos	0.533	5.003
ECO-741	Marco Inferior 2 Planos	0.589	5.003
ECO-742	Baguete	0.094	5.016
ECO-743	Montante Central com Engate	0.387	5.014
ECO-744	Montante Lateral / Central	0.370	5.014
ECO-745	Coluna com Olhal	0.618	5.016
ECO-746	Marco Superior 4 Planos	1.038	5.007
ECO-747	Marco Inferior 4 Planos	0.916	5.007
ECO-748	Marco Lateral 4 Planos	0.516	5.007
ECO-751	Marco Inferior 4 Planos	1.068	5.007
ECO-752	Quadro	0.496	5.019
ECO-753	Montante lateral para Cremona	0.496	5.012
ECO-754	Mata-Junta para Cremona	0.348	5.012
ECO-756	Montante Central com Engate	0.530	5.013
ECO-757	Montante Central com Engate Duplo	0.602	5.014
ECO-760	Montante Lateral / Central com Reforço	0.840	5.012
ECO-761	Montante Central com Engate e Reforço	0.853	5.013
ECO-762	Inversor para Baguete	0.238	5.017
ECO-763	Montante e Travessa Inferior da Folha	0.480	5.017
ECO-764	Travessa Superior da Folha	0.366	5.017
ECO-765	Marco Maxim-Ar	0.340	5.017
ECO-766	Marco Maxim-Ar	0.304	5.017
ECO-767	Marco Maxim-Ar	0.412	5.017
ECO-768	Marco Superior Persiana	0.670	5.007
ECO-769	Travessa Intermediária Persiana	0.650	5.008
ECO-770	Marco Inferior Persiana	0.802	5.008
ECO-771	Marco Lateral da Persiana	0.470	5.010
ECO-772	Tampa Externa da Persiana	0.820	5.008
ECO-773	Tampa Interna da Persiana	0.600	5.008
ECO-774	Arremate Lateral do Recolhedor	0.795	5.010
ECO-775	Montante Lateral para Guiagem da Persiana	0.620	5.011
ECO-776	Terminal da Persiana	0.273	5.011
ECO-779	Marco Maxim-Ar	0.338	5.018
ECO-780	Montante Central com Engate e Reforço	0.726	5.014
ECO-781	Coluna	0.920	5.004

Código perfil	Descrição	Peso (Kg/m)	Página
ECO-782	Perfil "U"	0.090	5.020
ECO-783	Marco Montante	0.412	5.020
ECO-784	Marco Travessa	0.455	5.020
ECO-785	Marco Inferior Persiana	0.842	5.009
ECO-786	Marco Superior Persiana	1.292	5.009
ECO-787	Tampa Externa da Persiana	0.520	5.009
ECO-788	Marco Lateral da Persiana	0.625	5.010
ECO-789	Arremate Lateral do Recolhedor	1.045	5.010
ECO-790	Travessa Intermediária Persiana	1.275	5.008
ECO-791	Tampa Interna da Persiana	0.900	5.009
ECO-792	Trilho Duplo	0.345	5.004
ECO-793	Trilho Triplo	0.560	5.005
ECO-794	Travessa Intermediária	0.458	5.011
ECO-795	Montante Lateral / Central com Reforço	0.898	5.013
ECO-796	Montante Central com Engate e Reforço	0.902	5.013
ECO-797	Marco Inferior 2 Planos	0.500	5.003
ECO-798	Montante Lateral / Central com Reforço	0.627	5.013
ECO-799	Montante Lateral / Central com Reforço	0.578	5.012
ME-014	Arremate para Piso	0.235	5.002
MP-347	Arremate	0.200	5.002
US-725	Veneziana Ventilada	0.242	5.019
VT-083	Pingadeira	0.150	5.018
VZ-725	Veneziana	0.242	5.019
Y-721	Contramarco	0.217	5.001

CL-006	Conexão
1.100 Kg/m	Encaixe: CL-011

ESCALA 1:2



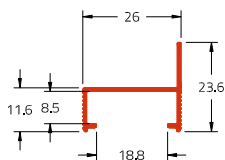
CL-011	Cunha
0.333 Kg/m	Encaixe: CL-006

ESCALA 1:2



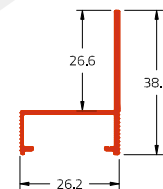
CM-200	Contramarco
0.200 Kg/m	-

ESCALA 1:2



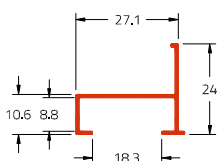
CM-210	Contramarco
0.246 Kg/m	-

ESCALA 1:2



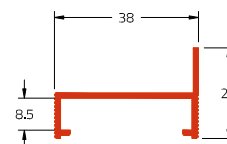
Y-721	Contramarco
0.217 Kg/m	-

ESCALA 1:2



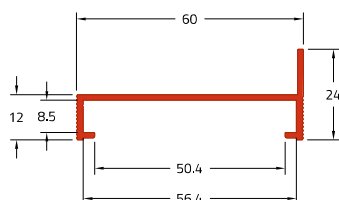
CM-060	Contramarco
0.283 Kg/m	-

ESCALA 1:2



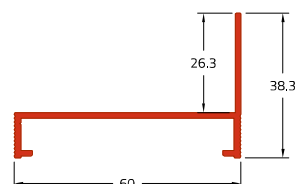
CM-174	Contramarco
0,417 Kg/m	-

ESCALA 1:2



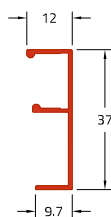
CM-211	Contramarco
0,475 Kg/m	-

ESCALA 1:2



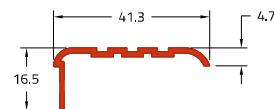
MP-347	Arremate
0,200 Kg/m	-

ESCALA 1:2



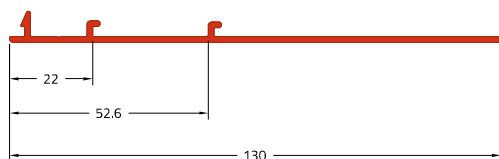
ME-014	Arremate para Piso
0,235 Kg/m	-

ESCALA 1:2



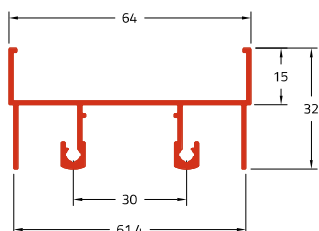
CM-175	Chumbador
0,620 Kg/m	Fornecido em barra

ESCALA 1:2



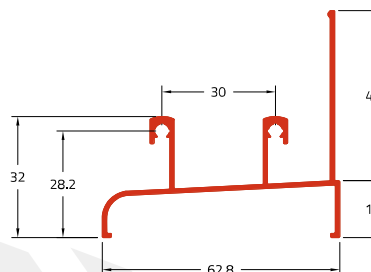
ECO-701	Marco Superior 2 Planos
0,610 Kg/m	Encaixe: ECO-703/ECO-707

ESCALA 1:2



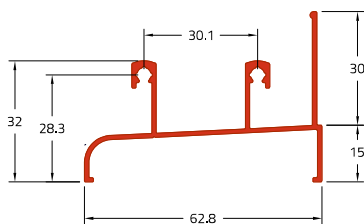
ECO-702	Marco Inferior 2 Planos
0,640 Kg/m	Encaixe: ECO-703/ECO-707

ESCALA 1:2



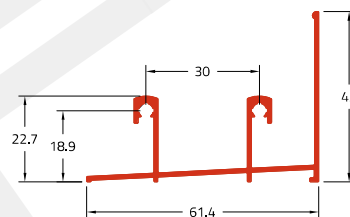
ECO-741	Marco Inferior 2 Planos
0,589 Kg/m	Encaixe: ECO-703/ECO-707

ESCALA 1:2



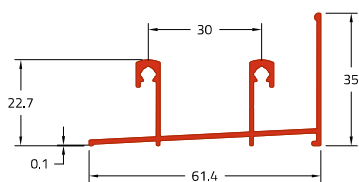
ECO-731	Marco Inferior 2 Planos
0,560 Kg/m	Encaixe: ECO-703/ECO-707

ESCALA 1:2



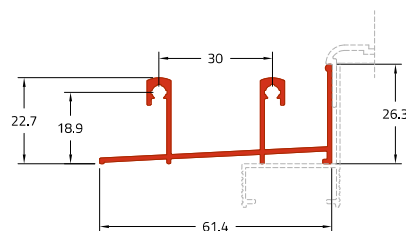
ECO-740	Marco Inferior 2 Planos
0,533 Kg/m	Encaixe: ECO-703/ECO-707

ESCALA 1:2



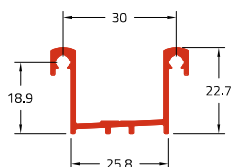
ECO-797	Marco Inferior 2 Planos
0,500 Kg/m	Encaixe: ECO-703/ECO-707

ESCALA 1:2



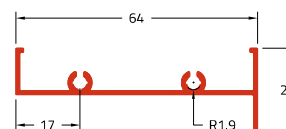
ECO-792	Trilho Duplo
0,345 Kg/m	Encaixe: ECO-703/ECO-707

ESCALA 1:2



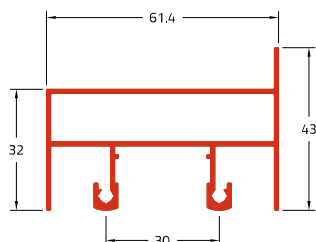
ECO-704	Marco Superior (Band.) e Inferior (Peit.)
0,372 Kg/m	Encaixe: ECO-707

ESCALA 1:2



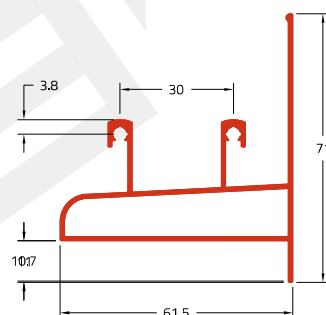
ECO-705	Travessa Intermediária (Band.) 2 Planos
0,820 Kg/m	Encaixe: ECO-707

ESCALA 1:2



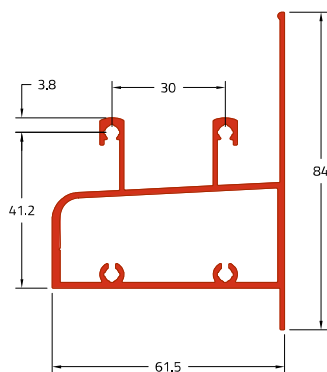
ECO-706	Travessa Intermediária (Peit.) 2 Planos
0,843 Kg/m	Encaixe: ECO-707

ESCALA 1:2



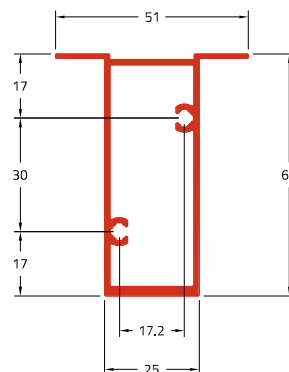
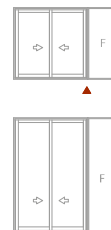
ECO-714	Travessa Intermediária (Peit.) 2 Planos
1,223 Kg/m	Encaixe: ECO-707

ESCALA 1:2



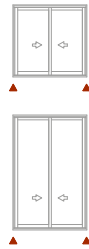
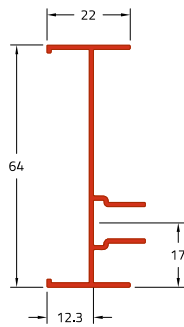
ECO-781	Coluna
0,920 Kg/m	Encaixe: ECO-704/ECO-703/ECO-701/ECO-741/ECO-740/ECO-702/ECO-731/ECO-797/ECO-705/ECO-706/ECO-714

ESCALA 1:2



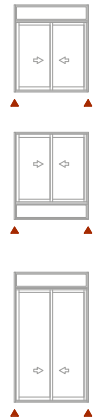
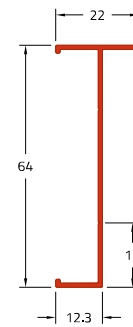
ECO-703	Marco Lateral 2 Planos
0,422 Kg/m	Encaixe: Marco Superior e Inferior

ESCALA 1:2



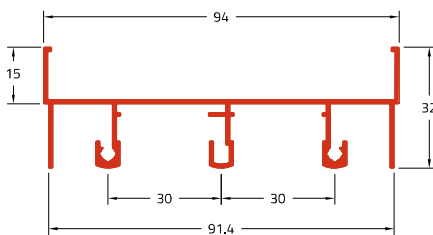
ECO-707	Marco Lateral 2 Planos
0,300 Kg/m	Encaixe: Marco Superior, Inferior e Travessa Interm.

ESCALA 1:2



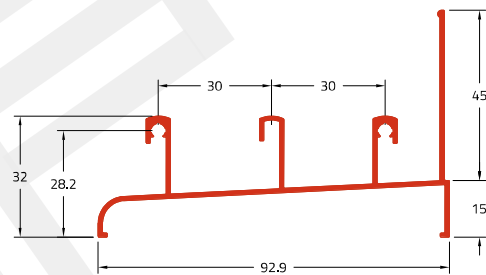
ECO-710	Marco Superior 3 Planos
0,803 Kg/m	Encaixe: ECO-712/ECO-713/ECO-725

ESCALA 1:2



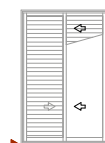
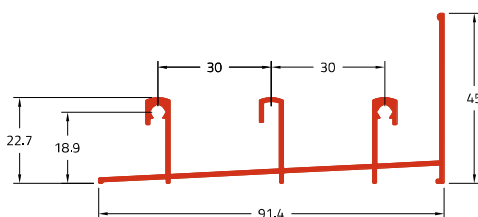
ECO-711	Marco Inferior 3 Planos
0,820 Kg/m	Encaixe: ECO-712/ECO-713/ECO-725

ESCALA 1:2



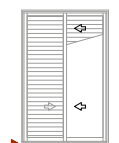
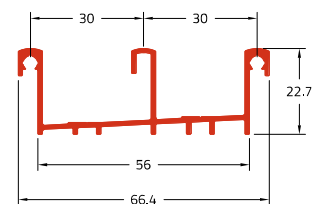
ECO-729	Marco Inferior 3 Planos
0,760 Kg/m	Encaixe: ECO-712/ECO-713/ECO-725

ESCALA 1:2



ECO-793	Trilho Triplo
0,560 Kg/m	Encaixe: ECO-712/ECO-713/ECO-725

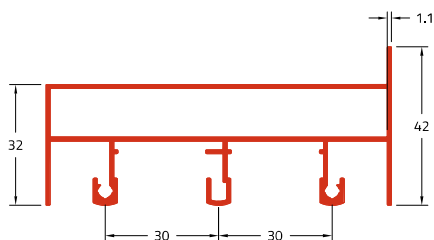
ESCALA 1:2



ECO-722 Travessa Intermediária (Band.) 3 Planos

1.232 Kg/m Encaixe: ECO-725

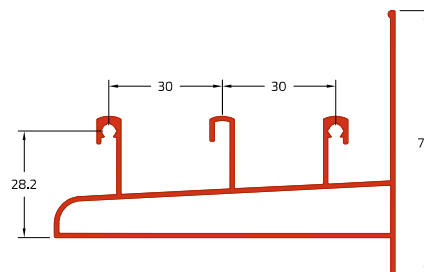
ESCALA 1:2



ECO-723 Travessa Intermediária (Peit.) 3 Planos

1.225 Kg/m Encaixe: ECO-725

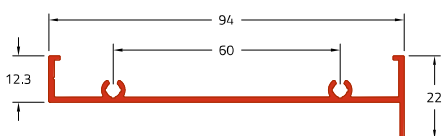
ESCALA 1:2



ECO-727 Marco Superior (Band.) e Inferior (Peit.)

0,550 Kg/m Encaixe: ECO-725

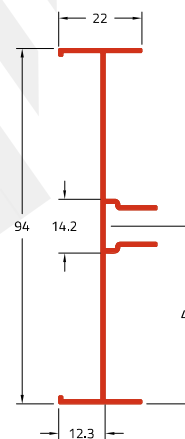
ESCALA 1:2



ECO-712 Marco Lateral 3 Planos

0,513 Kg/m Encaixe: Marco Superior e Inferior

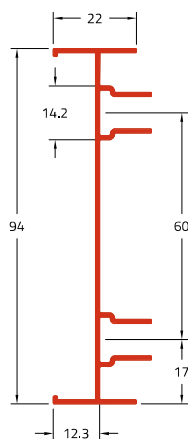
ESCALA 1:2



ECO-713 Marco Lateral 3 Planos

0,605 Kg/m Encaixe: Marco Superior e Inferior

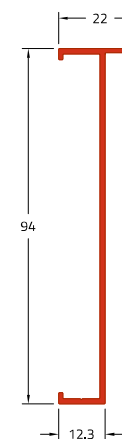
ESCALA 1:2



ECO-725 Marco Lateral 3 Planos

0,492 Kg/m Encaixe: Marco Superior, Inferior e Travessa Intern.

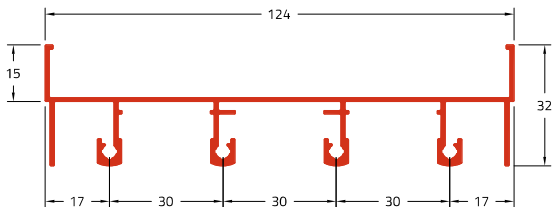
ESCALA 1:2



ECO-746 Marco Superior 4 Planos
1.038 Kg/m Encaixe: ECO-748



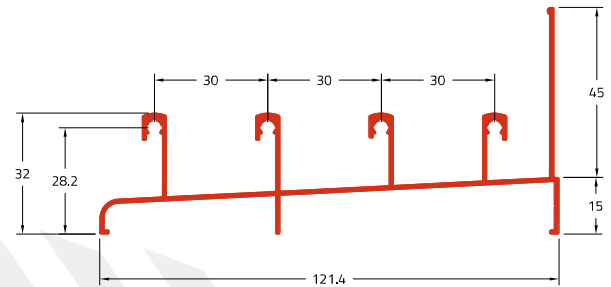
ESCALA 1:2



ECO-751 Marco Inferior 4 Planos
1.068 Kg/m Encaixe: ECO-748



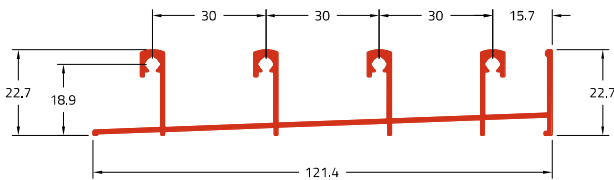
ESCALA 1:2



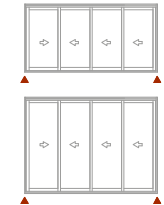
ECO-747 Marco Inferior 4 Planos
0.916 Kg/m Encaixe: ECO-748



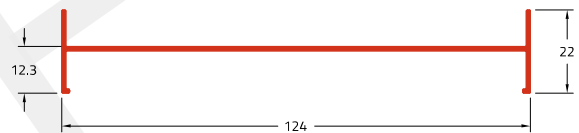
ESCALA 1:2



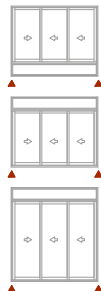
ECO-748 Marco Lateral 4 Planos
0.516 Kg/m Encaixe: ECO-746/ECO-751/ECO-747



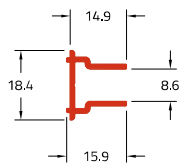
ESCALA 1:2



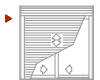
ECO-733 Mata-junta
0.170 Kg/m Encaixe: ECO-707/ECO-725/ECO-748/ECO-771/ECO-788/ECO-774/ECO-789



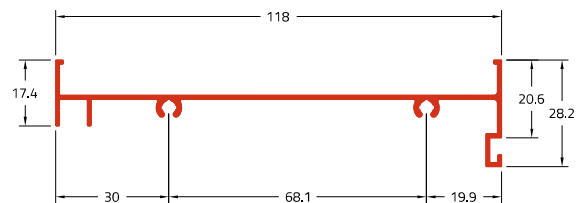
ESCALA 1:2



ECO-768 Marco Superior Persiana
0.670 Kg/m Encaixe: ECO-771



ESCALA 1:2

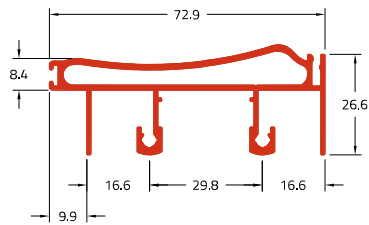


ECO-715 Travessa Intermediária Persiana

0.975 Kg/m Encaixe: ECO-771



ESCALA 1:2

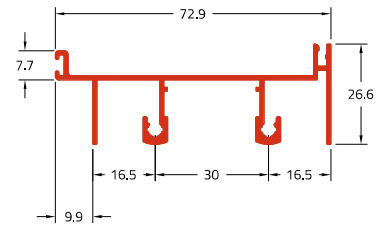


ECO-769 Travessa Intermediária Persiana

0.650 Kg/m Encaixe: ECO-771



ESCALA 1:2

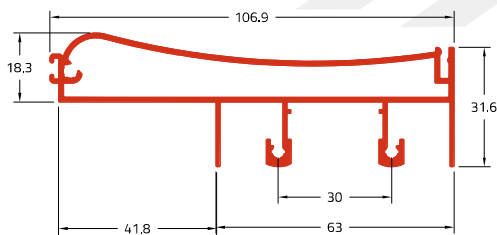


ECO-790 Travessa Intermediária Persiana

1.275 Kg/m Encaixe: ECO-788



ESCALA 1:2

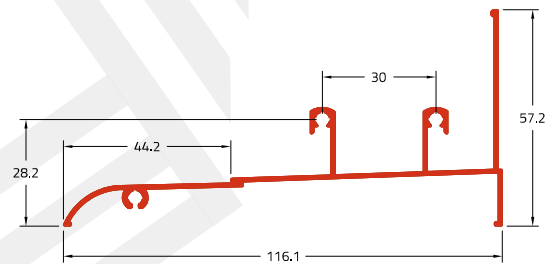


ECO-770 Marco Inferior Persiana

0.802 Kg/m Encaixe: ECO-771



ESCALA 1:2

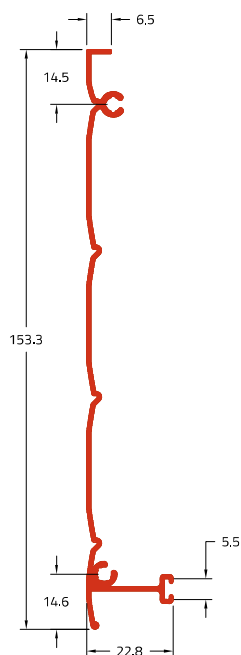


ECO-772 Tampa Externa da Persiana

0.820 Kg/m Encaixe: ECO-788/ECO-771



ESCALA 1:2

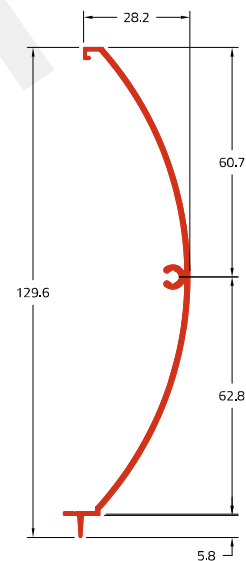


ECO-773 Tampa Interna da Persiana

0.600 Kg/m Encaixe: ECO-768/ECO-711



ESCALA 1:2



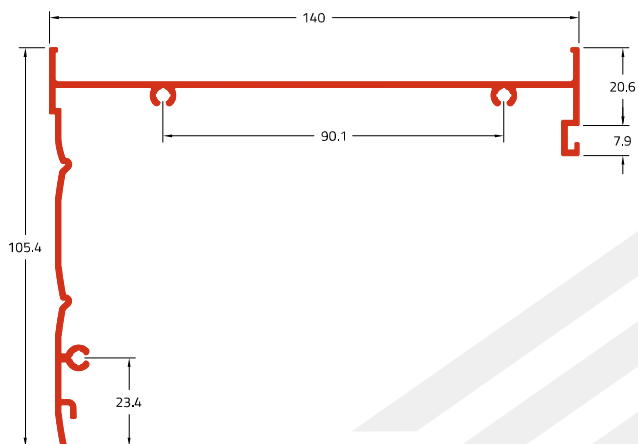
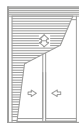
PERFIS, PROJETOS, CÓDIGOS E SISTEMAS ESTÃO SUJEITOS A ALTERAÇÃO SEM AVISO PRÉVIO.

ECO-786 Marco Superior Persiana

1.292 Kg/m

Encaixe: ECO-788

ESCALA 1:2

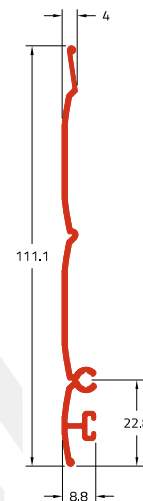
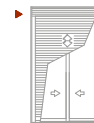


ECO-787 Tampa Externa da Persiana

0.520 Kg/m

Encaixe: ECO-786/ECO-788

ESCALA 1:2

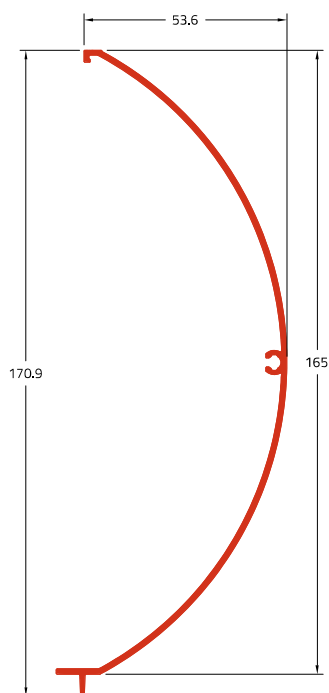
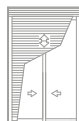


ECO-791 Tampa Interna da Persiana

0.900 Kg/m

Encaixe: ECO-786/ECO-788

ESCALA 1:2

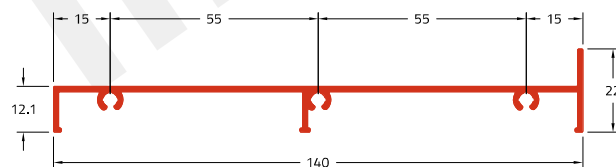


ECO-785 Marco Inferior Persiana

0.842 Kg/m

Encaixe: ECO-788

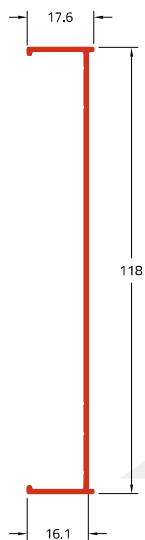
ESCALA 1:2



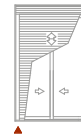
ECO-771	Marco Lateral da Persiana
0,470 Kg/m	Encaixe: Marco Superior, Inferior e Travessa Intern.



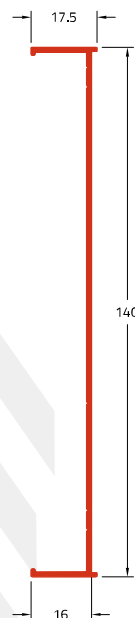
ESCALA 1:2



ECO-788	Marco Lateral da Persiana
0,625 Kg/m	Encaixe: Marco Superior, Inferior e Travessa Intern.



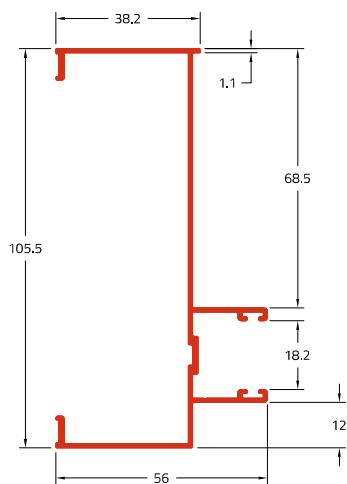
ESCALA 1:2



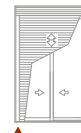
ECO-774	Arremate Lateral do Recolhedor
0,795 Kg/m	Encaixe: ECO-771



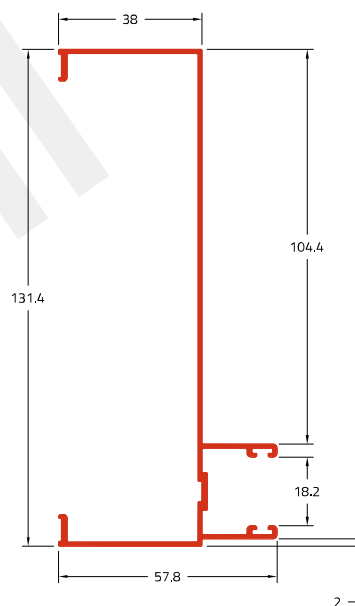
ESCALA 1:2



ECO-789	Arremate Lateral do Recolhedor
1,045 Kg/m	Encaixe: ECO-789



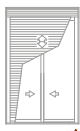
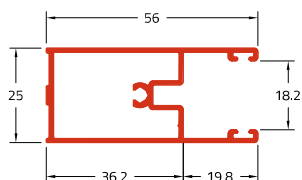
ESCALA 1:2



PERFIS, PROJETOS, CÓDIGOS E SISTEMAS ESTÃO SUJEITOS A ALTERAÇÃO SEM AVISO PRÉVIO.

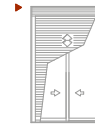
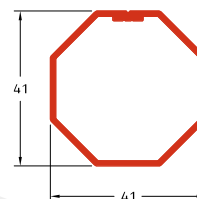
ECO-775	Montante Lateral para Guiagem da Persiana
0.620 Kg/m	Encaixe: ECO-771/ECO-788

ESCALA 1:2



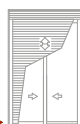
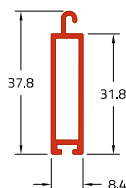
ECO-708	Eixo Octogonal - 40mm
0.537 Kg/m	Encaixe: ECO-771/ECO-788

ESCALA 1:2



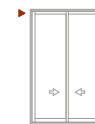
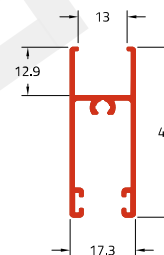
ECO-776	Terminal da Persiana
0.273 Kg/m	Encaixe: Palhetas

ESCALA 1:2



ECO-724	Travessa Superior / Inferior
0.407 Kg/m	Encaixe: Montantes Laterais e Centrais

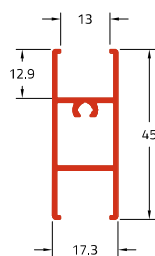
ESCALA 1:2



Sem Baguete

ECO-726	Travessa Intermediária
0.420 Kg/m	Encaixe: Montantes Laterais e Centrais

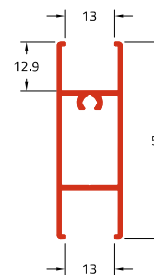
ESCALA 1:2



Sem Baguete

ECO-794	Travessa Intermediária
0.458 Kg/m	Encaixe: Montantes Laterais e Centrais

ESCALA 1:2



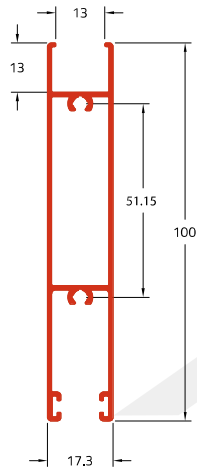
Sem Baguete

ECO-728 Travessa Inferior da Porta

0,820 Kg/m

Encaixe: Montantes Laterais e Centrais

ESCALA 1:2



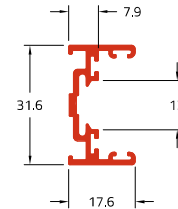
Sem Baguete

ECO-754 Mata-Junta para Cremona

0,348 Kg/m

Encaixe: ECO-707

ESCALA 1:2

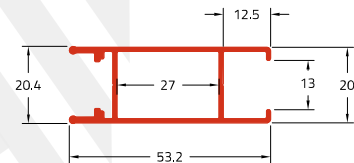


ECO-753 Montante lateral para Cremona

0,496 Kg/m

Encaixe: ECO-724/ECO-726/ECO-794/ECO-728

ESCALA 1:2



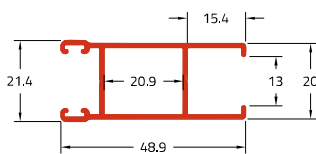
Sem Baguete

ECO-739 Montante Lateral / Central

0,453 Kg/m

Encaixe: ECO-724/ECO-726/ECO-794/ECO-728

ESCALA 1:2



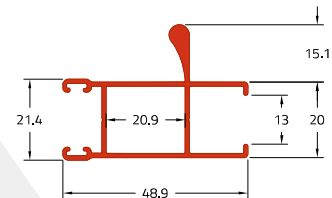
Sem Baguete

ECO-799 Montante Lateral / Central com Reforço

0,578 Kg/m

Encaixe: ECO-724/ECO-726/ECO-794/ECO-728

ESCALA 1:2



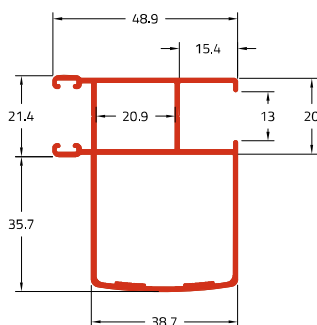
Sem Baguete

ECO-760 Montante Lateral / Central com Reforço

0,840 Kg/m

Encaixe: ECO-724/ECO-726/ECO-794/ECO-728

ESCALA 1:2



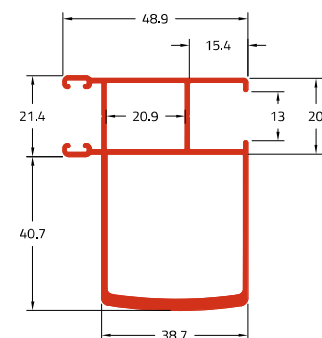
Sem Baguete

ECO-721 Montante Lateral / Central com Reforço

1,045 Kg/m

Encaixe: ECO-724/ECO-726/ECO-794/ECO-728

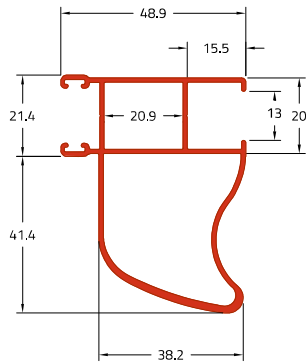
ESCALA 1:2



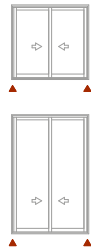
Sem Baguete

ECO-795	Montante Lateral / Central com Reforço
0,898 Kg/m	Encaixe: ECO-724/ECO-726/ECO-794/ECO-728

ESCALA 1:2

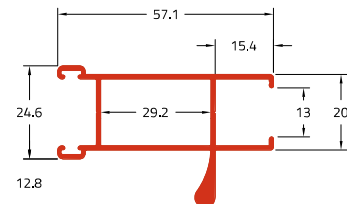


Sem Baguete

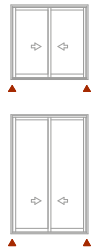


ECO-798	Montante Lateral / Central com Reforço
0,627 Kg/m	Encaixe: ECO-724/ECO-726/ECO-794/ECO-728

ESCALA 1:2

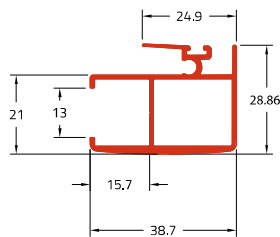


Sem Baguete

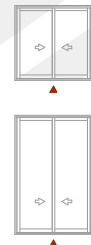


ECO-756	Montante Central com Engate
0,530 Kg/m	Encaixe: ECO-724/ECO-726/ECO-794/ECO-728

ESCALA 1:2

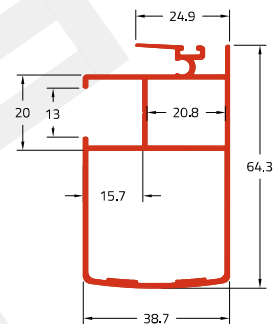


Sem Baguete

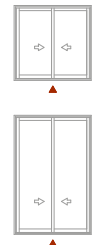


ECO-761	Montante Central com Engate e Reforço
0,853 Kg/m	Encaixe: ECO-724/ECO-726/ECO-794/ECO-728

ESCALA 1:2

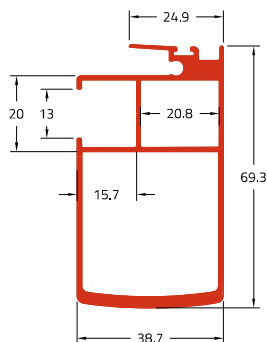


Sem Baguete

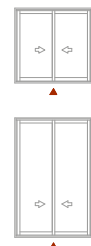


ECO-720	Montante Central com Engate e Reforço
1,130 Kg/m	Encaixe: ECO-724/ECO-726/ECO-794/ECO-728

ESCALA 1:2

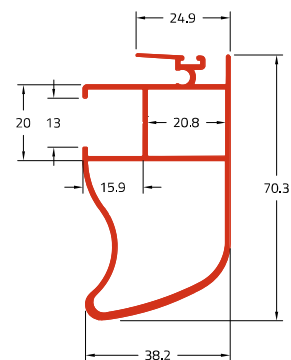


Sem Baguete

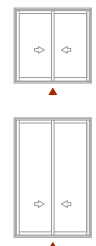


ECO-796	Montante Central com Engate e Reforço
0,902 Kg/m	Encaixe: ECO-724/ECO-726/ECO-794/ECO-728

ESCALA 1:2

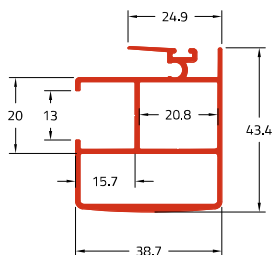


Sem Baguete



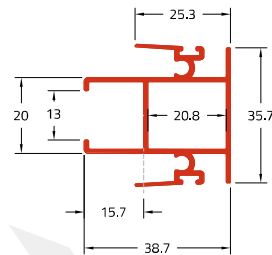
ECO-780	Montante Central com Engate e Reforço
0.726 Kg/m	Encaixe: ECO-724/ECO-726/ECO-794/ECO-728

ESCALA 1:2



ECO-757	Montante Central com Engate Duplo
0.602 Kg/m	Encaixe: ECO-724/ECO-726/ECO-794/ECO-728

ESCALA 1:2

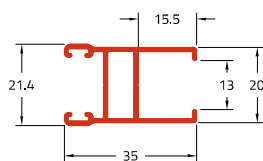


Sem Baguete

Sem Baguete

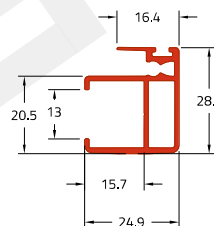
ECO-744	Montante Lateral / Central
0.370 Kg/m	Encaixe: ECO-724/ECO-726/ECO-794/ECO-728

ESCALA 1:2



ECO-743	Montante Central com Engate
0.387 Kg/m	Encaixe: ECO-724/ECO-726/ECO-794/ECO-728

ESCALA 1:2

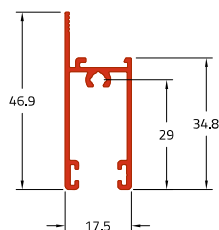


Sem Baguete

Sem Baguete

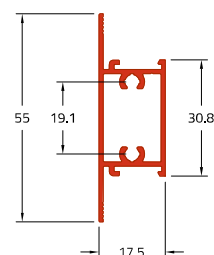
ECO-709	Travessa Superior / Inferior
0.390 Kg/m	Encaixe: Montantes Laterais e Centrais

ESCALA 1:2



ECO-717	Travessa Intermediária
0.449 Kg/m	Encaixe: Montantes Laterais e Centrais

ESCALA 1:2



Com Baguete

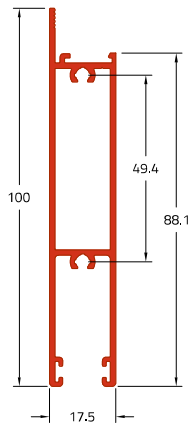
Com Baguete

ECO-716 Travessa Inferior da Porta

0,959 Kg/m

Encaixe: Montantes Laterais e Centrais

ESCALA 1:2



Com Baguete

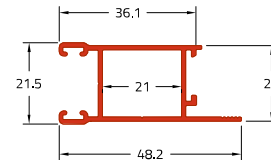


ECO-718 Montante Lateral / Central

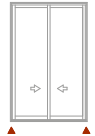
0,423 Kg/m

Encaixe: ECO-709/ECO-726/ECO-717/ECO-716

ESCALA 1:2



Com Baguete

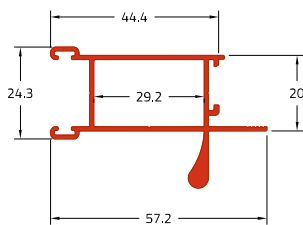


ECO-738 Montante Lateral / Central com Reforço

0,593 Kg/m

Encaixe: ECO-709/ECO-726/ECO-717/ECO-716

ESCALA 1:2



Com Baguete

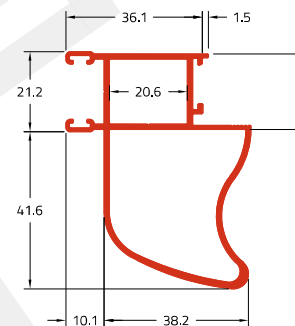


ECO-734 Montante Lateral / Central com Reforço

0,948 Kg/m

Encaixe: ECO-709/ECO-726/ECO-717/ECO-716

ESCALA 1:2



Com Baguete

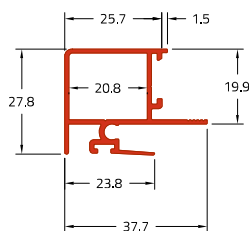


ECO-737 Montante Central com Engate

0,426 Kg/m

Encaixe: ECO-709/ECO-726/ECO-717/ECO-716

ESCALA 1:2



Com Baguete

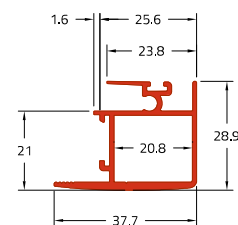


ECO-719 Montante Central com Engate

0,497 Kg/m

Encaixe: ECO-709/ECO-726/ECO-717/ECO-716

ESCALA 1:2



Com Baguete

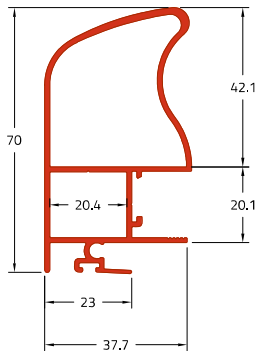


ECO-736 Montante Central com Engate e Reforço

0,964 Kg/m

Encaixe: ECO-709/ECO-726/ECO-717/ECO-716

ESCALA 1:2



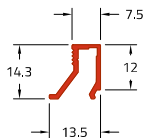
Com Bagueite

BG-202 Bagueite

0,116 Kg/m

Encaixe: Folhas com Bagueite

ESCALA 1:2

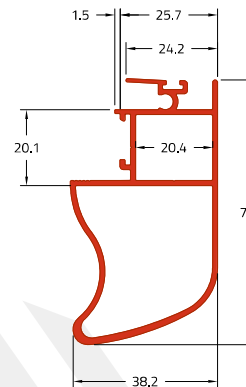


ECO-735 Montante Central com Engate e Reforço

0,939 Kg/m

Encaixe: ECO-709/ECO-726/ECO-717/ECO-716

ESCALA 1:2



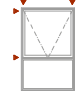
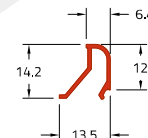
Com Bagueite

ECO-742 Bagueite

0,094 Kg/m

Encaixe: Folhas com Bagueite

ESCALA 1:2

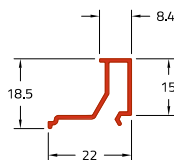


ECO-103 Bagueite

0,150 Kg/m

Encaixe: Folhas com Bagueite

ESCALA 1:2

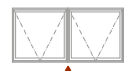
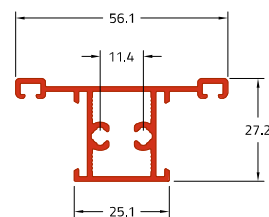


ECO-745 Coluna com Olhal

0,618 Kg/m

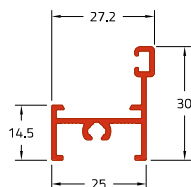
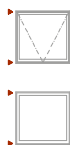
Encaixe: ECO-765

ESCALA 1:2



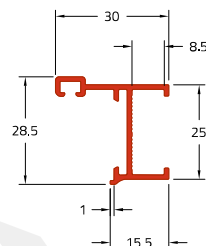
ECO-765	Marco Maxim-Ar
0.340 Kg/m	Encaixe: ECO-766

ESCALA 1:2



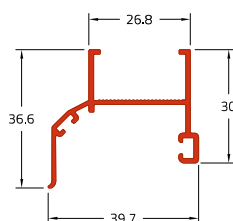
ECO-766	Marco Maxim-Ar
0.304 Kg/m	Encaixe: ECO-765

ESCALA 1:2



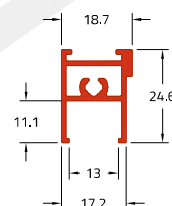
ECO-767	Marco Maxim-Ar
0.412 Kg/m	Encaixe: ECO-766

ESCALA 1:2



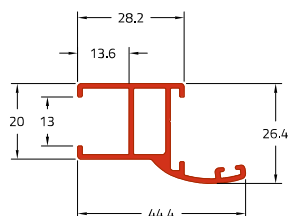
ECO-764	Travessa Superior da Folha
0.366 Kg/m	Encaixe: ECO-763

ESCALA 1:2



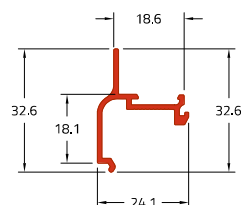
ECO-763	Montante e Travessa Inferior da Folha
0.480 Kg/m	Encaixe: ECO-764

ESCALA 1:2



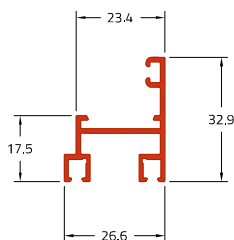
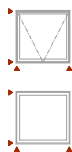
ECO-762	Inversor para Baguele
0.238 Kg/m	Encaixe: ECO-765/ECO-766

ESCALA 1:2



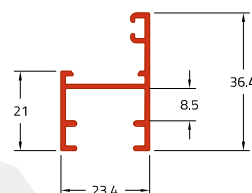
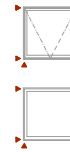
ECO-579	Marco Maxim-Ar
0.360 Kg/m	Encaixe: Montagem 45°

ESCALA 1:2



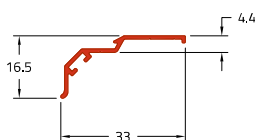
ECO-779	Marco Maxim-Ar
0.338 Kg/m	Encaixe: Montagem 45°

ESCALA 1:2



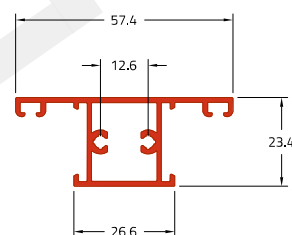
VT-083	Pingadeira
0.150 Kg/m	Encaixe: ECO-579

ESCALA 1:2



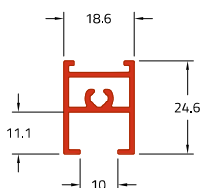
ECO-586	Coluna com Olhal
0.600 Kg/m	Encaixe: ECO-579/ ECO-779

ESCALA 1:2



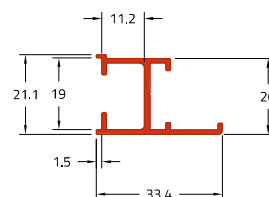
ECO-591	Travessa Superior da Folha
0.350 Kg/m	Encaixe: ECO-590

ESCALA 1:2



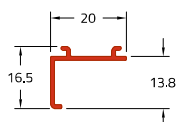
ECO-590	Montante e Travessa Inferior da Folha
0.300 Kg/m	Encaixe: ECO-591

ESCALA 1:2



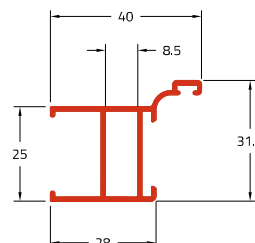
ECO-584	Pingadeira
0.115 Kg/m	Encaixe: ECO-591

ESCALA 1:2



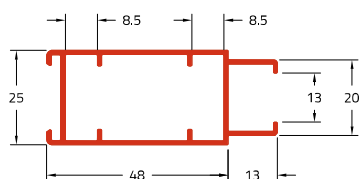
ECO-732	Marco Porta de Giro
0.430 Kg/m	Encaixe: Montagem 45°

ESCALA 1:2



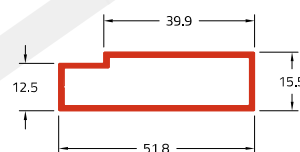
ECO-730	Montante e Travessa da Folha
0.590 Kg/m	Encaixe: Montagem 45°

ESCALA 1:2



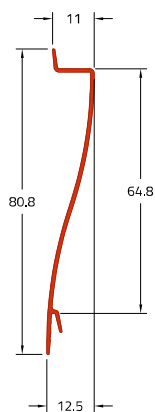
ECO-752	Complemento do Marco
0.496 Kg/m	Encaixe: Marcos da Janela

ESCALA 1:2



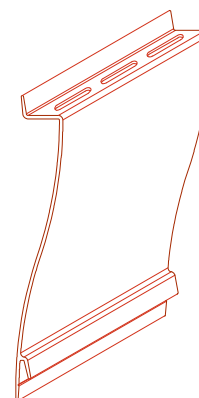
VZ-725	Veneziana
0.242 Kg/m	-

ESCALA 1:2



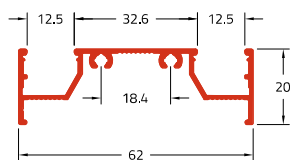
US-725	Veneziana Ventilada
0.242 Kg/m	-

ESCALA 1:2



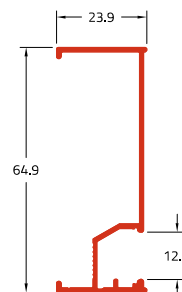
ECO-784	Marco Travessa
0,455 Kg/m	Encaixe: ECO-783

ESCALA 1:2



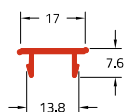
ECO-783	Marco Montante
0,412 Kg/m	Encaixe: ECO-784

ESCALA 1:2



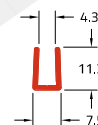
AL-013	Tampa do Marco
0,117 Kg/m	Encaixe: ECO-784/ECO-783

ESCALA 1:2



ECO-782	Perfil "U"
0,090 Kg/m	-

ESCALA 1:2



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CHU-838	Chumbador para Contramarco	7.011
CHU-840	Chumbador para Contramarco	7.012
CHU-864	Chumbador para Contramarco	7.012
CHU-PER01	Chumbador para Contramarco	7.011
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FIT-211	Escova de Vedação com Barreira Plastica 5 x 8mm	7.014
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GUA-239	Guarnição em EPDM	7.014
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GUI-045	Guia da Persiana	7.003
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PAR-428PH	Parafuso Auto Atarraxante 4,8 x 38mm	7.013
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PAR-434PH	Parafuso Auto Atarraxante 3,9 x 9,5mm	7.012
PAR-436PH	Parafuso Auto Atarraxante 3,9 x 28mm	7.012
PAR-437PH	Parafuso Auto Atarraxante 3,5 x 9,5mm	7.012
PAR-693PH	Parafuso Auto Atarraxante 4,2 x 25mm	7.013
PAR-694PH	Parafuso Auto Atarraxante 4,2 x 32mm	7.013
PAR-703PH	Parafuso Auto Atarraxante 3,5 x 9,5mm	7.012
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TAM-720	Tampa Superior e Inferior para Montantes	7.002
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UN-105	Guia Deslizante	7.001
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COMPONENTES

JANELAS E PORTAS DE CORRER

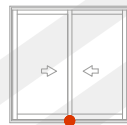
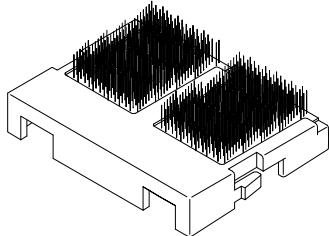
Sistema

UNION®

NYL-412

Caixa de Dreno

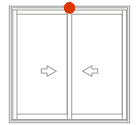
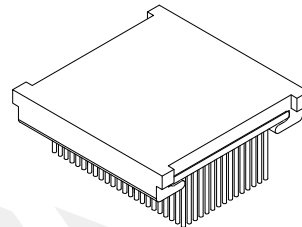
Aplicável nos Perfis:
Marcos Inferiores



NYL-413

Vedação Superior

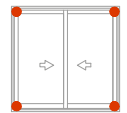
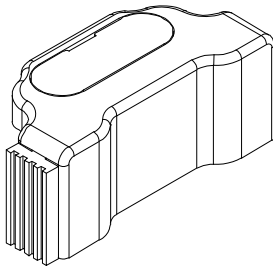
Aplicável nos Perfis:
Marcos Superiores



NYL-414

Batedeira

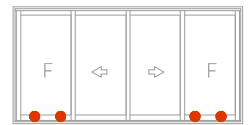
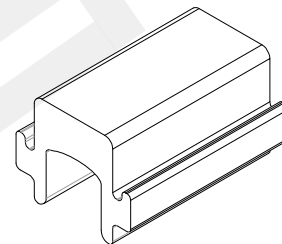
Aplicável nos Perfis:
Marcos Inferiores e
Superiores



NYL-443

Calço da Folha Fixa

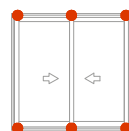
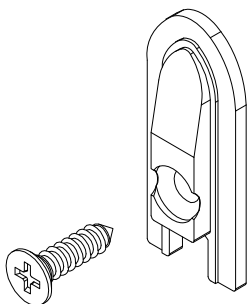
Aplicável nos Perfis:
Travessas inferiores de
janela e porta



UN-105

Guia Deslizante

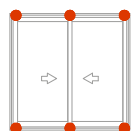
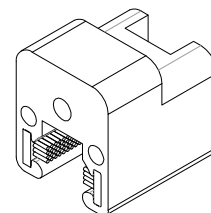
Aplicável nos Perfis:
Montantes Laterais
e Centrais



UN-128

Trava da Guia

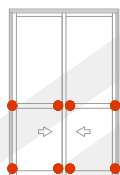
Aplicável nos Perfis:
Montantes Laterais
e Centrais



PERFIS, PROJETOS, CÓDIGOS E SISTEMAS ESTÃO SUJEITOS A ALTERAÇÃO SEM AVISO PRÉVIO.

NYL-042

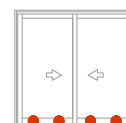
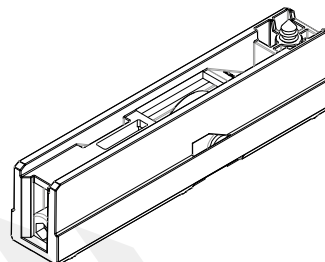
Tampa Furo 3/8"



ROL-464NJ

Roldana com Rolamento para Janela (30 kg por roldana)

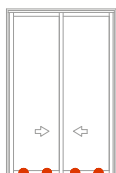
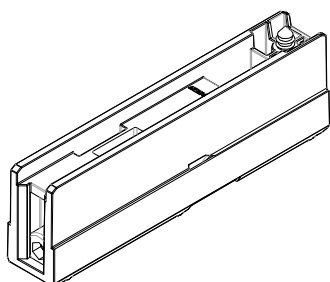
Aplicável nos Perfis: Travessas inferiores de janela



ROL-464NP

Roldana com Rolamento para Porta (30 kg por roldana)

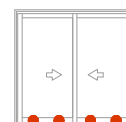
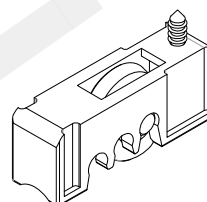
Aplicável nos Perfis: Travessas inferiores de porta



ROL-465R

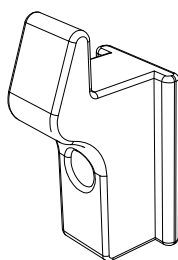
Roldana com ou sem Rolamento para Janela (5 kg por roldana - s/rol. / 20 kg por roldana - c/rol.)

Aplicável nos Perfis: Travessas inferiores de porta



CON-370

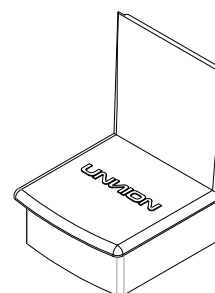
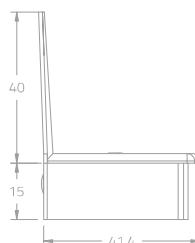
Contra Fecho



TAM-720

Tampa Superior e Inferior para Montantes

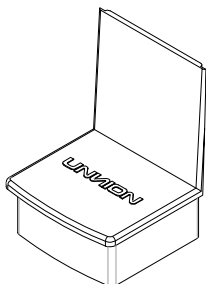
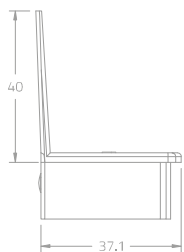
Aplicável nos Perfis: ECO-720 / ECO-721



TAM-761

Tampa Superior e Inferior para Montantes

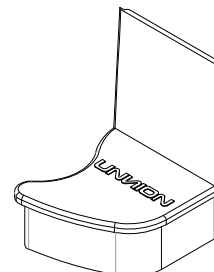
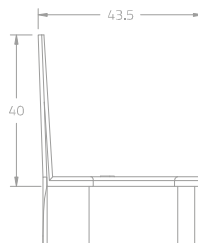
Aplicável nos Perfis: ECO-760 / ECO-761



TAM-796

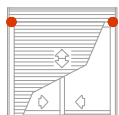
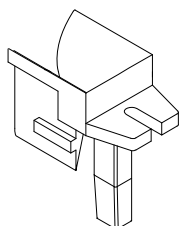
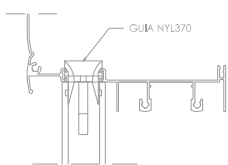
Tampa Superior e Inferior para Montantes

Aplicável nos Perfis: ECO-795 / ECO-796



NYL-370

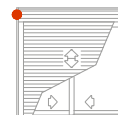
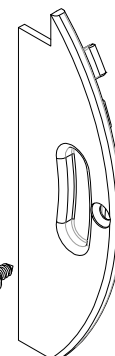
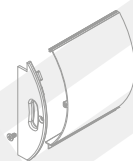
Guia da Persiana



TAM-773

Tampa da Persiana

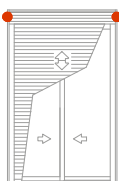
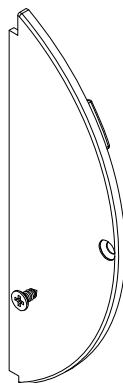
Aplicável no Perfil: ECO-773



TAM-791

Tampa da Persiana

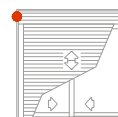
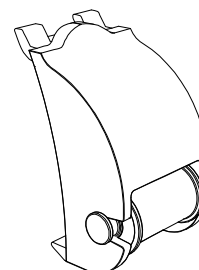
Aplicável no Perfil: ECO-791



GUI-045

Guia da Persiana

Aplicável nos Perfis: ECO-773 / ECO-791



COMPONENTES

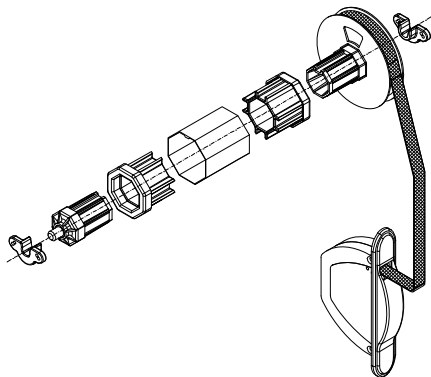
JANELAS E PORTAS DE CORRER

Sistema

UNION®

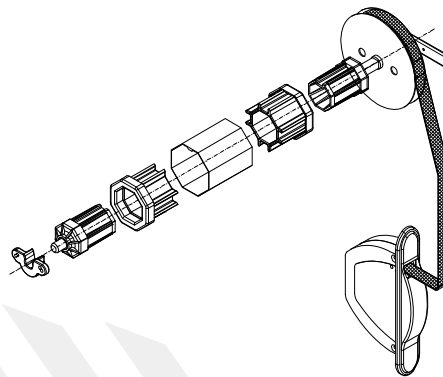
REC-8118

Recolhedor



REC-8155

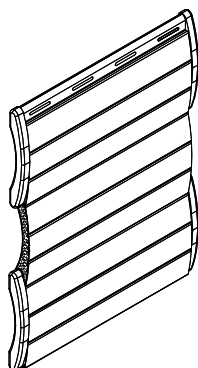
Recolhedor



Palheta*

Persiana Integrada com ventilação

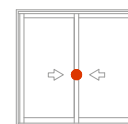
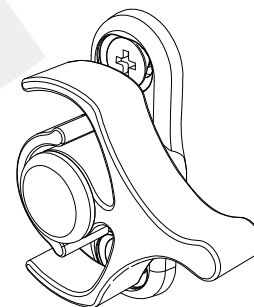
*Verificar com fornecedor



TRI-7520

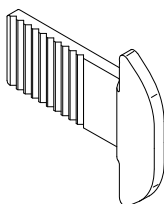
Fecho Central

Aplicável no Perfil:
ECO-743



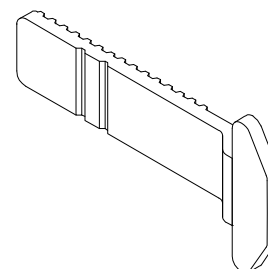
TRA-007

Trava para fecho 32mm



TRA-014

Trava para fecho 38mm



COMPONENTES

JANELAS E PORTAS DE CORRER

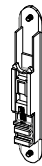
Sistema

UNION[®]

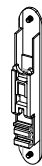
FEC-7411

Fecho Concha para Janela

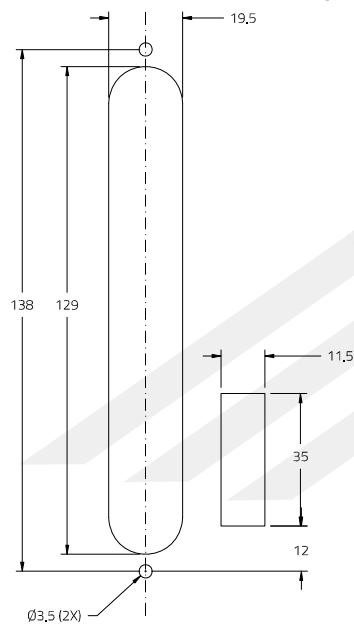
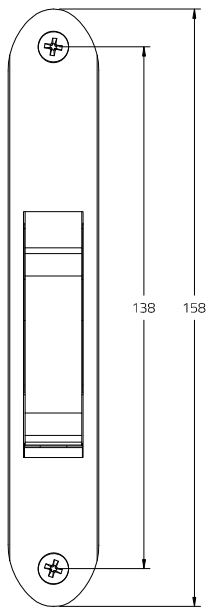
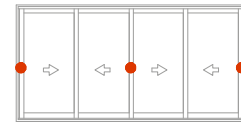
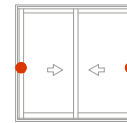
Aplicável nos Perfis:
Montantes Laterais e Centrais
sem engate



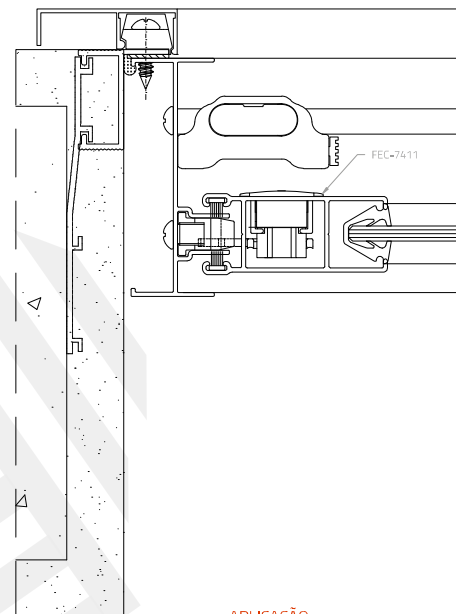
OPÇÃO
COM MOLLA



OPÇÃO
SEM MOLLA



VISTAS
ESCALA 1:2

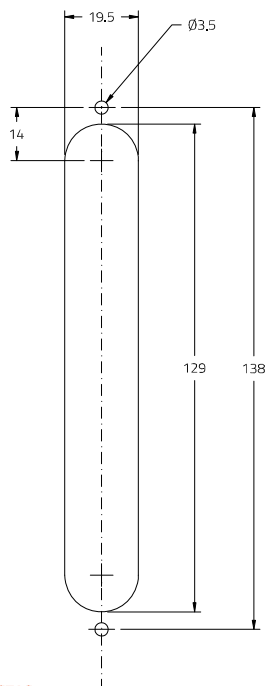
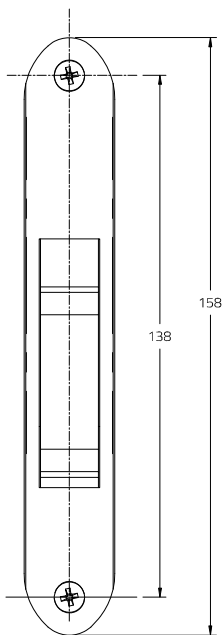
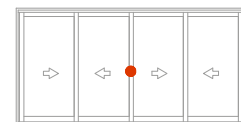


APLICAÇÃO
ESCALA 1:2

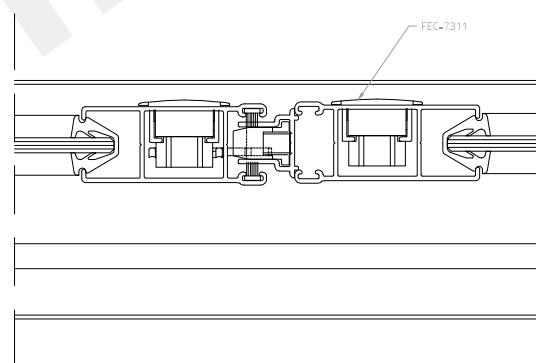
CON-7311

Concha Cega para Janela

Aplicável nos Perfis:
Montantes Centrais
sem engate



VISTAS
ESCALA 1:2

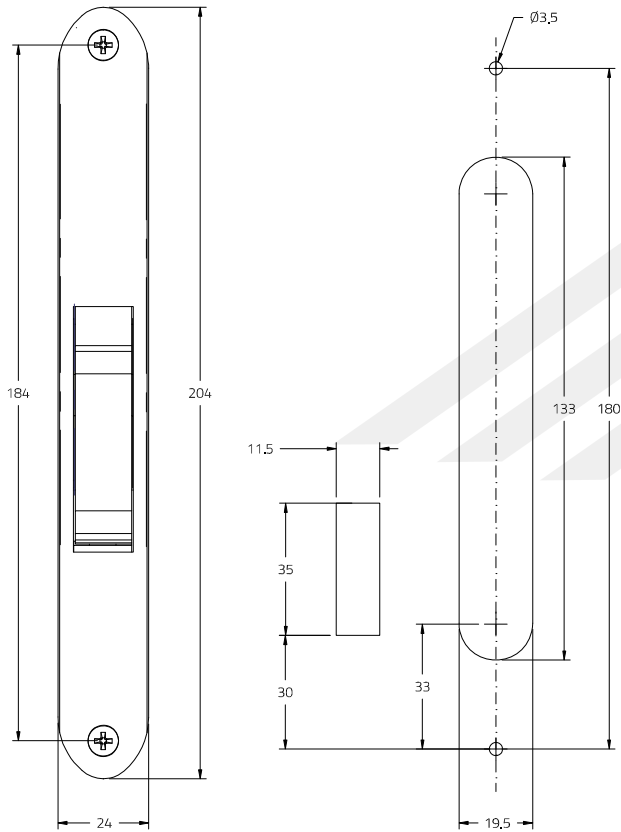
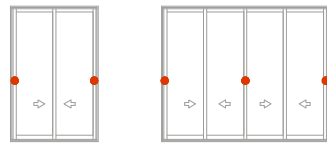


APLICAÇÃO
ESCALA 1:2

PERFIS, PROJETOS, CÓDIGOS E SISTEMAS ESTÃO SUJEITOS A ALTERAÇÃO SEM AVISO PRÉVIO.

FEC-012

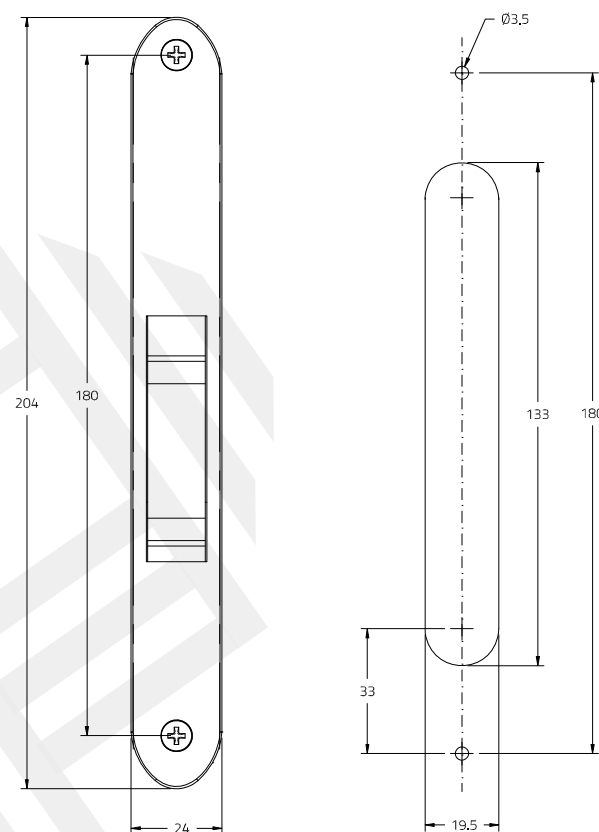
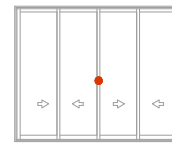
Fecho Concha para Porta



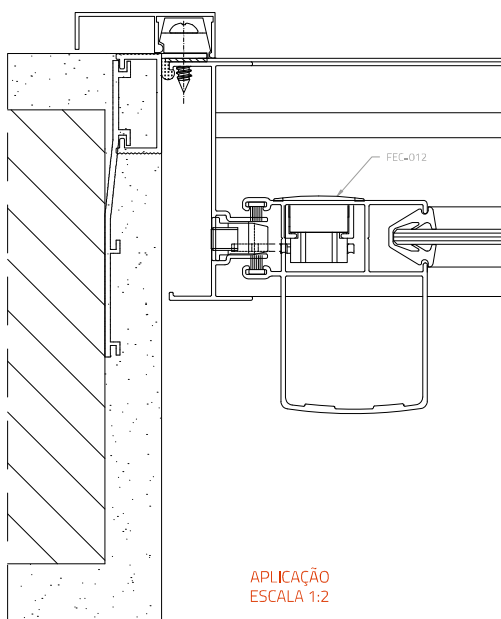
VISTAS
ESCALA 1:2

CON-1013

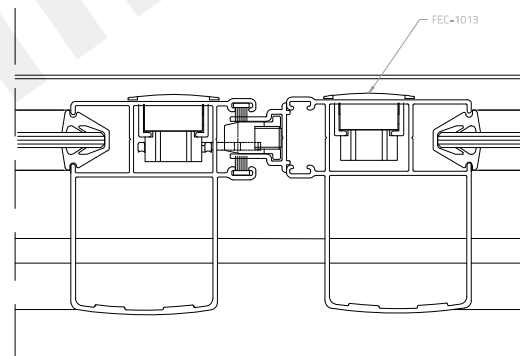
Concha Cega para Porta



VISTAS
ESCALA 1:2



APLICAÇÃO
ESCALA 1:2



APLICAÇÃO
ESCALA 1:2

PERFIS, PROJETOS, CÓDIGOS E SISTEMAS ESTÃO SUJEITOS A ALTERAÇÃO SEM AVISO PRÉVIO.

COMPONENTES

JANELAS E PORTAS DE CORRER

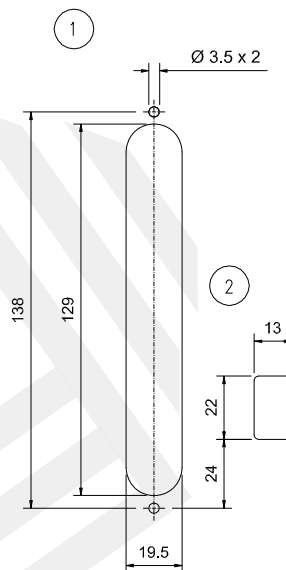
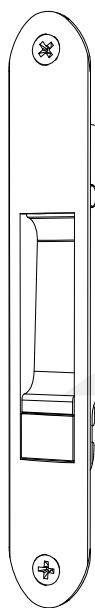
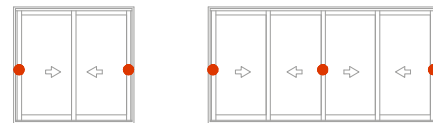
Sistema

UNION®

CON-7611

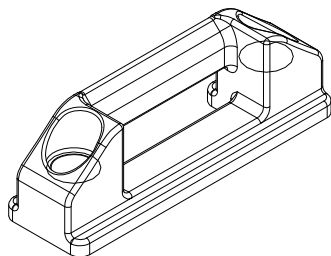
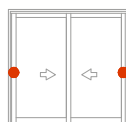
Fecho Concha para Janela (Gatilho)

Aplicável nos Perfis:
Montantes Laterais e Centrais
sem engate



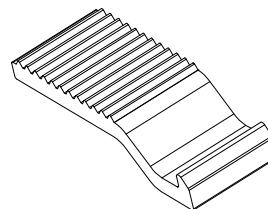
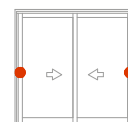
CTF-7611

Contra Fecho para CON-7611



LIN-7611

Lingueta para CON-7611



PERFIS, PROJETOS, CÓDIGOS E SISTEMAS ESTÃO SUJEITOS A ALTERAÇÃO SEM AVISO PRÉVIO.

COMPONENTES

JANELAS MAXIM-ARES

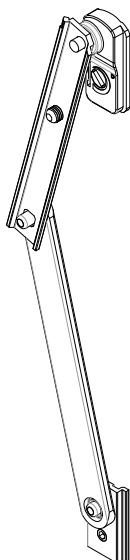
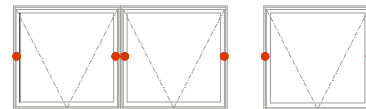
Sistema

UNION®

BRA-(VER TABELA)

Braço para folha maxim-ar

Aplicável nos Perfis:
VT-081 / VT-200
VT-090 / VT-900

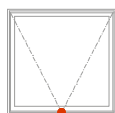
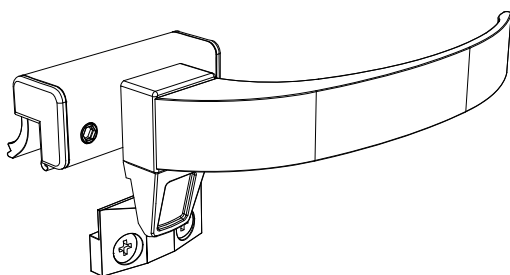


CÓDIGO	DIMENSÃO	LARGURA	ALTURA DA FOLHA		CARGA MÁXIMA
			MÍN. (MM)	MÁX. (MM)	
BRA-705	250	750	270	500	6 KG
BRA-704	400	750	400	650	8 KG
BRA-702	500	750	520	810	10 KG
BRA-703	750	750	810	900	11 KG
BRA-725	810	750	900	1200	15 KG

FEC-009

Fecho para Maxim-ar

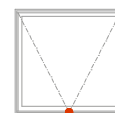
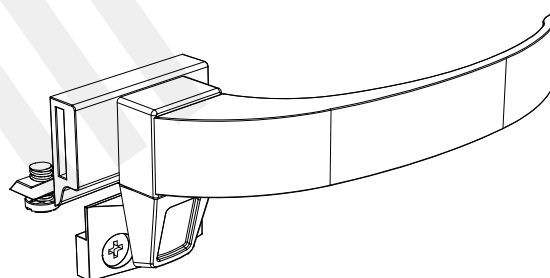
Aplicável nos Perfis
com Baguete



FEC-010

Fecho para Maxim-ar

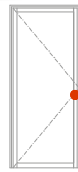
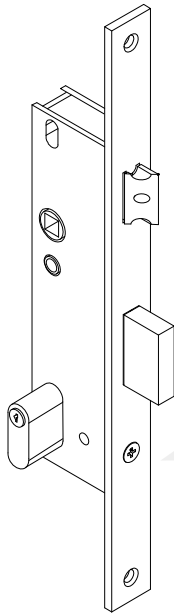
Aplicável nos Perfis
sem Baguete



FRA-822

Fechadura para Porta de Giro

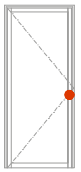
Aplicável no Perfil:
ECO-730



CON-295

Contra Testa para Porta de Giro

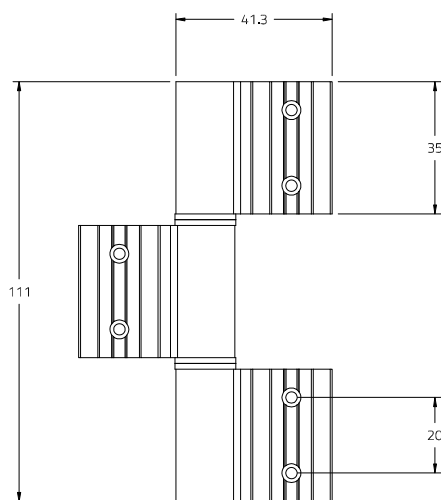
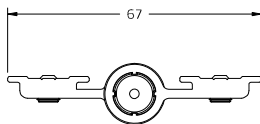
Aplicável no Perfil:
ECO-732



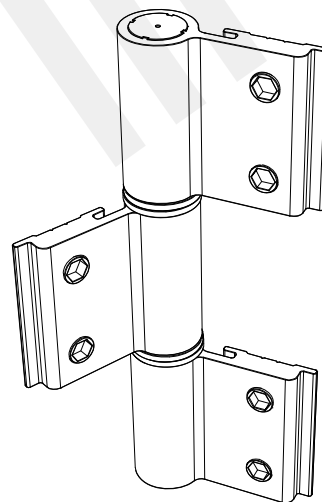
DOB-840

Dobradiça para Porta de Giro

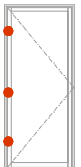
Aplicável nos Perfis:
ECO-732 / ECO-730



VISTAS
ESCALA 1:2



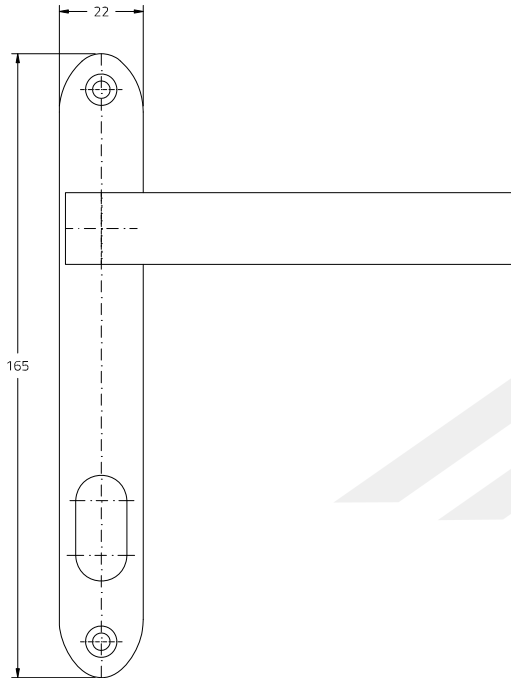
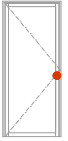
PERSPECTIVA
SEM ESCALA



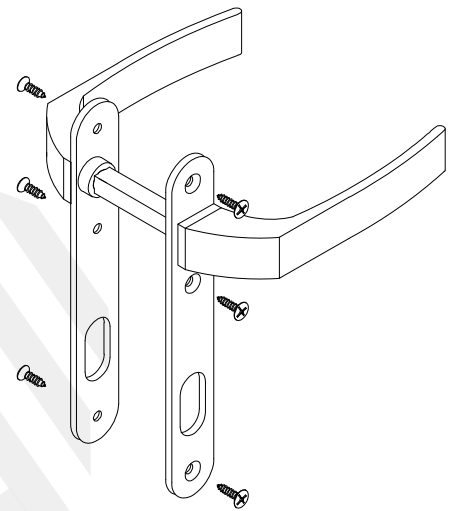
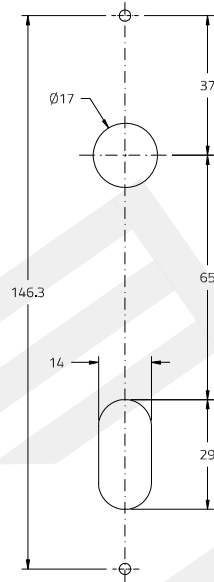
MAC-927

Maçaneta para Porta de Giro

Aplicável no Perfil:
ECO-730



VISTAS
ESCALA 1:2

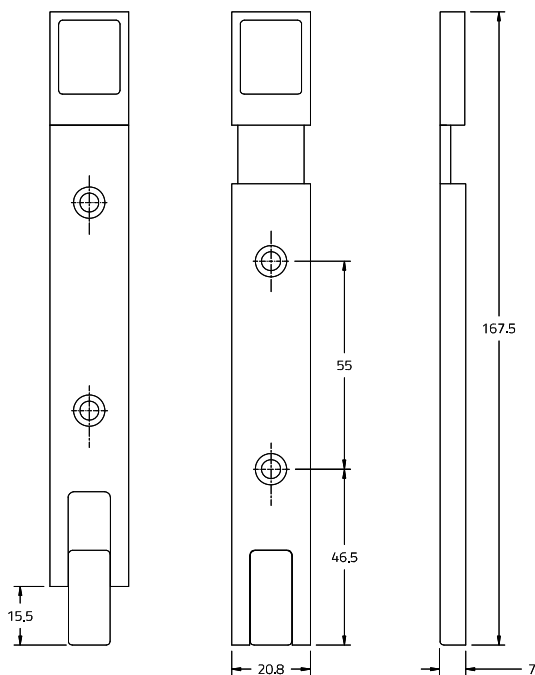
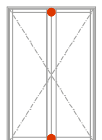


PERSPECTIVA
SEM ESCALA

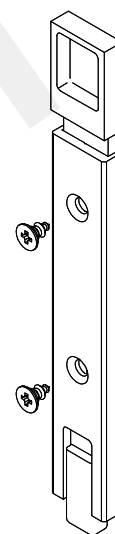
FEC-338

Fecho Unha de Sobrepor

Aplicável no Perfil:
ECO-730



VISTAS
ESCALA 1:2



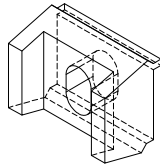
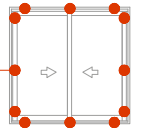
PERSPECTIVA

NYL-190

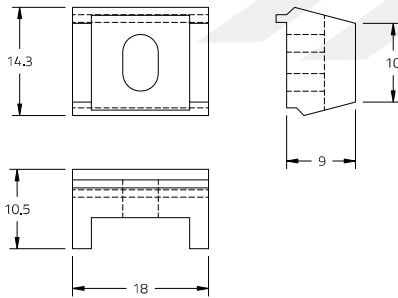
Presilha do Arremate

Aplicável em todas as tipologias

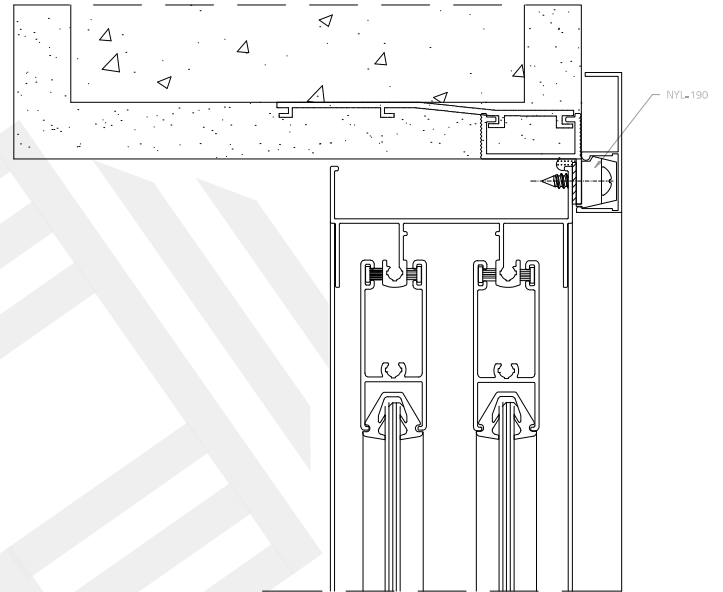
Recomendamos a utilização de 01 peça a cada 500 mm



PERSPECTIVA SEM ESCALA



VISTAS ESCALA 1:2



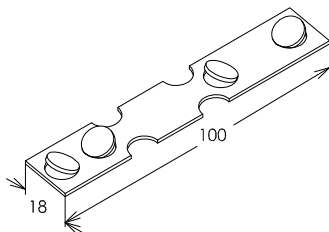
APLICAÇÃO ESCALA 1:2

CHU-PER01

Chumbador para Contramarco

Aplicável nos Perfis: CM-200/CM-ECO

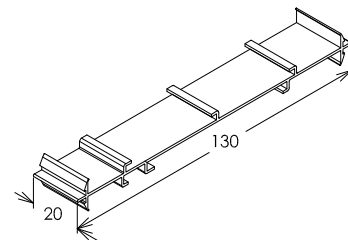
Aço Galvanizado



CHU-838

Chumbador para Contramarco

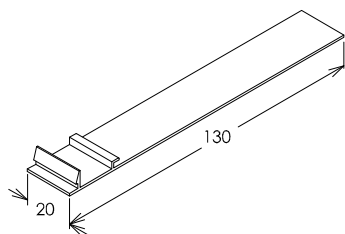
Aplicável no Perfil: CM-200



CHU-840

Chumbador para Contramarco

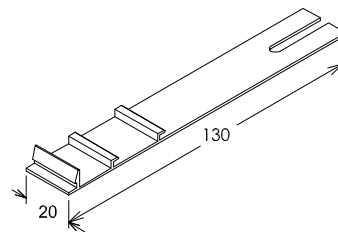
Aplicável no Perfil:
CM-200



CHU-864

Chumbador para Contramarco

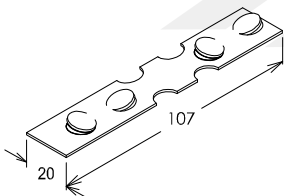
Aplicável nos Perfis:
CM-200/CM-174



CHU-787

Chumbador para Contramarco

Aplicável nos Perfis:
CM-200/CM-060



PAR-437PH

Parafuso Auto Atarraxante
Ø 3,5 x 9,5 mm

- Cabeça Panela
- Fenda Philips
- Inox



PAR-703PH

Parafuso Auto Atarraxante
Ø 3,5 x 9,5 mm

- Cabeça Panela
- Fenda Philips
- Inox



PAR-704PH

Parafuso Auto Atarraxante
Ø 3,9 x 6,5 mm

- Cabeça Panela
- Fenda Philips
- Inox



PAR-434PH

Parafuso Auto Atarraxante
Ø 3,9 x 9,5 mm

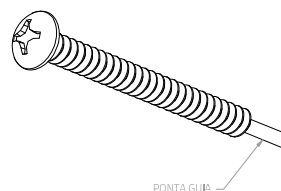
- Cabeça Panela
- Fenda Philips
- Inox



PAR-436PH

Parafuso Auto Atarraxante
Ø 3,9 x 28 mm

- Cabeça Panela
- Fenda Philips
- Inox



PONTA GUIA

PAR-936PH

Parafuso Auto Atarraxante
 $\varnothing 4,2 \times 16 \text{ mm}$

- Cabeça Panela
- Fenda Philips
- Inox



PAR-720PH

Parafuso Auto Atarraxante
 $\varnothing 4,2 \times 16 \text{ mm}$

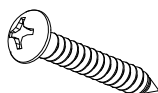
- Cabeça Panela
- Fenda Philips
- Inox



PAR-693PH

Parafuso Auto Atarraxante
 $\varnothing 4,2 \times 25 \text{ mm}$

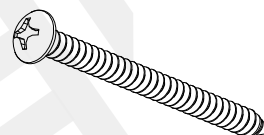
- Cabeça Panela
- Fenda Philips
- Inox



PAR-694PH

Parafuso Auto Atarraxante
 $\varnothing 4,2 \times 32 \text{ mm}$

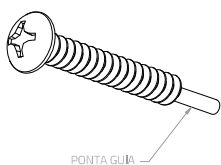
- Cabeça Panela
- Fenda Philips
- Inox



PAR-428PH

Parafuso Auto Atarraxante
 $\varnothing 4,8 \times 38 \text{ mm}$

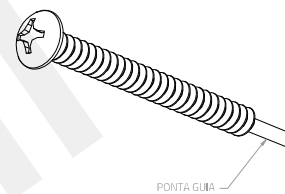
- Cabeça Panela
- Fenda Philips
- Inox



PAR-431PH

Parafuso Auto Atarraxante
 $\varnothing 4,8 \times 50 \text{ mm}$

- Cabeça Panela
- Fenda Philips
- Inox



SIL-706

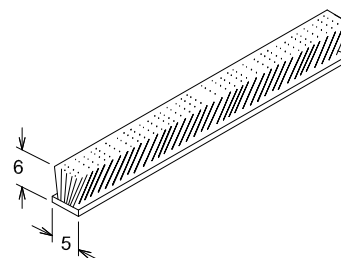
Silicone cura neutra para vedação

- Cores:
 Branco / Preto / Incolor / Cinza



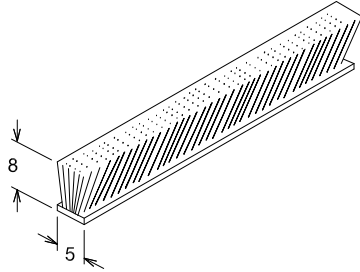
FIT-206

Escova de Vedação sem Barreira Plástica - 5 x 6 mm



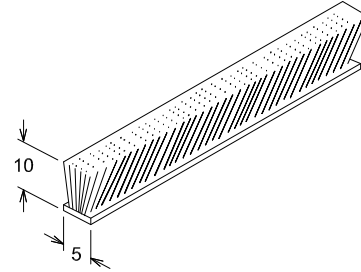
FIT-212

Escova de Vedação sem
Barreira Plástica - 5 x 8 mm



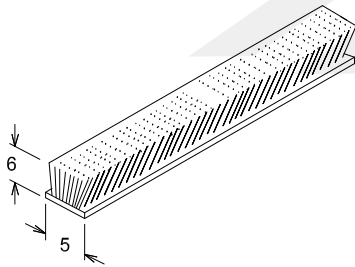
FIT-214

Escova de Vedação com
Barreira Plástica - 5 x 10 mm



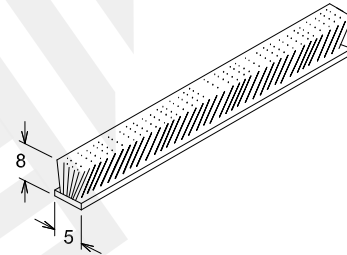
FIT-205

Escova de Vedação com
Barreira Plástica - 5 x 6 mm



FIT-211

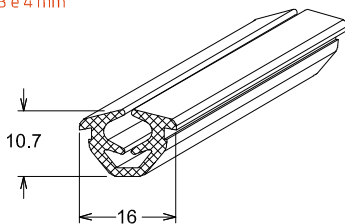
Escova de Vedação com
Barreira Plástica - 5 x 8 mm



GUA-284

Guarnição em EPDM

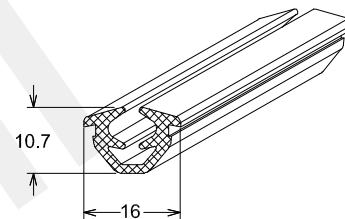
Para vidro de 3 e 4 mm



GUA-283

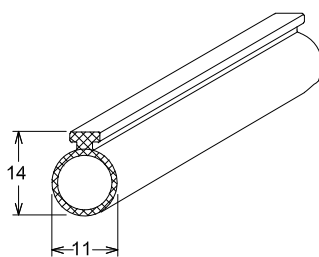
Guarnição em EPDM

Para vidros de 5 e 6 mm



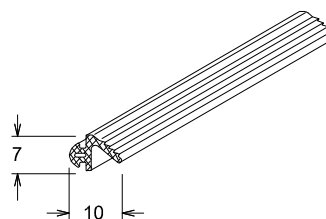
GUA-007

Guarnição em EPDM



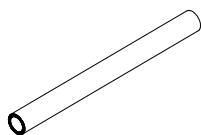
GUA-239

Guarnição em EPDM



GUA-006

Guarnição em EPDM



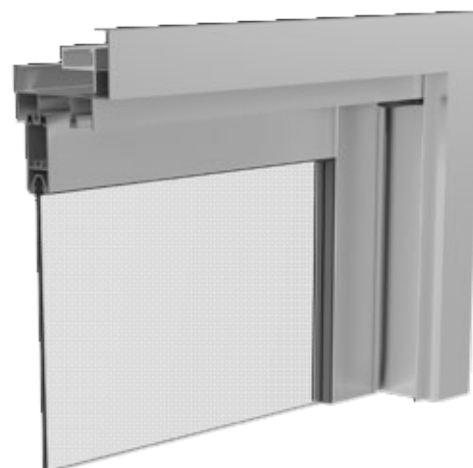
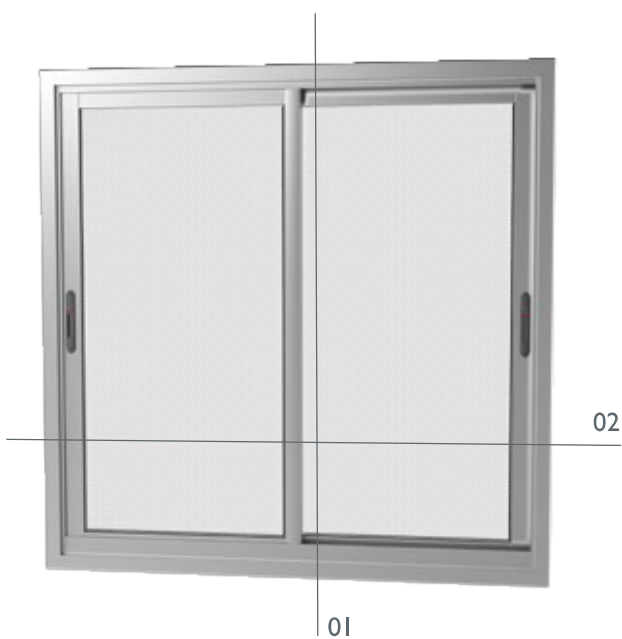
DETALHES 3D

JANELA DE CORRER 2 FOLHAS

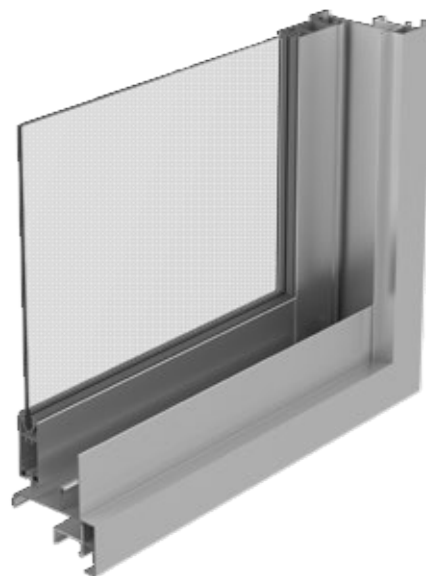
Sistema

UNION®

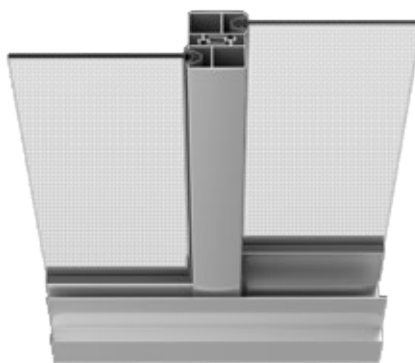
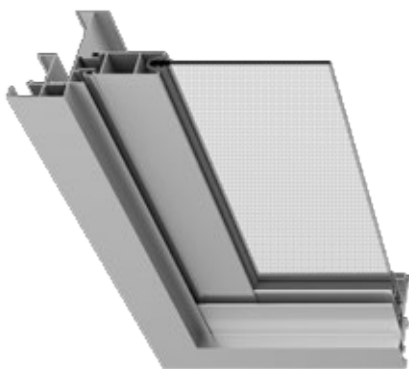
ELEVAÇÃO



CORTE 01

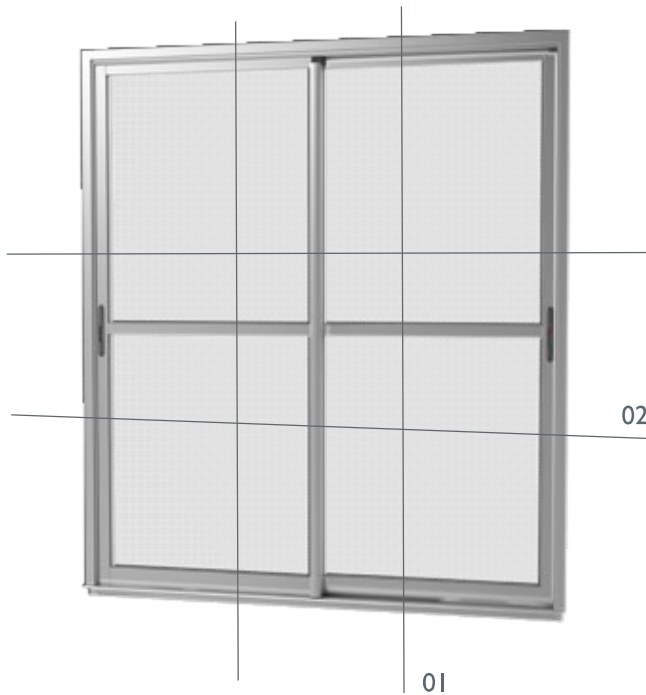


CORTE 02

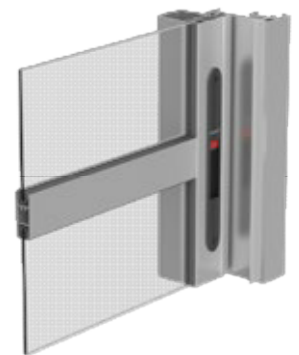
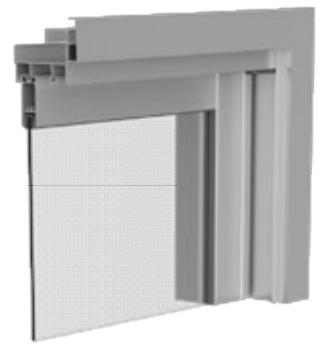


PERFILS, PROJETOS, CÓDIGOS E SISTEMAS ESTÃO SUJEITOS A ALTERAÇÃO SEM AVISO PRÉVIO.

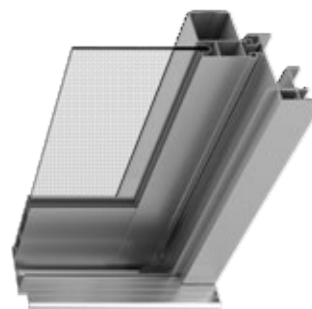
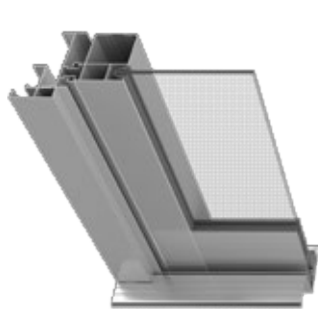
ELEVAÇÃO



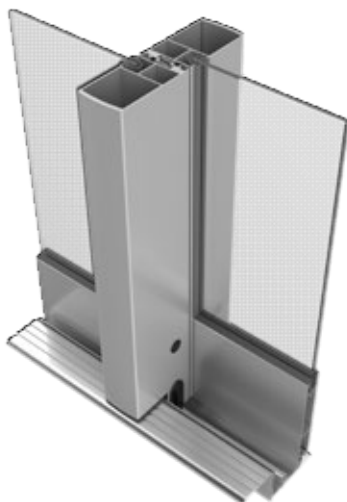
CORTE 01



CORTE 02



ECO796 + ECO796



ECO720 + ECO720

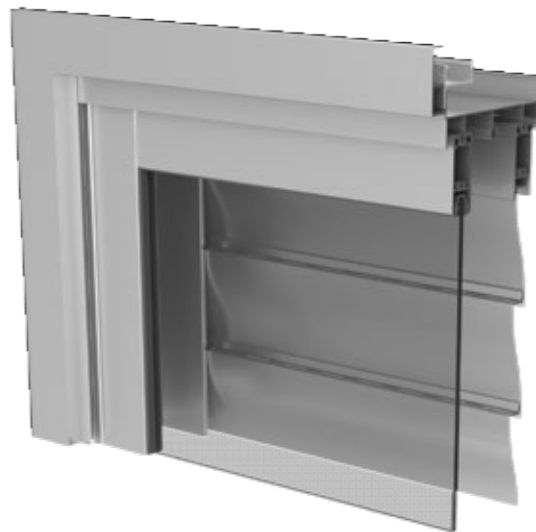
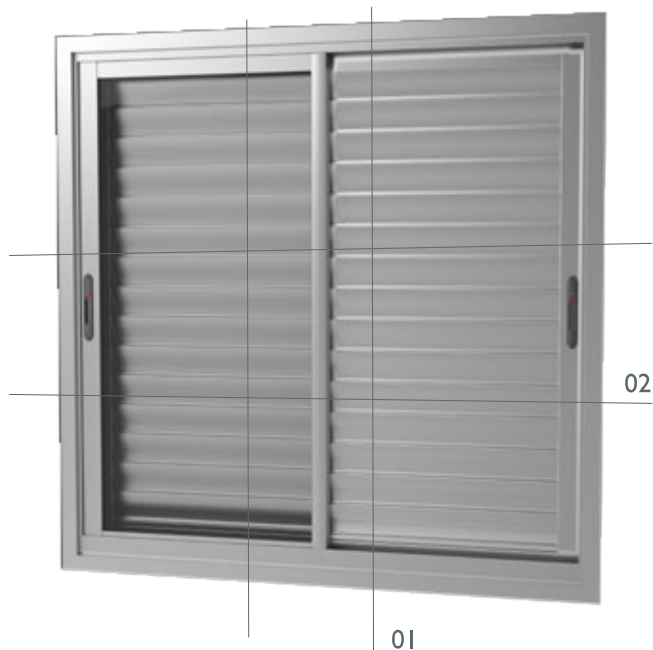
DETALHES 3D

JANELA DE CORRER VENEZIANA
3 PLANOS

Sistema

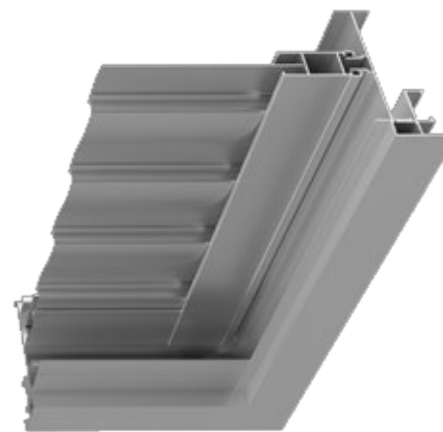
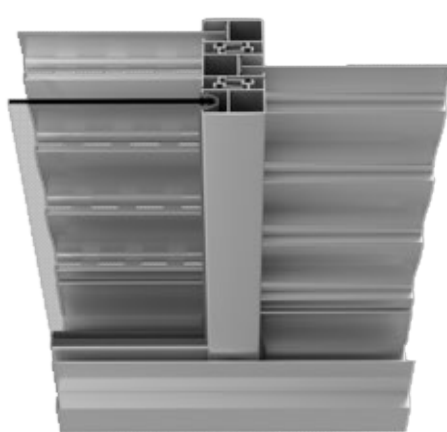
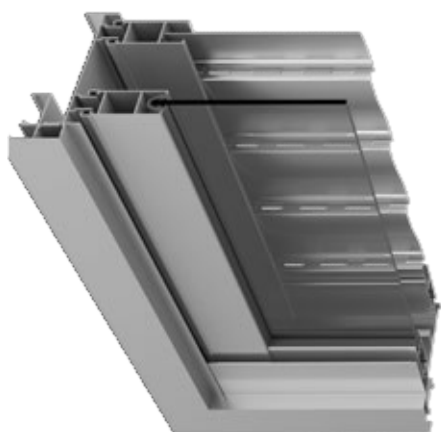
UNION[®]

ELEVAÇÃO



CORTE 01

CORTE 02



PERFIS, PROJETOS, CÓDIGOS E SISTEMAS ESTÃO SUJEITOS A ALTERAÇÃO SEM AVISO PRÉVIO.

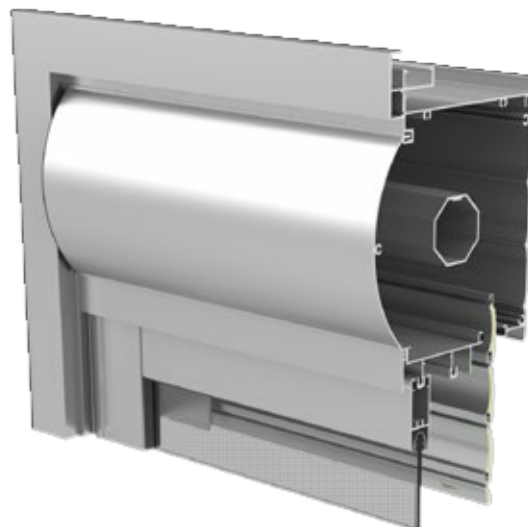
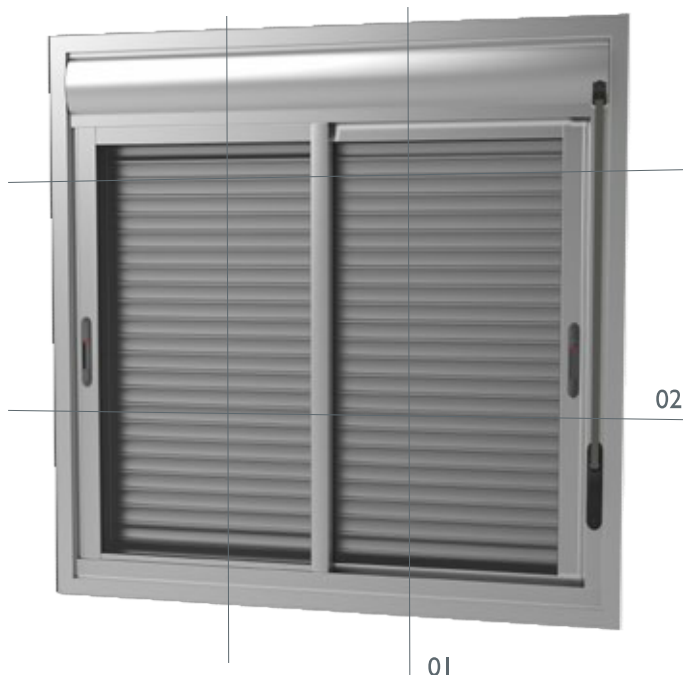
DETALHES 3D

JANELA DE CORRER INTEGRADA
2 FOLHAS

Sistema

UNION[®]

ELEVAÇÃO



CORTE 01

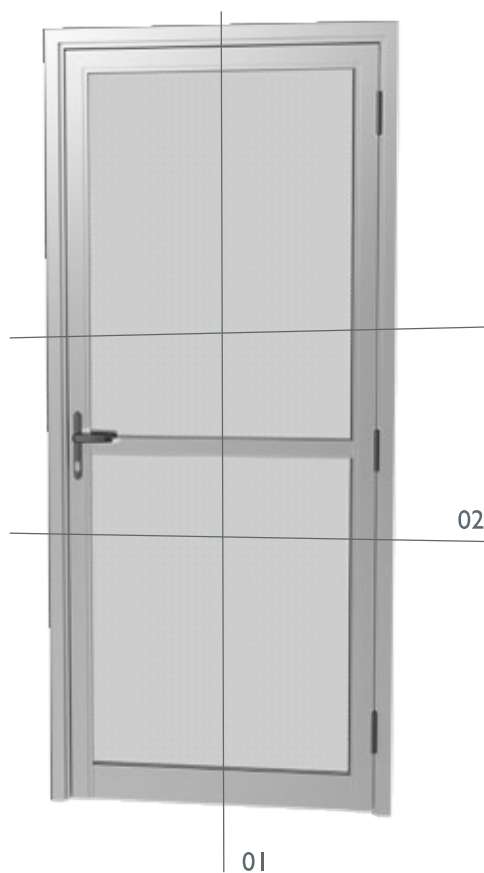


CORTE 02

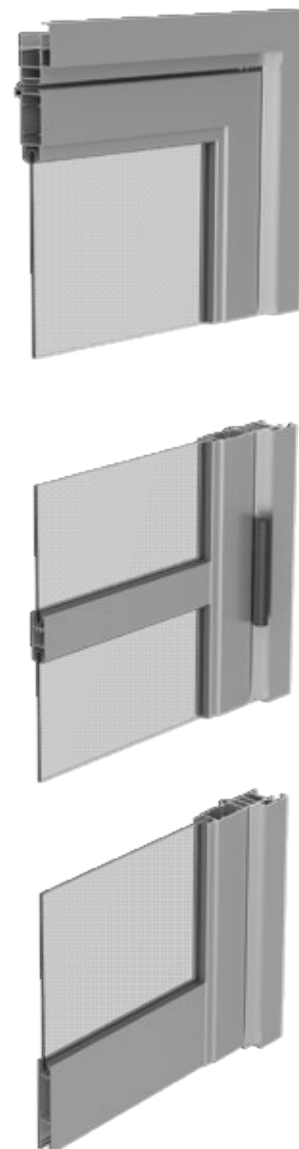


PERFILS, PROJETOS, CÓDIGOS E SISTEMAS ESTÃO SUJEITOS A ALTERAÇÃO SEM AVISO PRÉVIO.

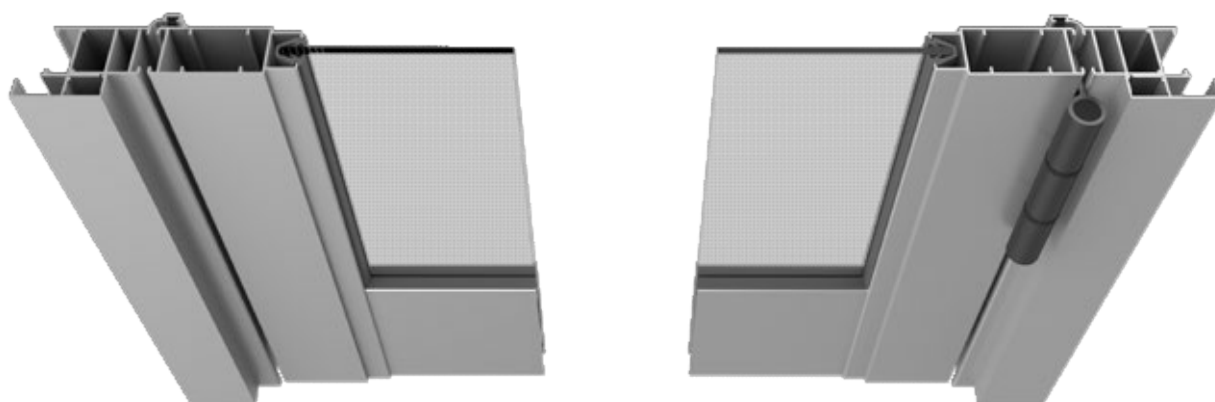
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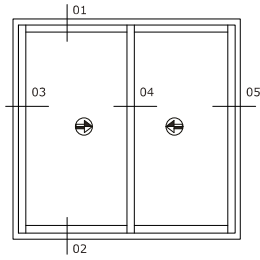
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CORTE 02

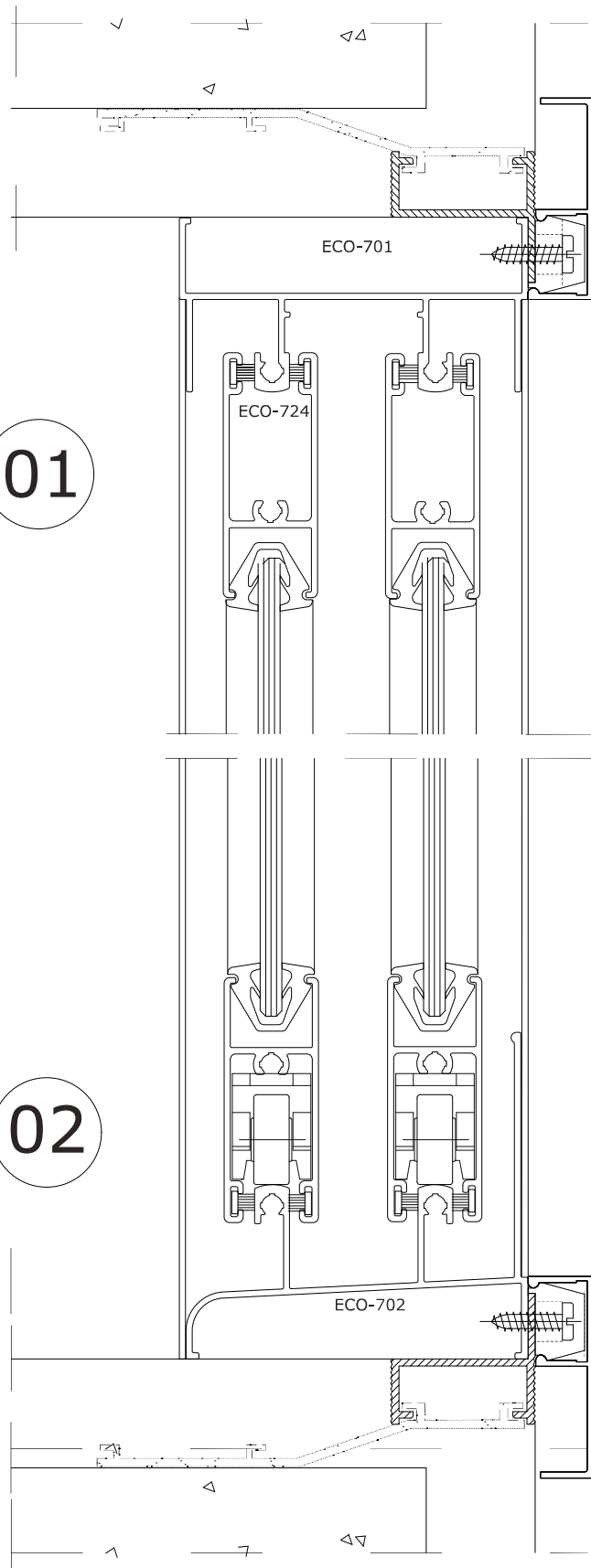


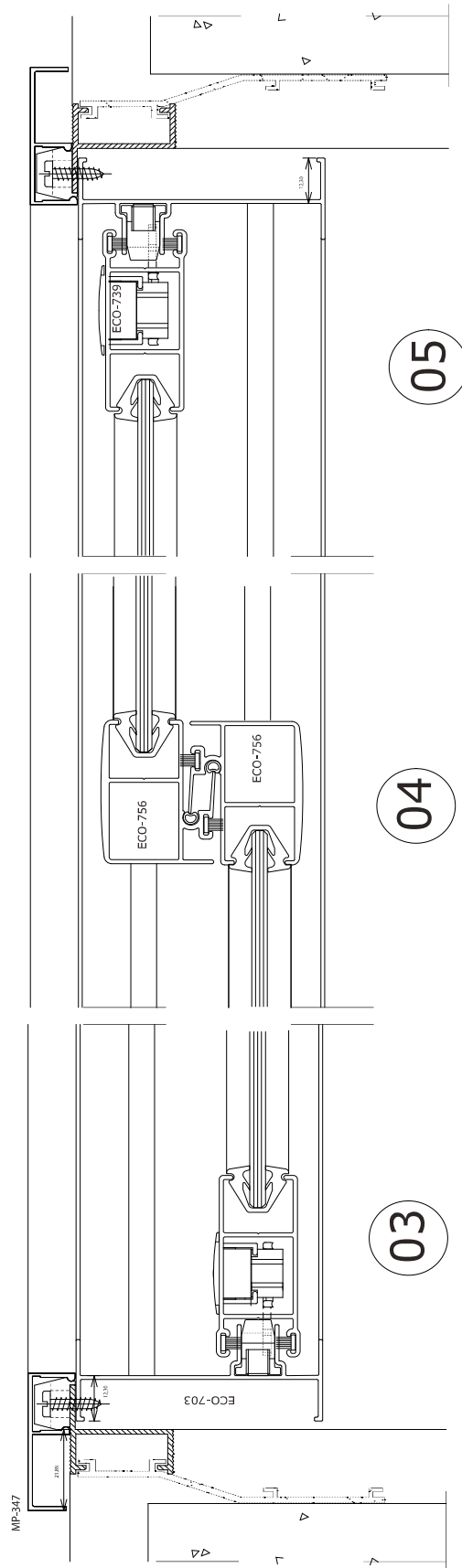
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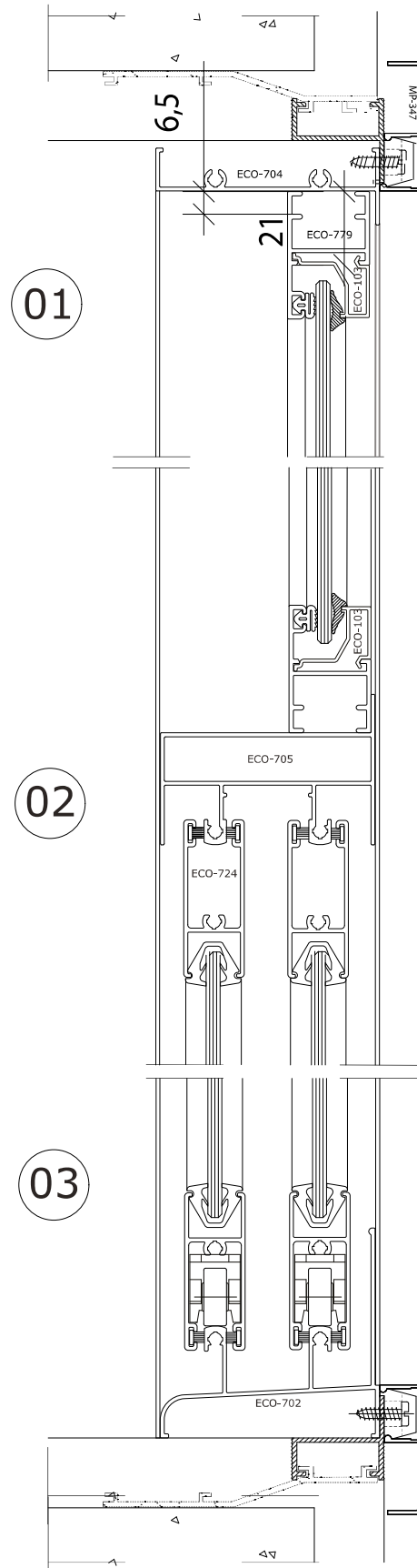
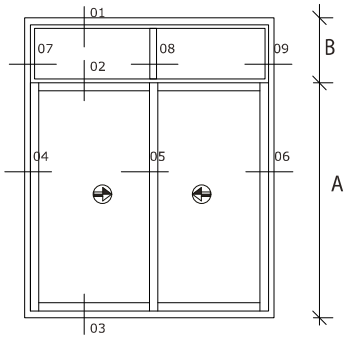
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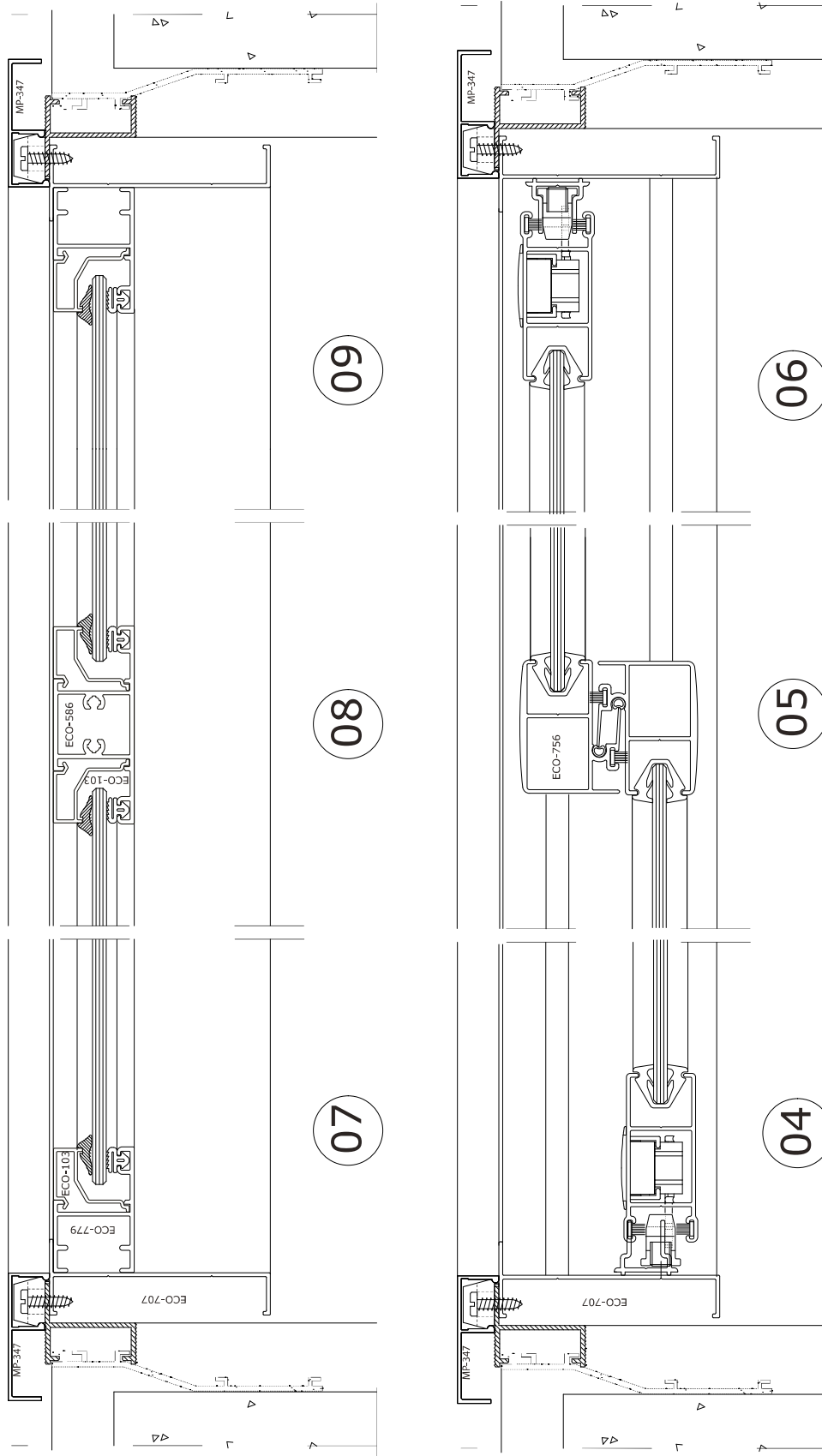




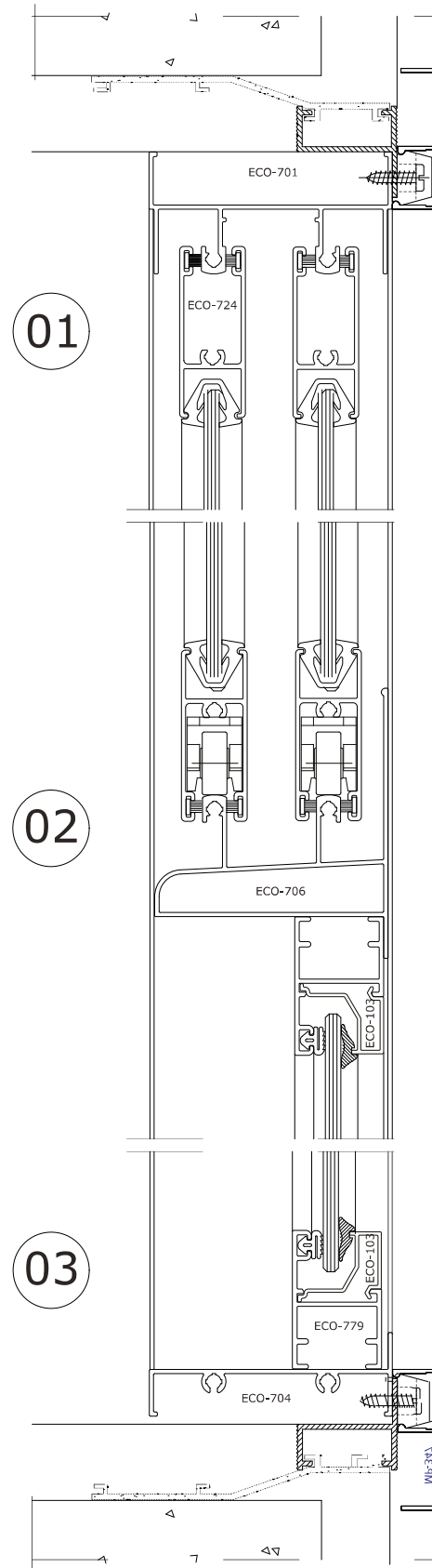
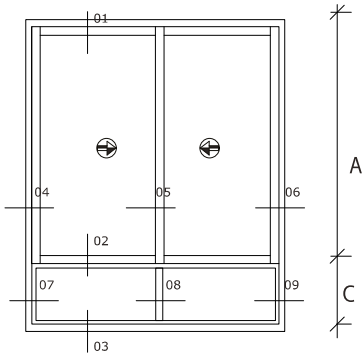
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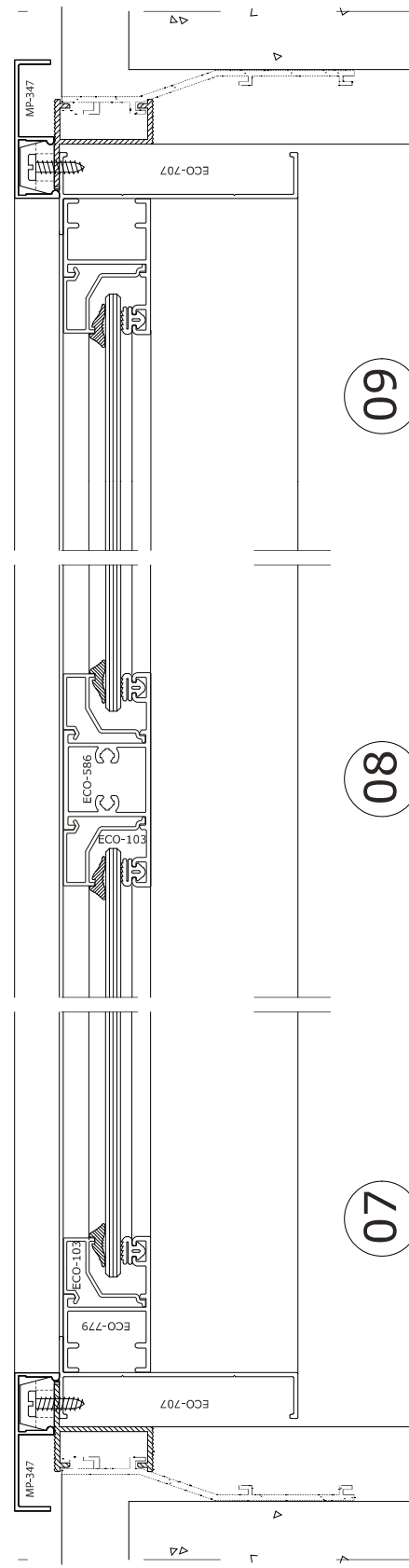
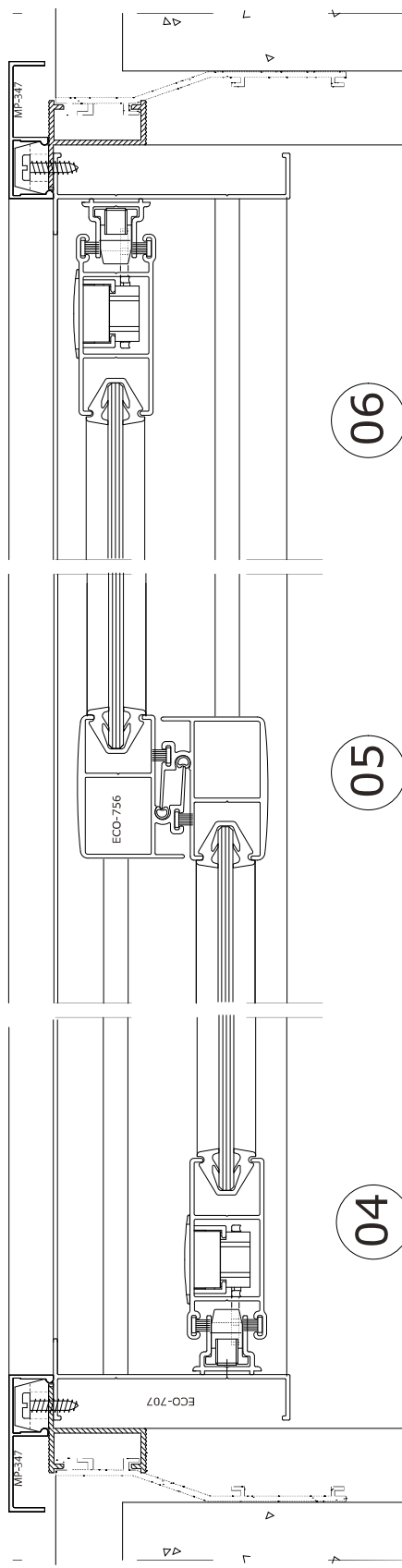
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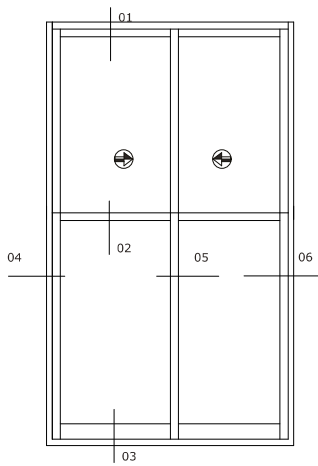
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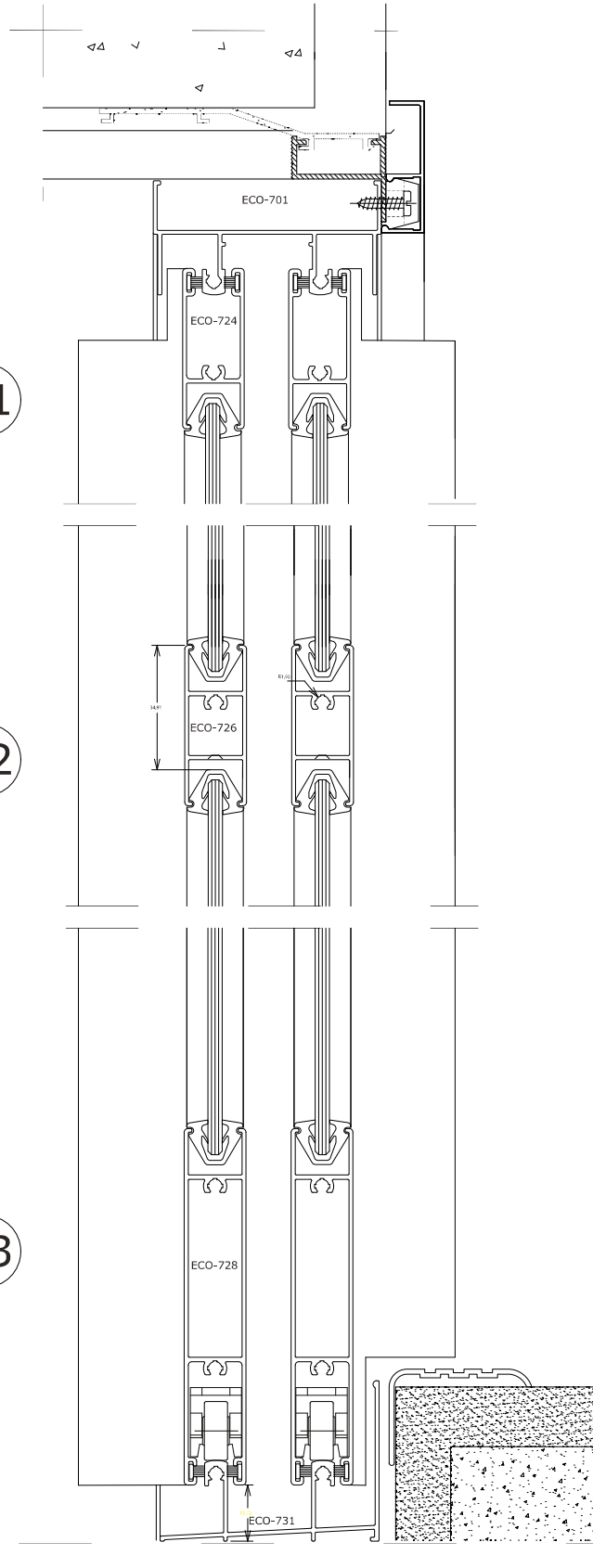
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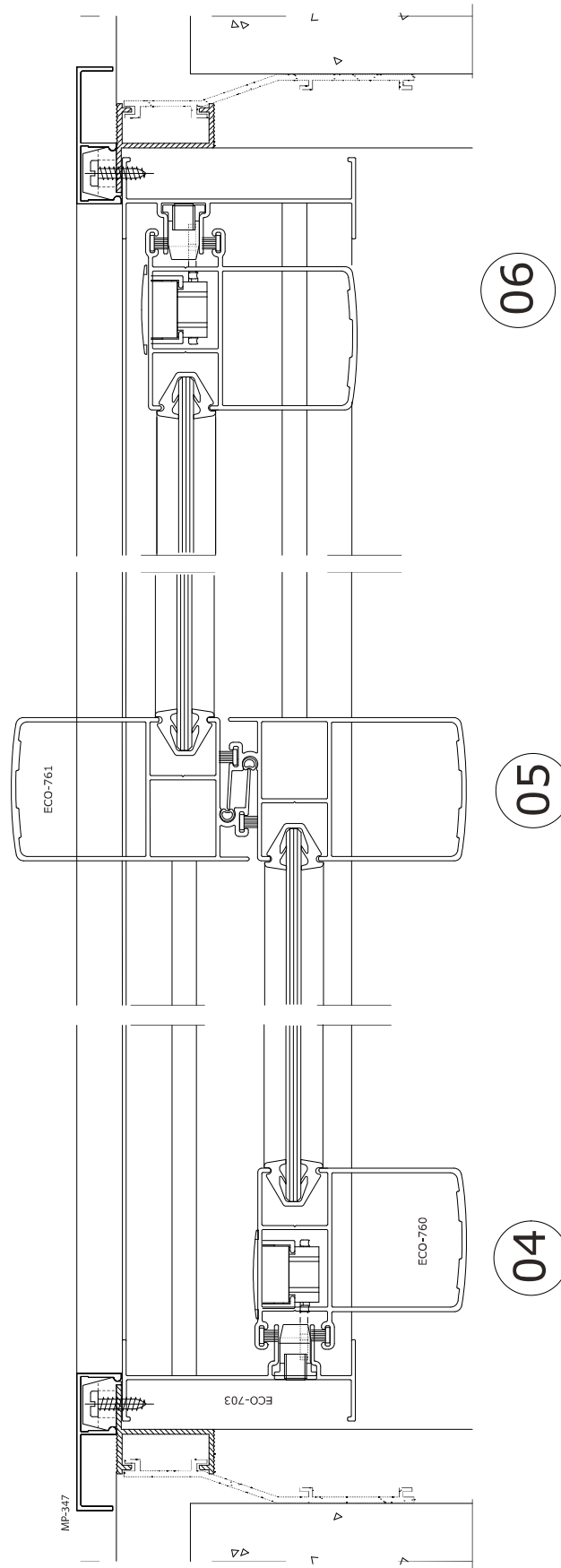
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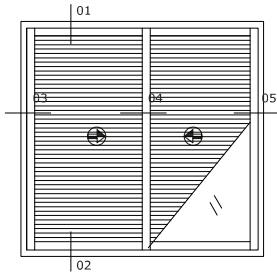


06

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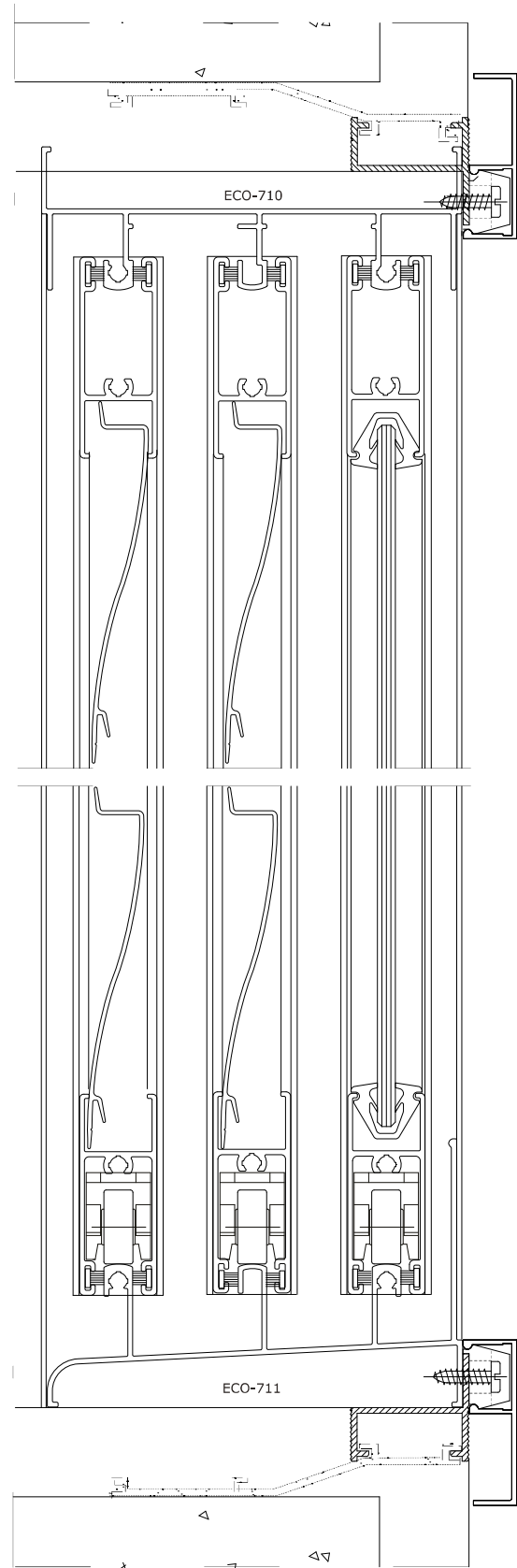
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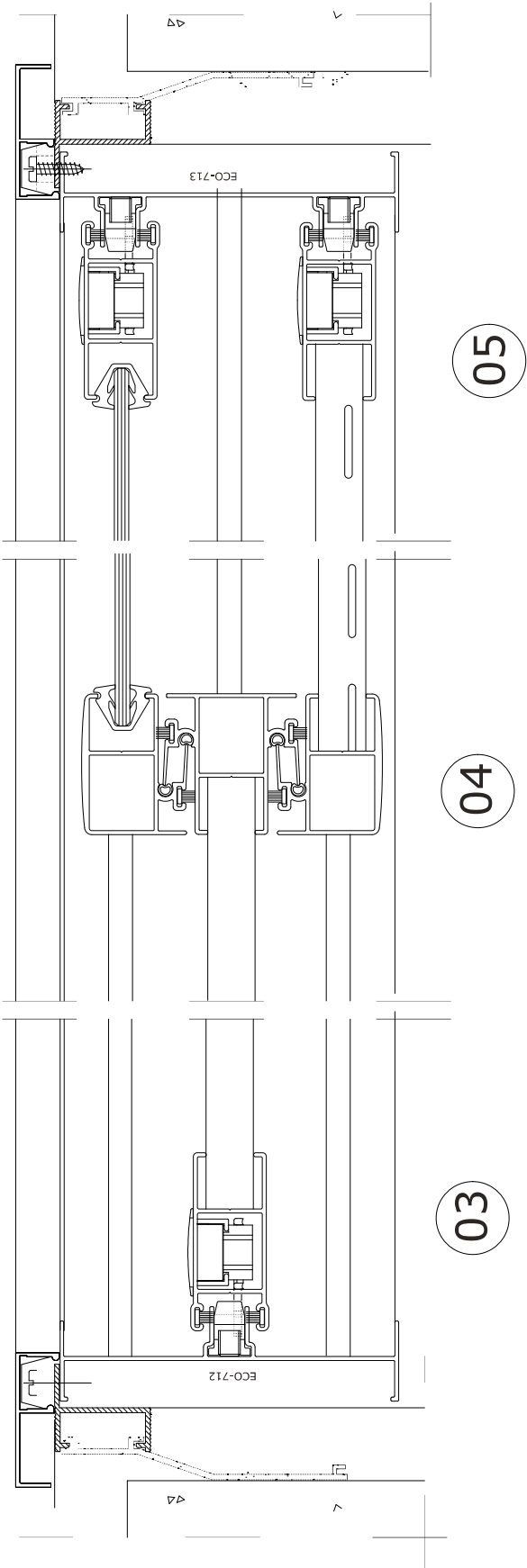


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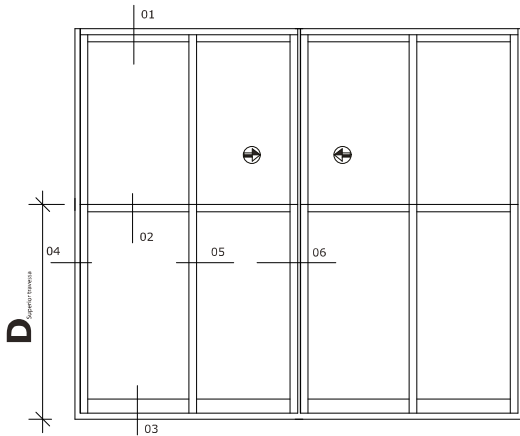
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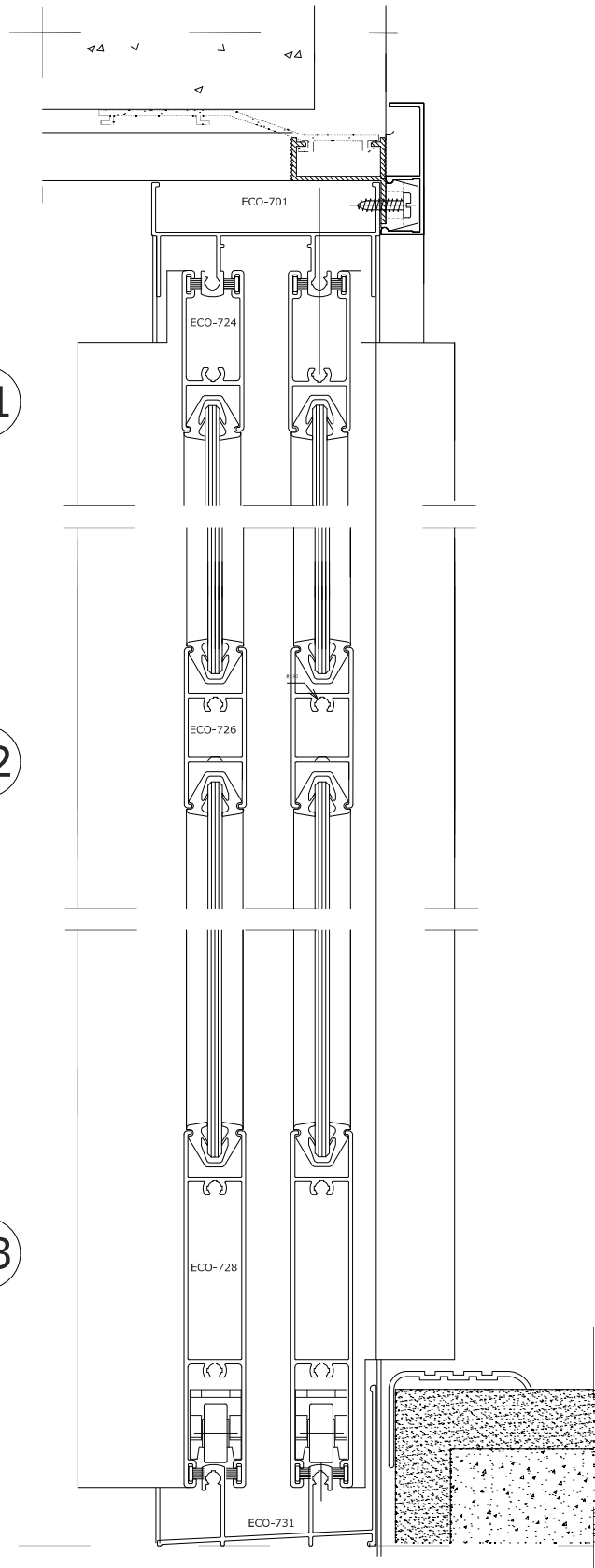
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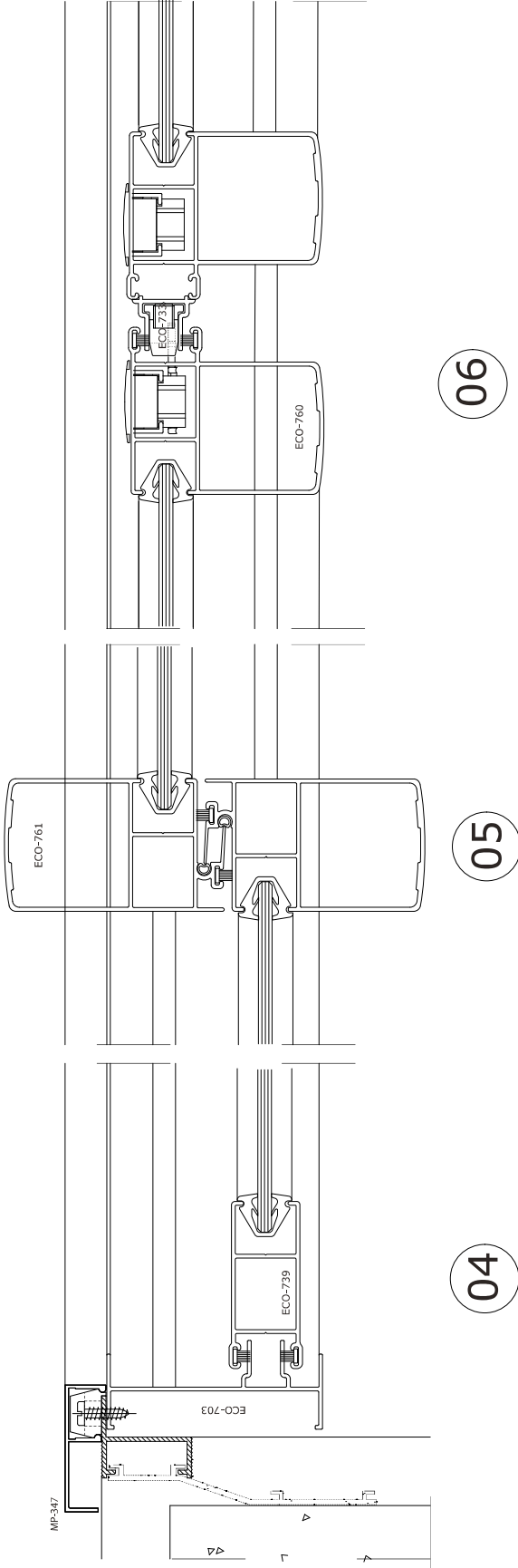


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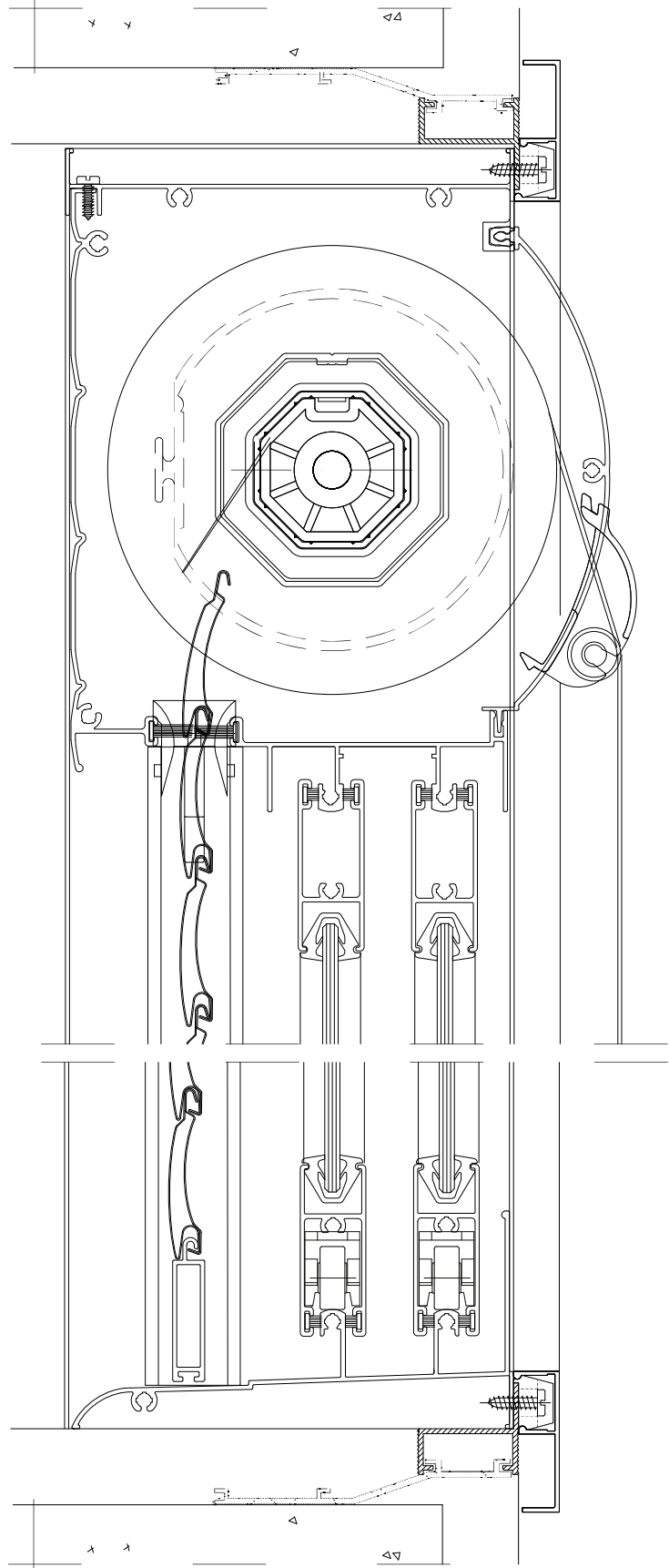
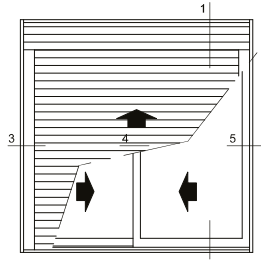
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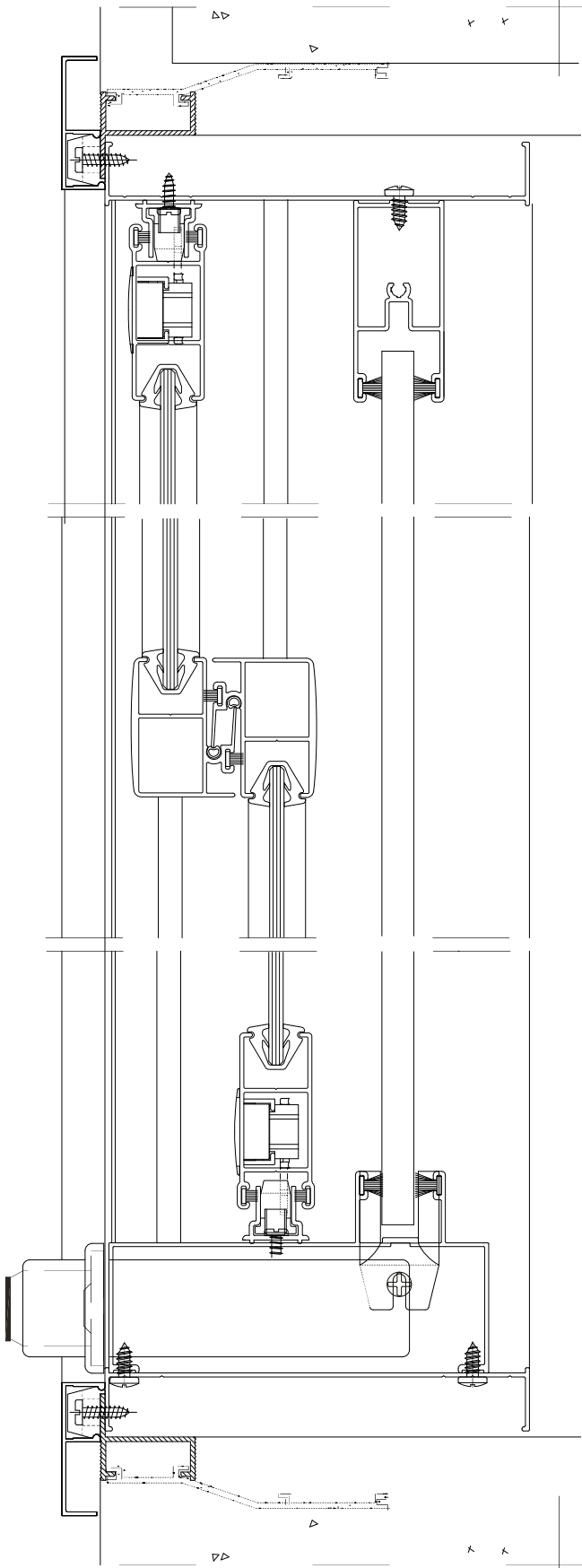




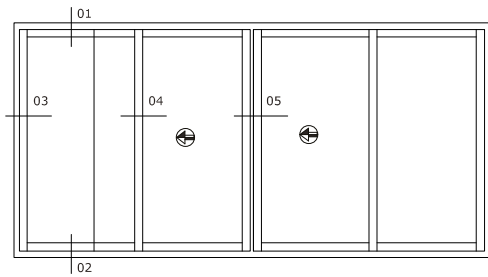
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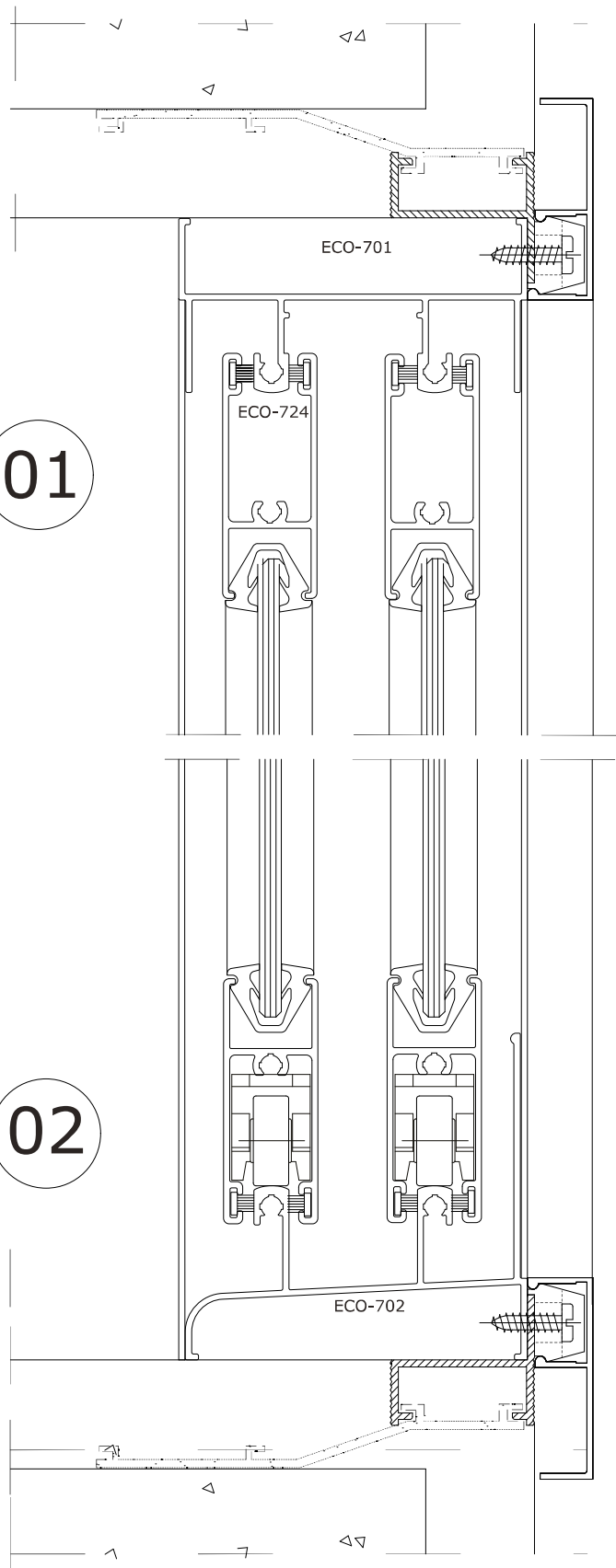


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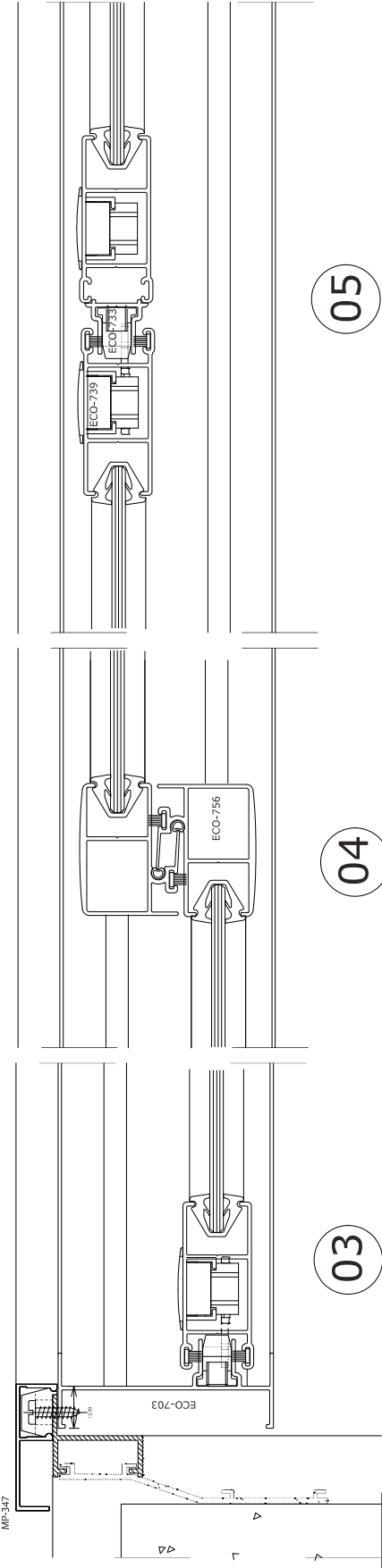


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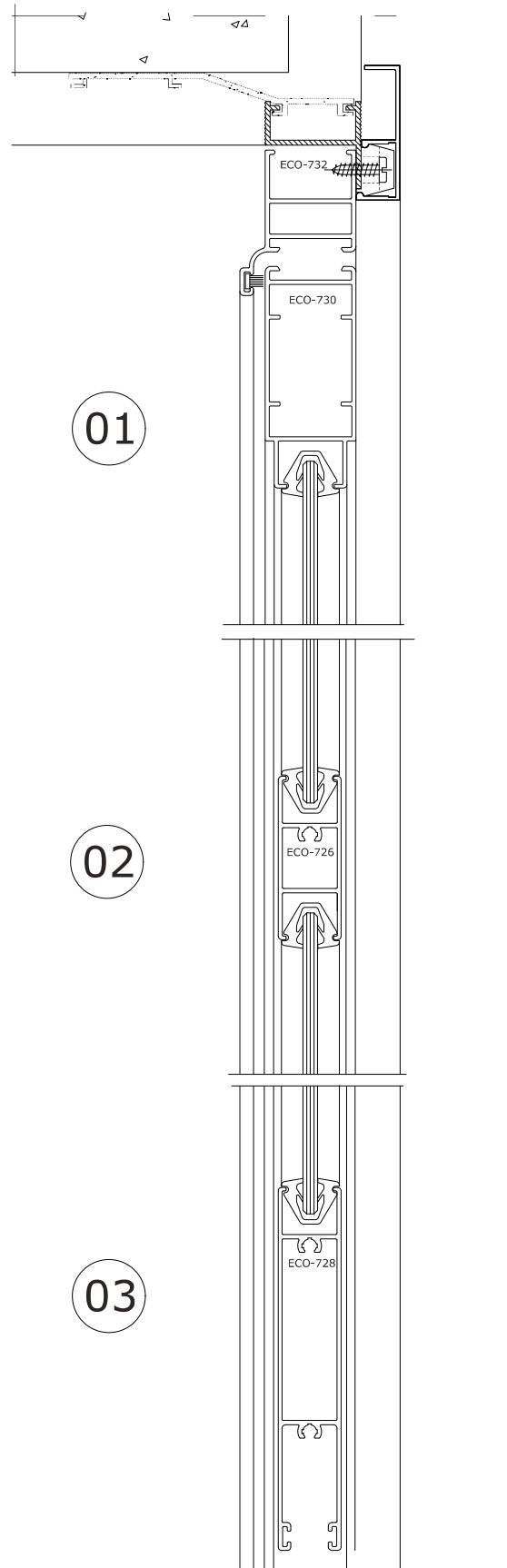
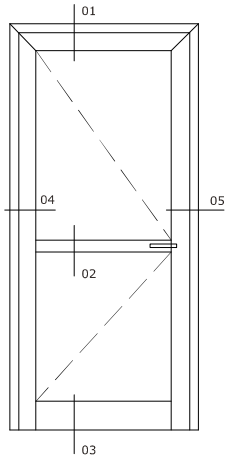
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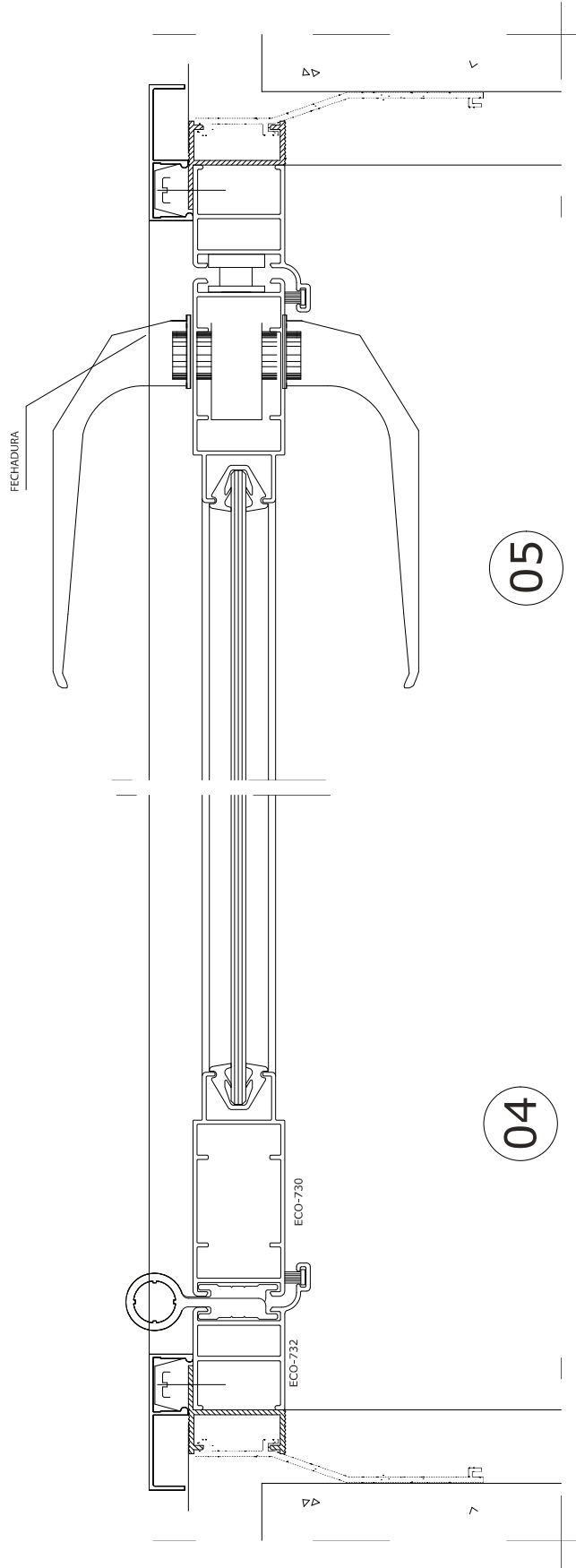
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