NC

sistema de gradeamento e corrimão
railing and handrail system
système de garde-corps et main courante

CATÁLOGO TÉCNICO

TECHNICAL CATALOG | CATALOGUE TECHNIQUE

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sistema de gradeamento e corrimão
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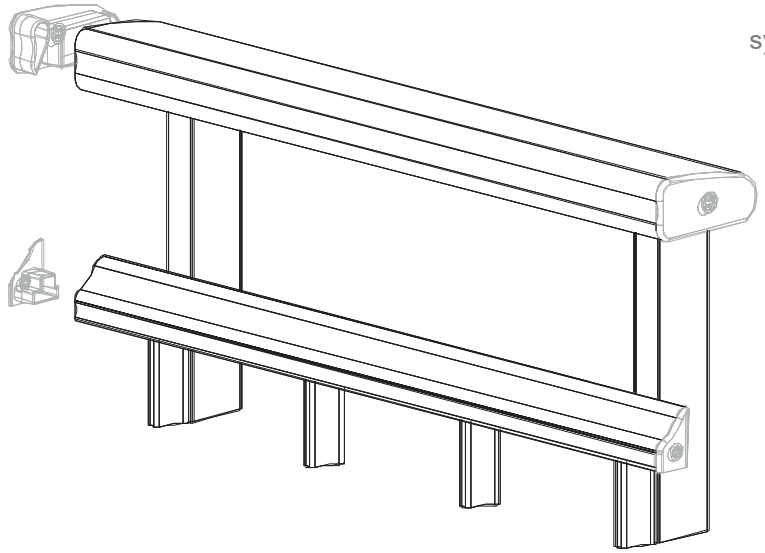


Sistema de alumínio que permite a execução de gradeamentos e corrimões com capacidade de responder às necessidades de qualquer tipo de habitação. A variedade de acabamentos em conjugação com a diversidade de tipologias faz com que se possa adaptar a qualquer tipo de decoração. Com a utilização de vidro consegue-se atingir o requinte exigido pela arquitectura moderna.

Aluminium system that allows the execution of railings and handrails capable of meeting the needs of any type of home. The variety of finishes in conjunction with the diversity of types means that it can be adapted to any type of decoration. With the use of glass it is possible to achieve the refinement required by modern architecture.

Système en aluminium qui permet la réalisation de garde-corps et de mains courantes capables de répondre aux besoins de tout type d'habitation. La variété des finitions, associée à la diversité des types, lui permet de s'adapter à tout type de décoration. Grâce à l'utilisation du verre, il est possible d'atteindre le raffinement requis par l'architecture moderne.

APRESENTAÇÃO PRESENTATION | PRÉSENTATION	Decorativo | Redondo Decorative | Round Décoratif | Ronde
DIMENSÕES DIMENSIONS | DIMENSIONS	Corrimão decorativo de 77x36 mm | Corrimão redondo de Ø 66mm Decorative handrail 77x36 mm | Round handrail Ø 66mm Main courante décoratif 77x36 mm | Main courante ronde Ø 66mm
PRUMO COLUMN | POTEAU	40x20 mm, com grande resistência mecânica | Distância máxima entre prumos = 1,00 m From 12 to 20mm | Maximum distance between columns = 1,00 m De 12 à 20mm | Distance maximale entre poteaux = 1,00 m
GRADE RAILING | BARREAU	Secção triangular arredondada de 20x20 mm | Possibilidade de grade entre prumos ou no plano frontal dos mesmos Rounded triangular section 20x20 mm | Possibility of grating between props or in their frontal.plane Section triangulaire arrondie 20x20 mm | Possibilité de grillage entre les étais ou dans leur plan frontal Painel de vidro Glass panel Panneau de verre
PATER COLUMN SUPPORT | SABOT SUR DALLE SUR DALLE	Em alumínio, com acabamento à cor dos perfis (Lacados | Anodizados) In aluminum, finished in the colour of the profiles (Powder coated | Anodised) En aluminium, fini dans la couleur des profilés (Laqué | Anodisé)
ACESSÓRIOS ACESSORIES | ACESSOIRES	Fixação oculta para todas as situações (ângulos em planta, escadas, fixações frontais, remates, etc.) Concealed fixing for all situations (angles in plan, stairs, front fixings, trimmings, etc.) Fixation cachée pour toutes les situations (angles en plan, escaliers, fixations en façade, garnitures, etc.)
ACABAMENTOS FINISHES | FINITIONS	Lacados | Anodizados Powder coating | Anodizing Laqué | Anodisé

Todas as medidas são consideradas em mm, salvo as devidamente identificadas
All measurements are considered in mm, except those duly identified | Toutes les mesures sont considérées en mm saufs celles qui sont dûment identifiées.

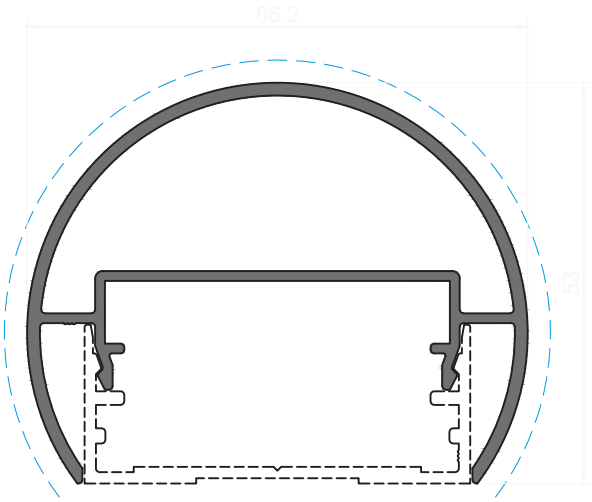
DESEMPENHO DO SISTEMA

system performance | performance du système

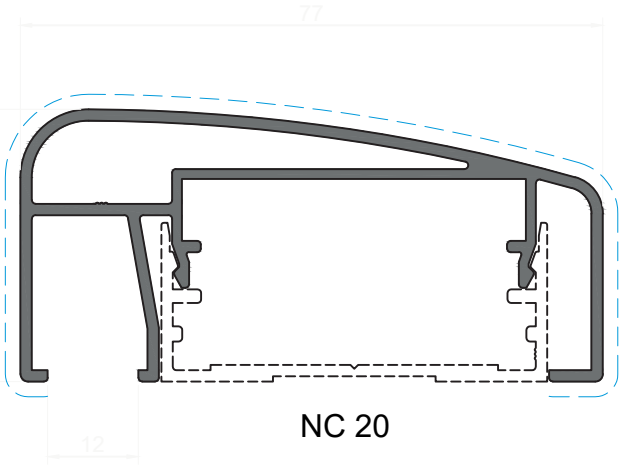
Resultados dos Ensaios Test Results | Résultats des Essais	Ensaio nº OEF021A/22 de 27-06-2022 Test reference | Essais nº NP 4491:2009 (PT)
Descrição AIR Permeability | Permeabilité à l'AIR	**Guarda com prumos de alumínio e preenchimento em vidro** Railing with aluminium column and glass infill Garde-corps avec poteau en aluminium et remplissage en verre
Dimensões Dimensions | Dimensions	**Guarda com 2.320m x 1.105m | Vidro : 44.2 Laminado** Railing with 2.320m x 1.105m | Glass: 44.2 Laminated Garde-corps avec 2.320m x 1.105m | Verre: 44.2 Feuilleté
Fixação vertical Vertical fiing | Fixation verticale	**Pater Fixação Vertical RA 908 com um afastamento de 1.145m** Vertical fixing column support 908 with a gap of 1.145m Sabot sur dalle de fixation verticale RA 908 avec une écart de 1.145m
Força estática horizontal Horizontal static force | Force statique horizontale	**APTO - Locais de prestação de serviços** Suitable - Places of provision of services Satisfasant - Lieux de prestation de services
Força estática vertical Vertical static force | Force statique verticale	**APTO - Locais de prestação de serviços** Suitable - Places of provision of services Satisfasant - Lieux de prestation de services
Choque com corpo duro Hard body shock | Choc du corps dur	**APTO - Locais de prestação de serviços** Suitable - Places of provision of services Satisfasant - Lieux de prestation de services
Choque com corpo mole Soft body shock | Choc corporels mous	**APTO - Locais de prestação de serviços** Suitable - Places of provision of services Satisfasant - Lieux de prestation de services

II

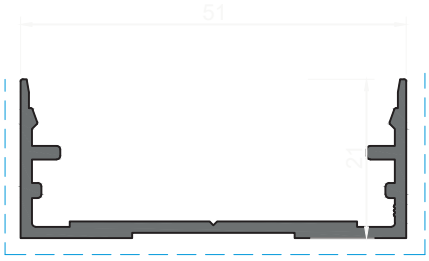
LISTAGEM DE PERFIS
PROFILES LIST | LISTE DES PROFILÉS



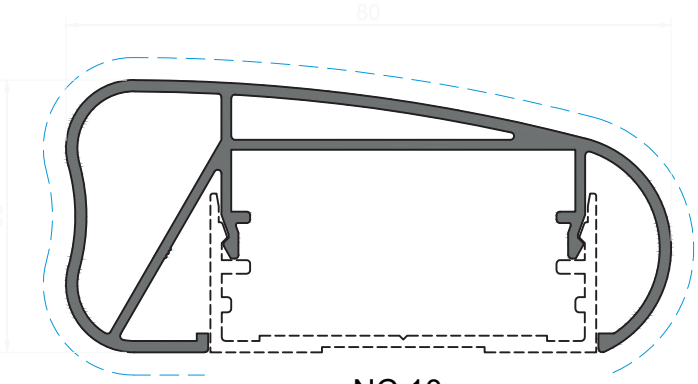
NC 01



NC 20

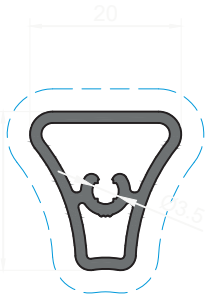


NC 03

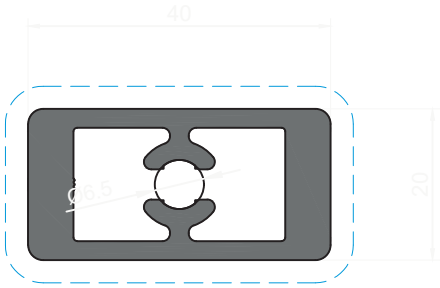


NC 10

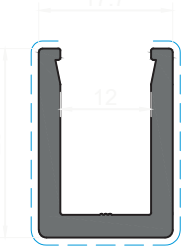
NC 04



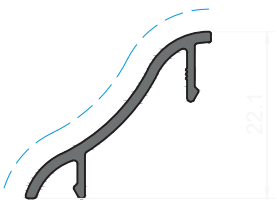
NC 00



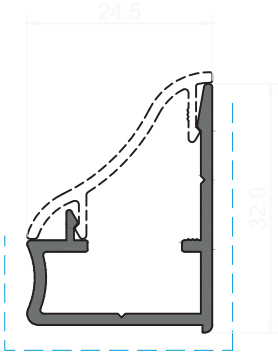
NC 05



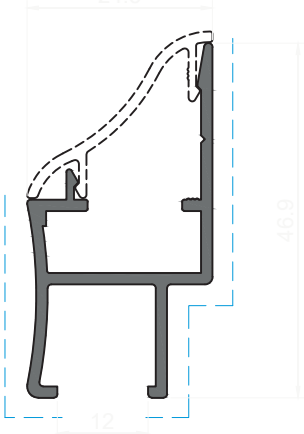
NC 16



NC 14



NC 13



NC 15

III

LISTAGEM DE ACESSÓRIOS
ACCESSORIES LIST | LIST D'ACCESSOIRES

Para o perfil NC 01
Material: Nylon | Acabamento: Preto

210266 TOPO NC 01 RA 723

Para o perfil NC 10
Material: Nylon | Acabamento: Preto

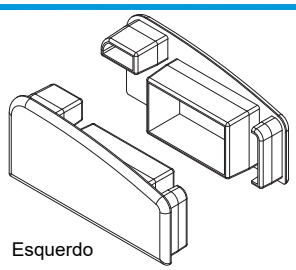
210025 TOPO NC 10 DIREITO

Para o perfil NC 10
Material: Nylon | Acabamento: Preto

210026 TOPO NC 10 ESQUERDO

Aplicar no perfil NC 01, com inclinação 30°
Material: Alumínio
Acabamentos: Bruto, Lacados e Anodizados

212534 CONJ. TOPO NC 01 INCLINADO RA 724



Para o perfil NC 20
Material: Nylon | Acabamento: Preto

212369 CONJUNTO TOPOS NC 20

Para o perfil NC 03
Material: Nylon | Acabamento: Preto

210031 TOPO NC 03 RA 452

Para o perfil NC 13 e NC 15
Material: Nylon | Acabamento: Preto

210281 TOPO NC 15 DIREITO

Para o perfil NC 13 e NC 15
Material: Nylon | Acabamento: Preto

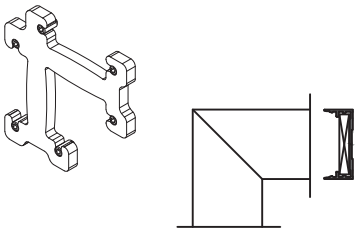
210282 TOPO NC 15 ESQUERDO

Aplicar no perfil NC 03, com inclinação 30°
Material: Alumínio
Acabamentos: Bruto, Lacados e Anodizados

212535 CONJ. TOPO NC 03 INCLINADO RA 656

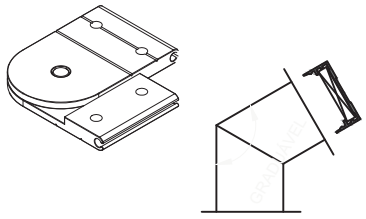
Para o perfil NC 05
Material: Nylon | Acabamento: Preto

210024 TOPO NC 05 RA 592



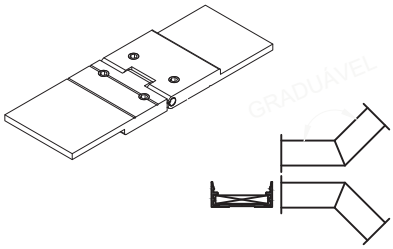
Aplicar no perfil NC 03 a 90º na horizontal
Material: Alumínio | Acabamento: Bruto

204740 ESQUADRO RA 385



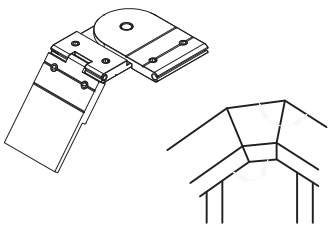
Aplicar no perfil NC 03 com ângulo horizontal variável
Material: Alumínio | Acabamento: Bruto

204742 ESQ. GRADUÁVEL P/ ÂNGULO RA 391



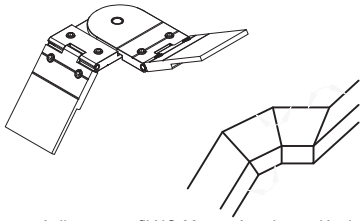
Aplicar no perfil NC 03 com ângulo vertical variável
Material: Alumínio | Acabamento: Bruto

204307 ESQUADRO GRADUÁVEL RA 390



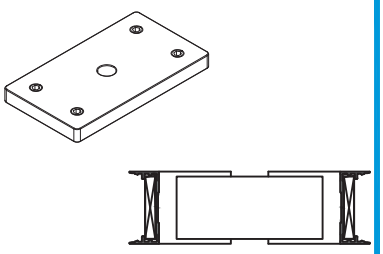
Aplicar no perfil NC 03 com ângulos variáveis
Material: Alumínio | Acabamento: Bruto

204743 ESQ. GRADUÁVEL P/ ÂNGULO RA 575



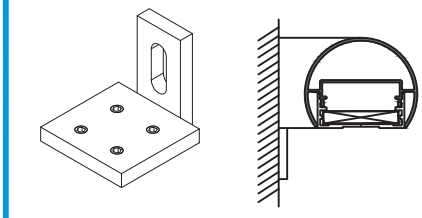
Aplicar no perfil NC 03 com ângulos variáveis
Material: Alumínio | Acabamento: Bruto

204744 ESQ. GRADUÁVEL P/ ÂNGULO RA 576



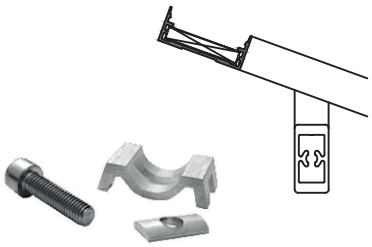
Para unir perfis NC 03

232003 UNIÃO RA 393



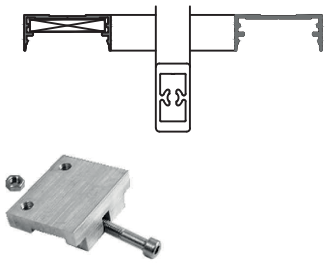
Para ligação à parede
Material: Alumínio
Acabamentos: Bruto, Lacados e Anodizados

232001 UNIÃO P/ FIXAÇÃO RA 389



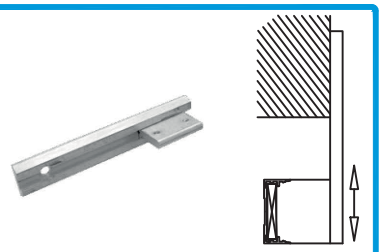
Para ligação de montantes com inclinação variável

212915 CONJUNTO UNIÃO P/ MONTANTE RA 857



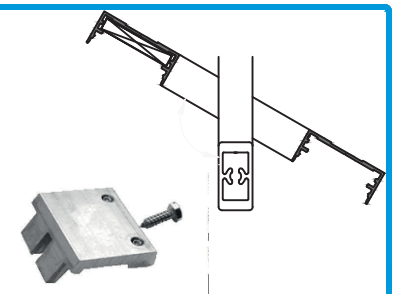
Para travessas

232008 UNIÃO DE TRAVESSAS RA 489



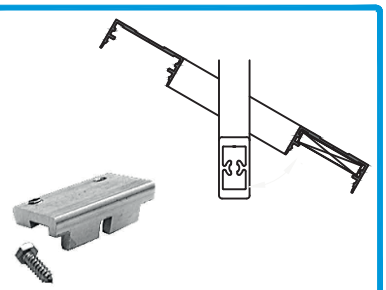
Para ligação à parede
Material: Alumínio
Acabamentos: Bruto, Lacados e Anodizados

212536 CONJ. UNIÃO P/FIX. RA 469



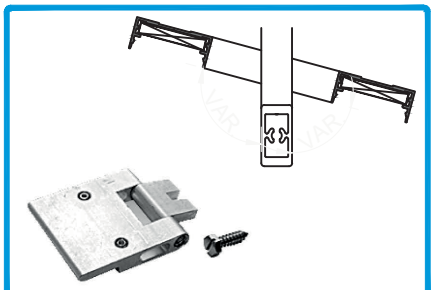
Para travessas com ângulo de 30º

232005 UNIÃO DE TRAVESSAS INCLINADA RA 490



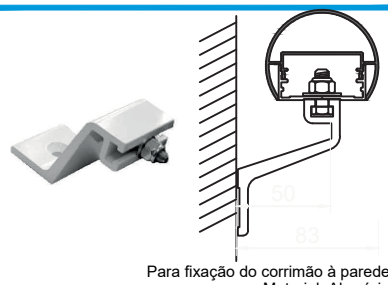
Para travessas com ângulo de 30º

232006 UNIÃO DE TRAVESSAS INCLINADAS RA 624



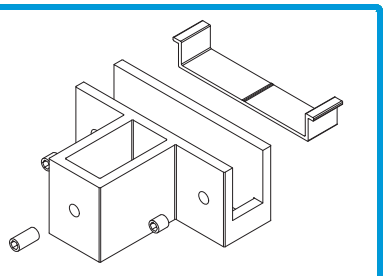
Para travessas com ângulo variável

232004 UNIÃO DE TRAVESSA GRADUÁVEL RA 774



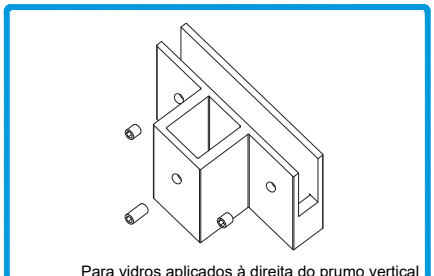
Para fixação do corrimão à parede
Material: Alumínio
Acabamentos: Bruto, Lacados e Anodizados

232008 SUPORTE DE FIXAÇÃO RA 718



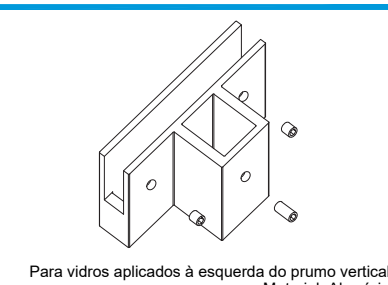
Material: Alumínio
Acabamentos: Bruto, Lacados e Anodizados

230344 SUPORTE RETO 470



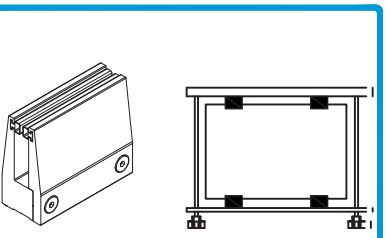
Para vidros aplicados à direita do prumo vertical
Material: Alumínio
Acabamentos: Bruto, Lacados e Anodizados

230345 SUPORTE DIR. C/ INCLINAÇÃO 30º 485 DX



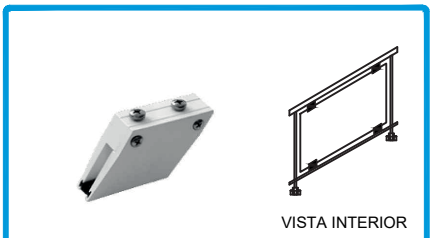
Para vidros aplicados à esquerda do prumo vertical
Material: Alumínio
Acabamentos: Bruto, Lacados e Anodizados

230346 SUPORTE ESQ. C/ INCLINAÇÃO 30º 485 SX



Suporte para painéis | Esp. vidro = 6 a 11 mm
Material: Alumínio
Acabamentos: Bruto, Lacados e Anodizados

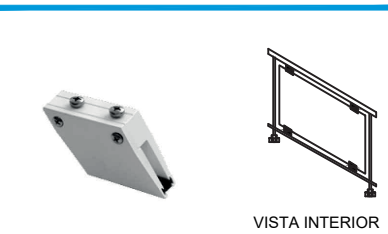
230011 SUPORTE P/ PAINEL RA 905



VISTA INTERIOR

Sup. para painéis com inclinação 30º | Esp. vidro = 8 mm
Material: Alumínio
Acabamentos: Bruto, Lacados e Anodizados

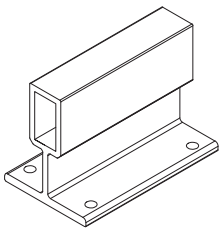
230007 SUPORTE INCL. ESQ. P/ PAINEL RA 480



VISTA INTERIOR

Sup. para painéis com inclinação 30º | Esp. vidro = 8 mm
Material: Alumínio
Acabamentos: Bruto, Lacados e Anodizados

230006 SUPORTE INCL. DIR. P/ PAINEL RA 480

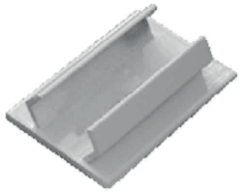


Material: Alumínio
Acabamentos: Bruto, Lacados e Anodizados

206062 PATER FIXAÇÃO LATERAL RA 761

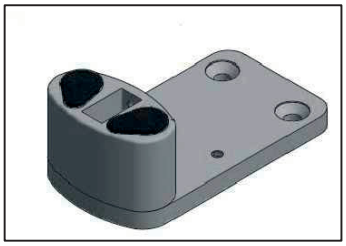
Material: Alumínio
Acabamentos: Bruto, Lacados e Anodizados

206063 PATER FIXAÇÃO LATERAL RA 763



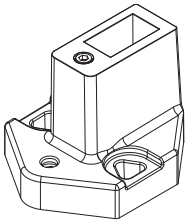
Topo para os pateres RA 761 e RA 763
Material: Alumínio | Acabamentos: Bruto e Lacados

210032 TOPO P/ PATER RA 472



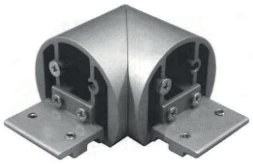
Material: Alumínio
Acabamentos: Bruto, Anodizados e Lacados

206000 PATER FIX. VERT. C/AVANÇO RA 939



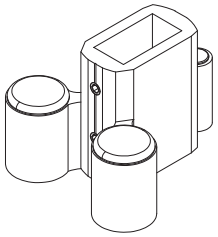
NÃO RECOMENDADO EM ZONAS AGRESSIVAS
Material: Alumínio Fundido
Acabamentos: Bruto e Lacados

206004 PATER FIXAÇÃO VERTICAL RA 461



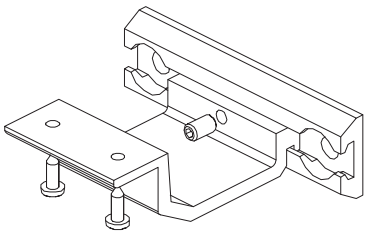
NÃO RECOMENDADO EM ZONAS AGRESSIVAS
Material: Alumínio Fundido
Acabamentos: Bruto e Lacados

213010 CANTO ALUMÍNIO PARA NC 01 RA 901



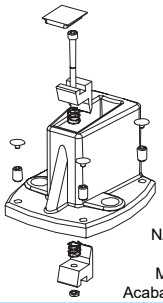
Material: Alumínio
Acabamentos: Bruto, Lacados e Anodizados

206515 PATER FIXAÇÃO VERTICAL RA 908



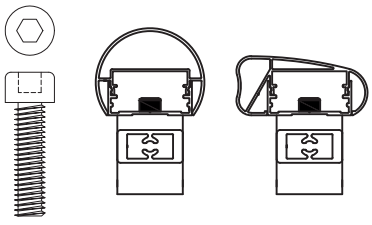
Material: Alumínio
Acabamentos: Bruto, Lacados e Anodizados

230500 SUPORTE DE FIXAÇÃO RA 634



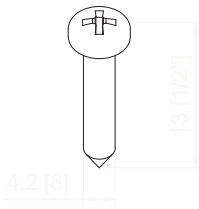
NÃO RECOMENDADO EM ZONAS AGRESSIVAS
Material: Alumínio Fundido
Acabamentos: Bruto e Lacados

214102 BASE PATER 903306



Para fixação do prumo NC 05

290456 PARAFUSO SEXT. INTERIOR M8x30 INOX



Para fixar os rolamentos e o batente de alumínio
Material: Inox | Acabamento: Inox

290111 PARAFUSO CQ 4,2x13 INOX A2

Junta de vedação elástica, resistente aos UV
Impede a corrosão de penetrar pelas zonas cortadas

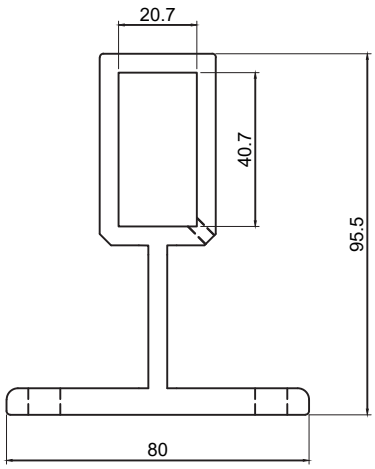
208019 SELA JUNTAS 150gr. (Cinza)

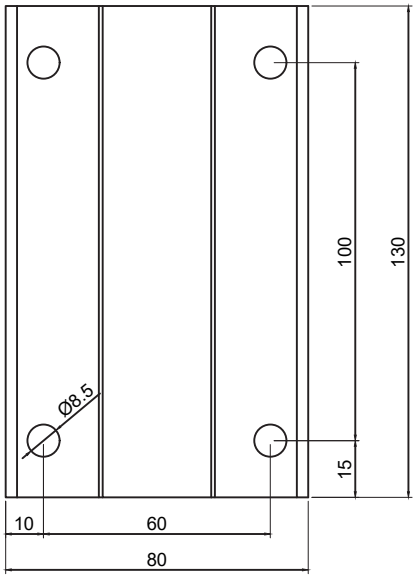
Limpeza de alumínio lacado ou anodizado
Para preparação das superfícies a serem unidas e limpeza final

208704 PRODUTO LIMPEZA DE ALUMÍNIO (1L) Transparente

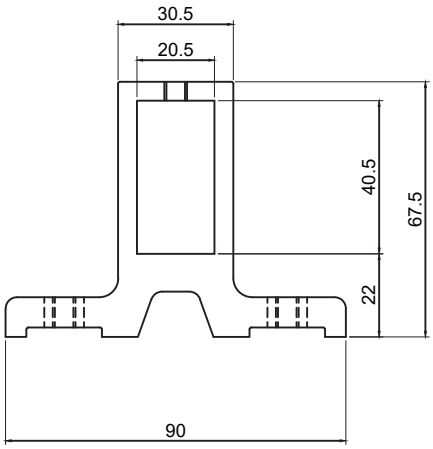
PATER DE FIXAÇÃO - DIMENSÕES
FIXING COLUMN SUPPORT - DIMENSIONS
SABOT SUR DALLE DE FIXATION - DIMENSIONS

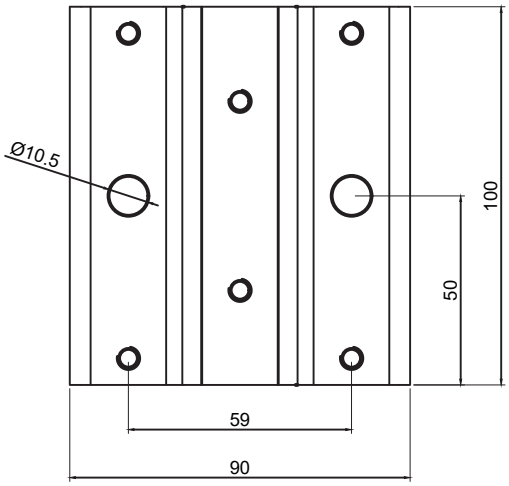
PATER FIXAÇÃO LATERAL RA 761
LATERAL FIXING COLUMN SUPPORT RA 761
SABOT SUR DALLE DE FIXATION LATÉRAL RA 761



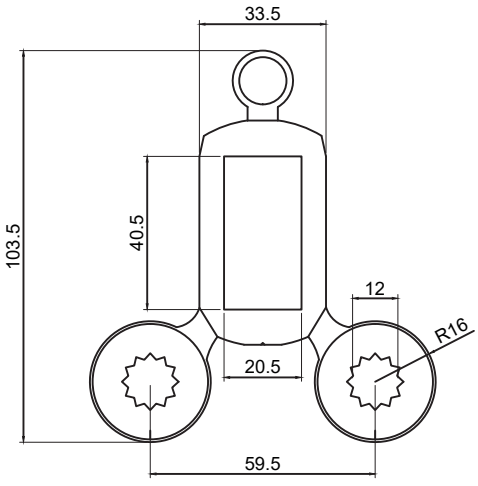


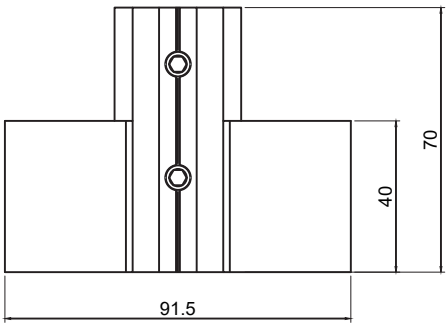
PATER FIXAÇÃO LATERAL RA 763
LATERAL FIXING COLUMN SUPPORT RA 763
SABOT SUR DALLE DE FIXATION LATÉRAL RA 763





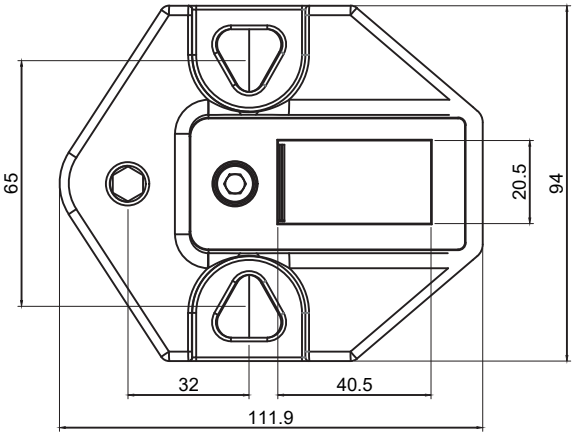
PATER FIXAÇÃO VERTICAL RA 908
VERTICAL FIXING COLUMN SUPPORT RA 908
SABOT SUR DALLE DE FIXATION VERTICALE RA 908

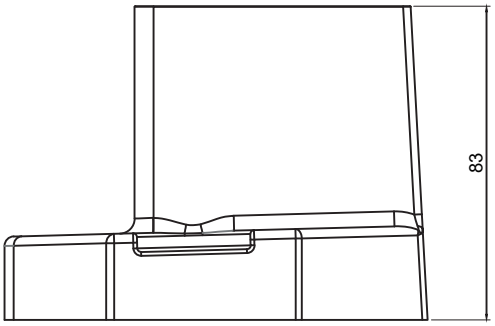




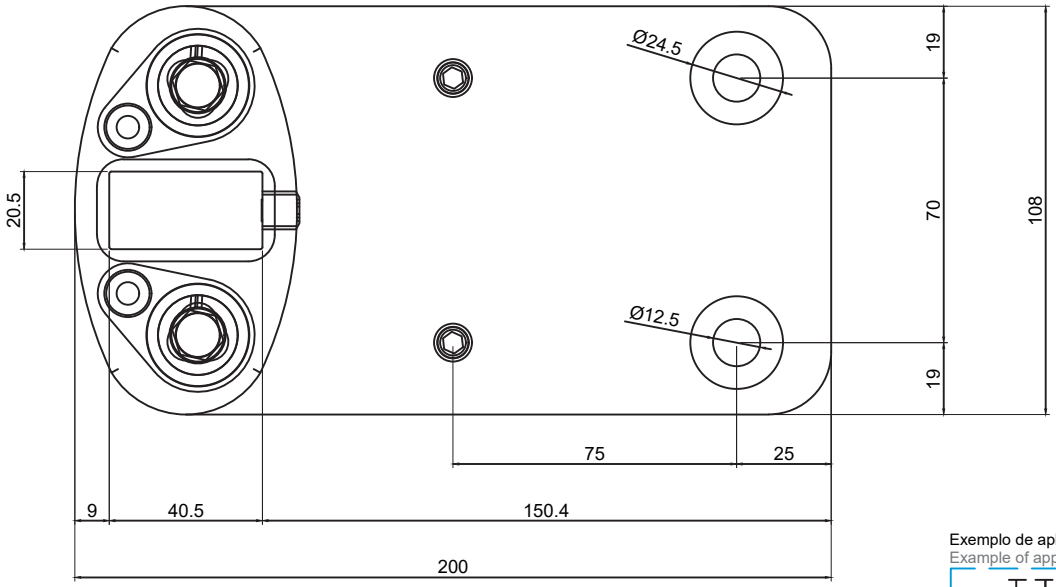
PATER DE FIXAÇÃO - DIMENSÕES
FIXING COLUMN SUPPORT - DIMENSIONS
SABOT SUR DALLE DE FIXATION - DIMENSIONS

PATER FIXAÇÃO VERTICAL RA 461
VERTICAL FIXING COLUMN SUPPORT RA 461
SABOT SUR DALLE DE FIXATION VERTICALE RA 461

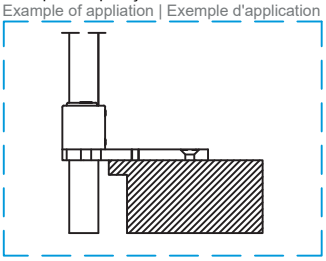


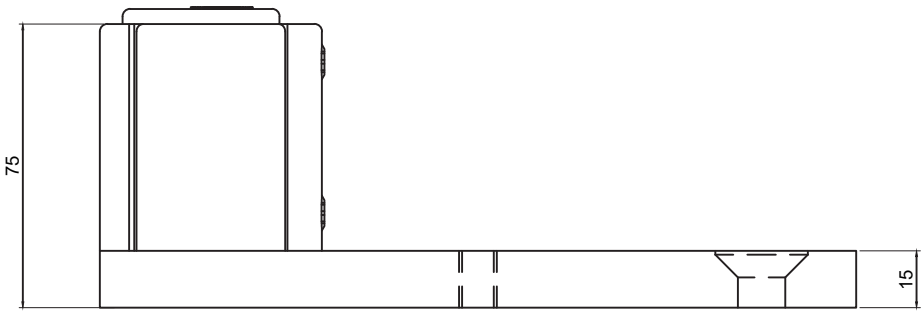


PATER FIXAÇÃO VERTICAL C/ AVANÇO RA 939
VERTICAL FIXING COLUMN SUPPORT WITH ADVANCE RA 939
SABOT SUR DALLE DE FIXATION VERTICALE AVEC ADVANCE RA 939



Exemplo de aplicação:
Example of appliation | Exemple d'application



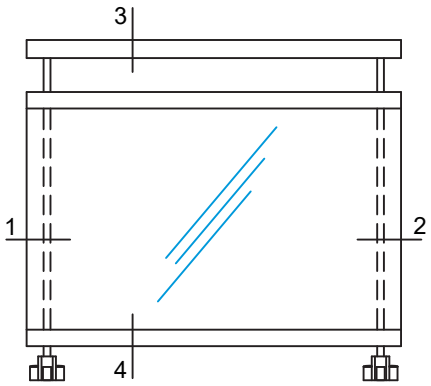


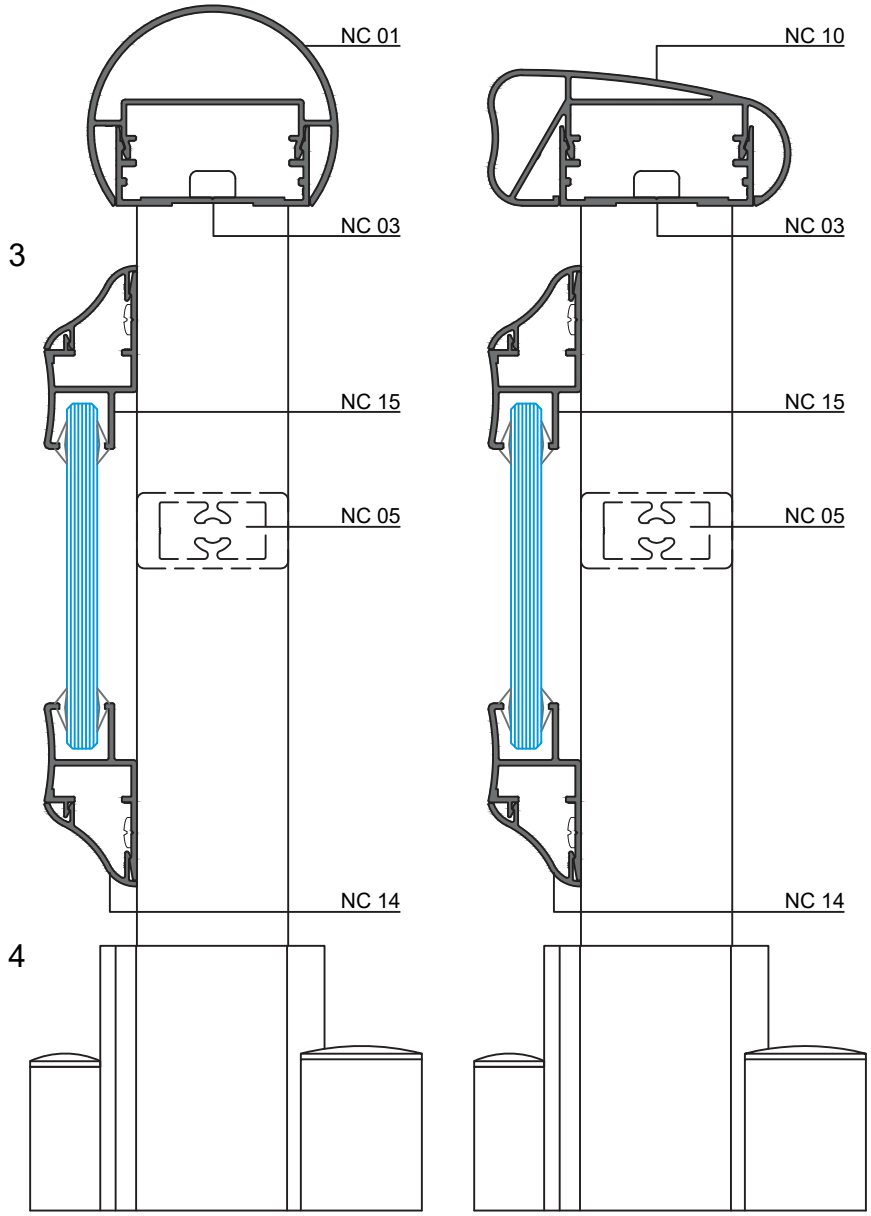
IV

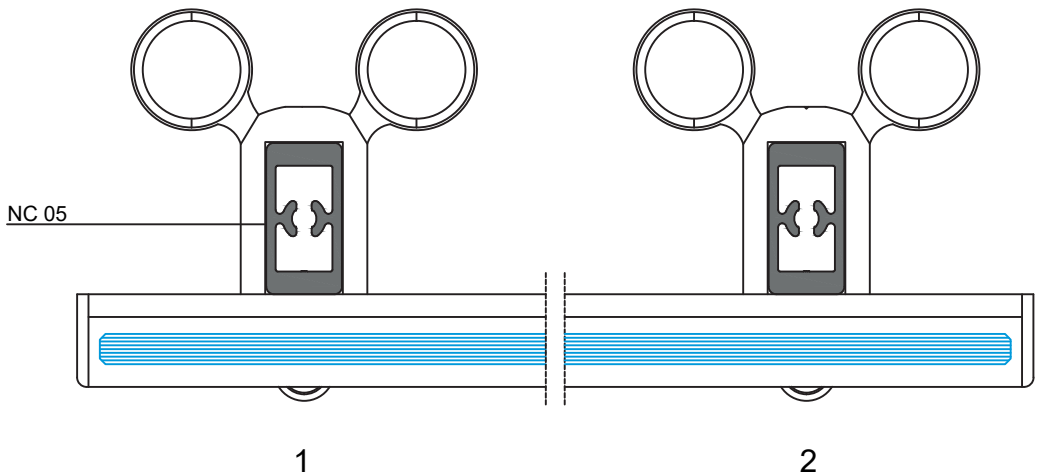
TIPOLOGIAS E MAPAS DE QUANTIDADES

TYPOLOGIES AND QUANTITY MAPS | TYPOLOGIES ET CARTES DES QUANTITÉS

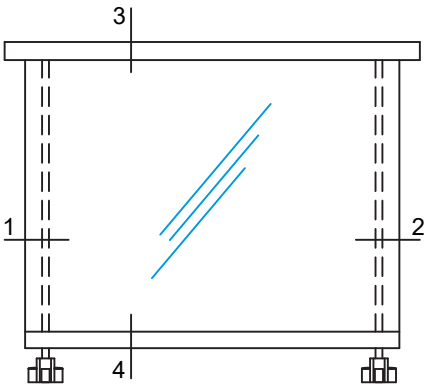
GRADEAMENTO EM PAINEL DE VIDRO - OPÇÃO 1
GLASS PANEL RAILING - OPTION 1
GUARE-CORPS À PANNEAUX DE VERRE - OPTION 1

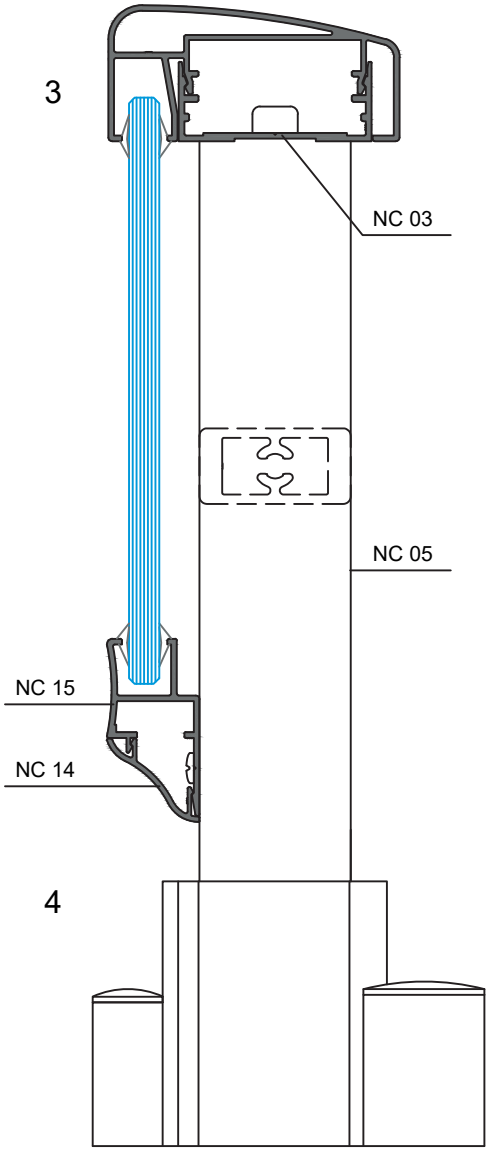


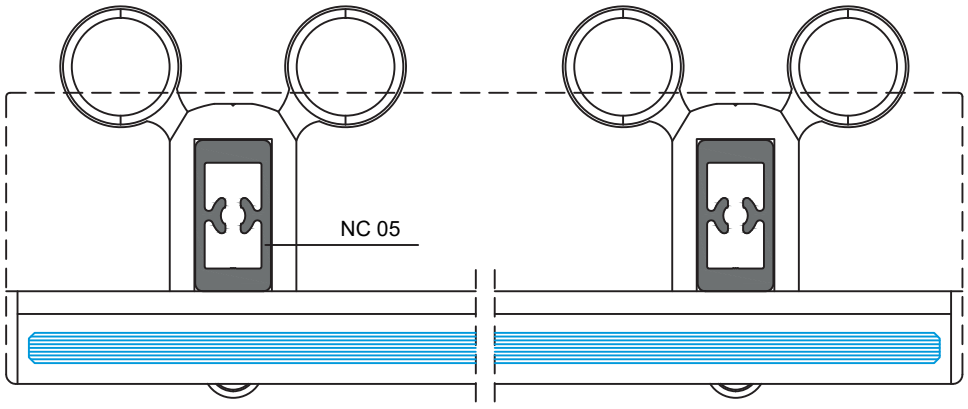




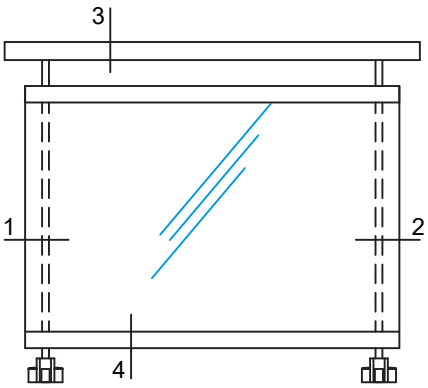
GRADEAMENTO EM PAINEL DE VIDRO - OPÇÃO 2
GLASS PANEL RAILING - OPTION 2
GUARE-CORPS À PANNEAUX DE VERRE - OPTION 2

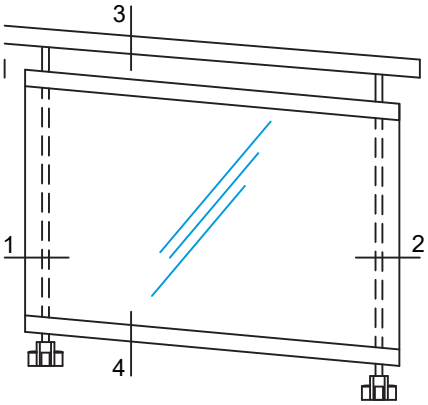


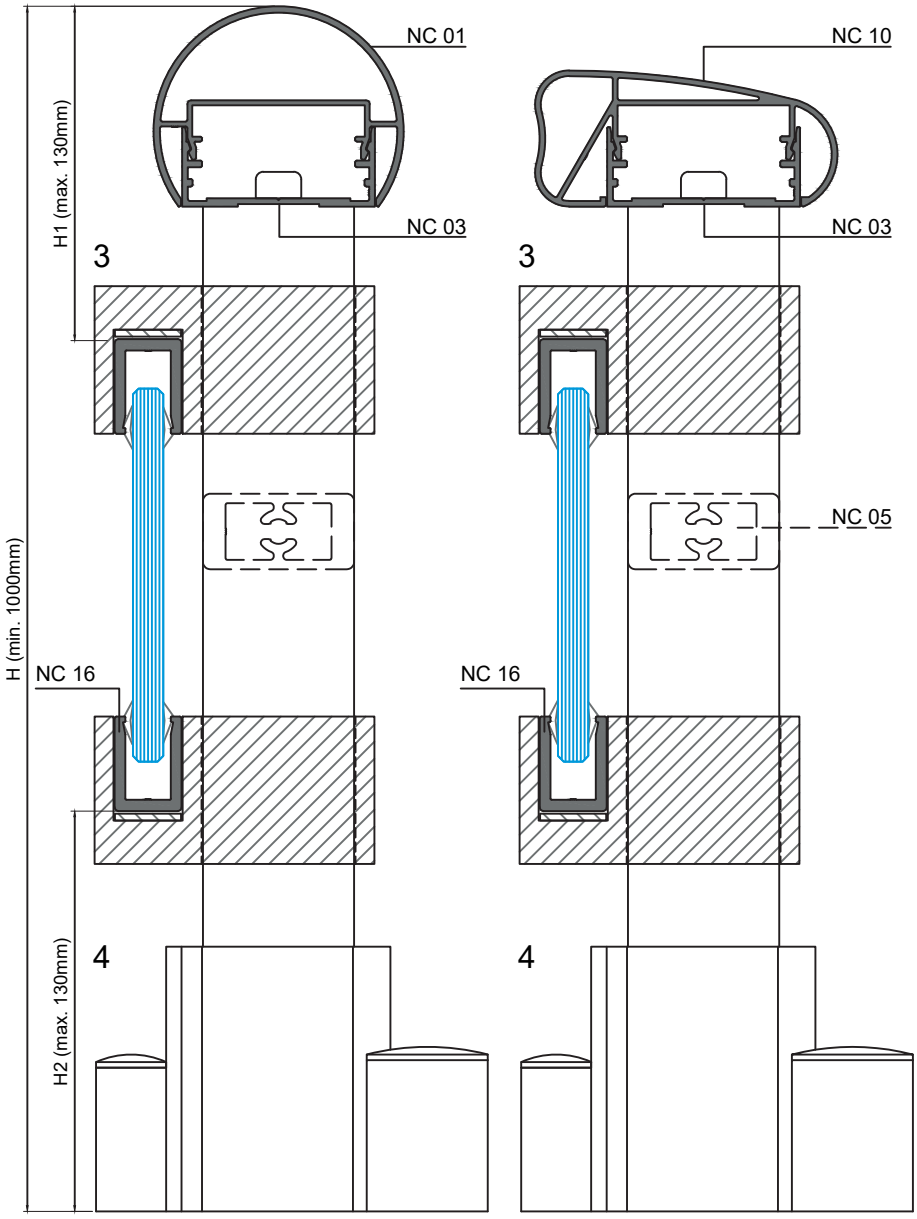


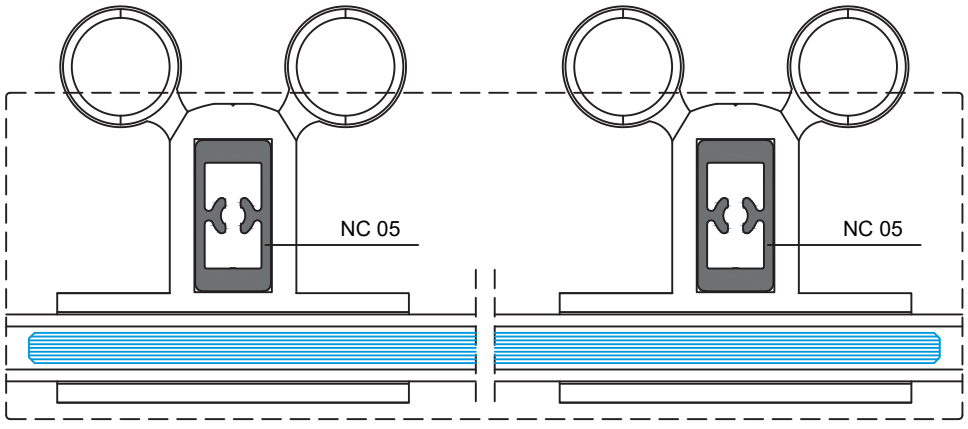


GRADEAMENTO EM PAINEL DE VIDRO - OPÇÃO 3
GLASS PANEL RAILING - OPTION 3
GUARE-CORPS À PANNEAUX DE VERRE - OPTION 3



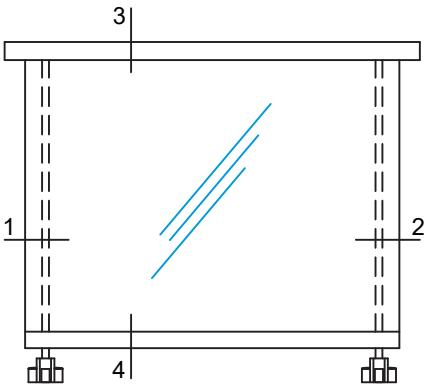


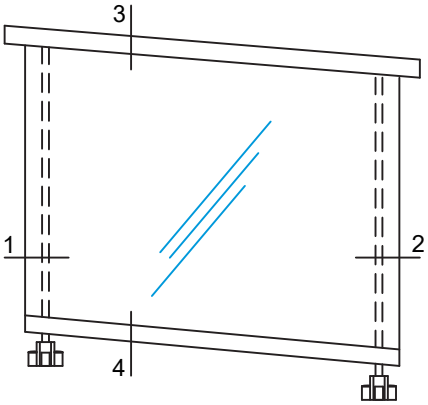


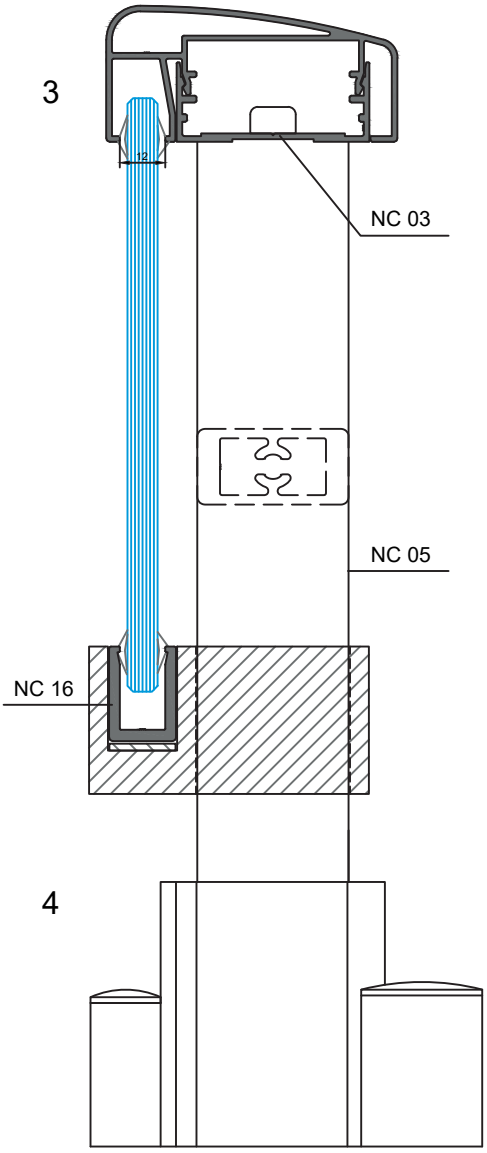


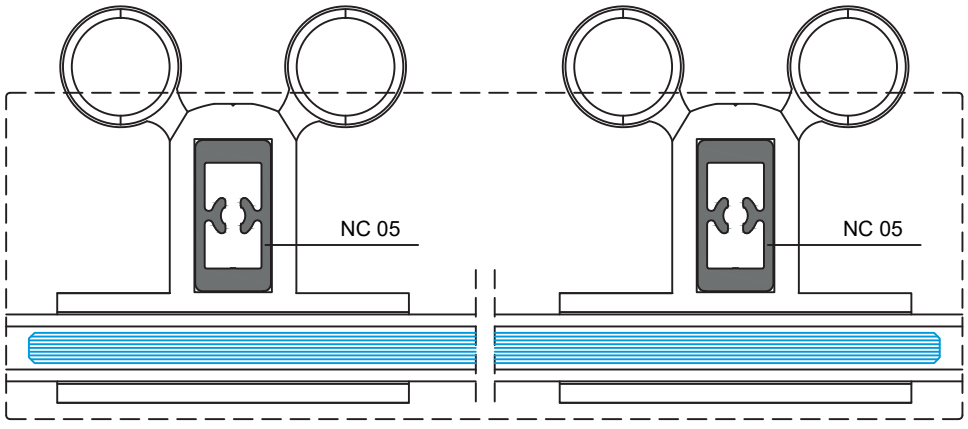
1 2

GRADEAMENTO EM PAINEL DE VIDRO - OPÇÃO 4
GLASS PANEL RAILING - OPTION 4
GUARE-CORPS À PANNEAUX DE VERRE - OPTION 4

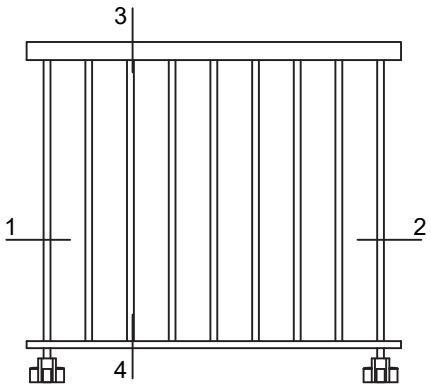


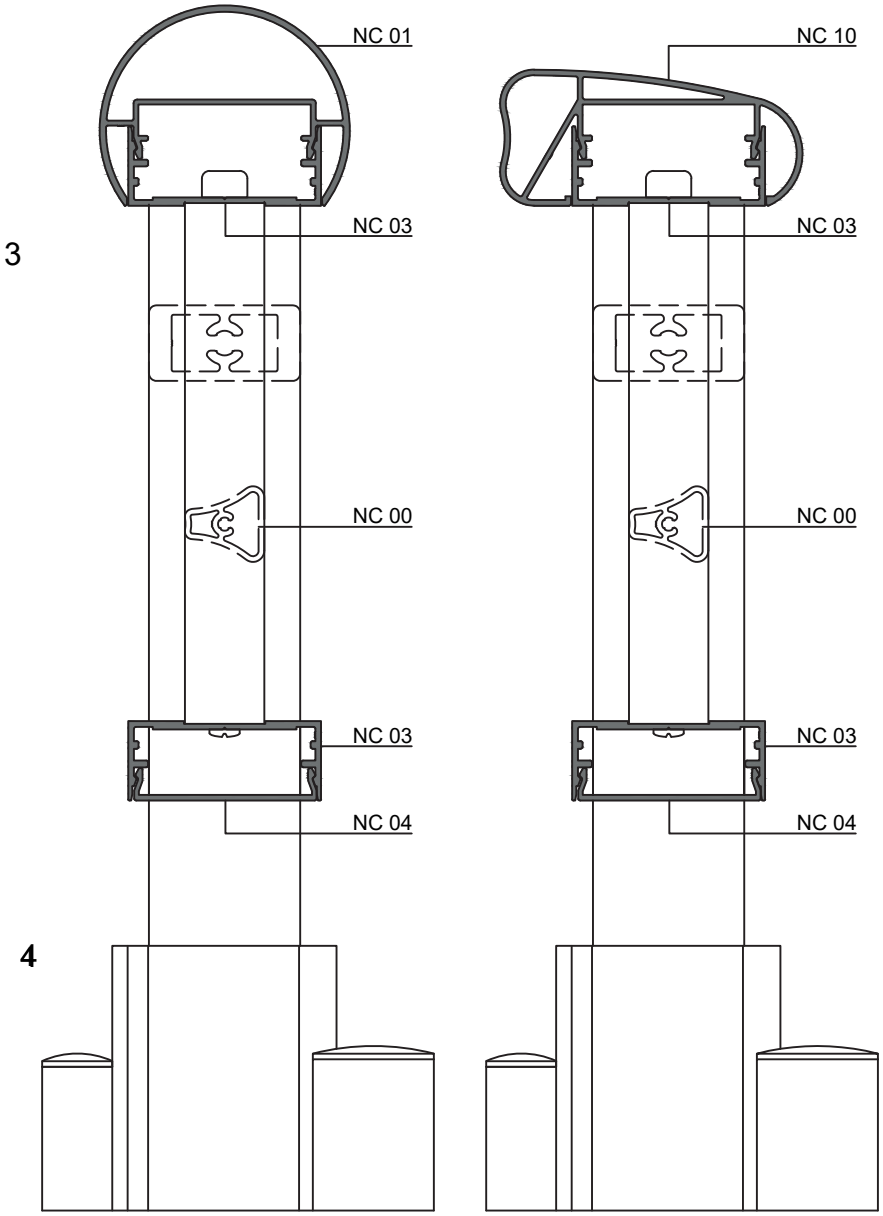


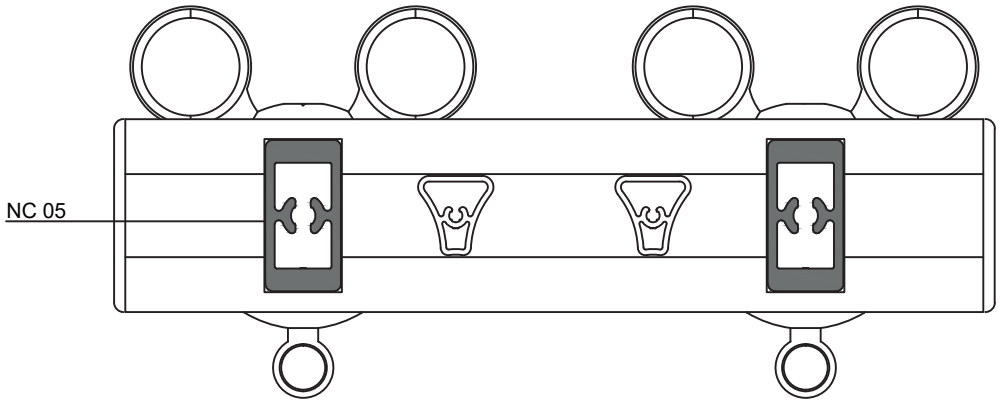




GRADEAMENTO COLOCADO ENTRE OS PRUMOS
RAILING PLACED BETWEEN THE COLUMNS
GUARDE-CORPS PLACÉE ENTRE LES POTEAUX

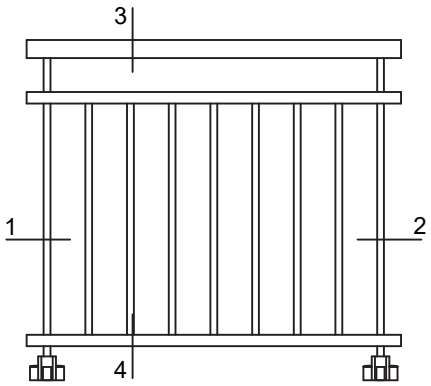


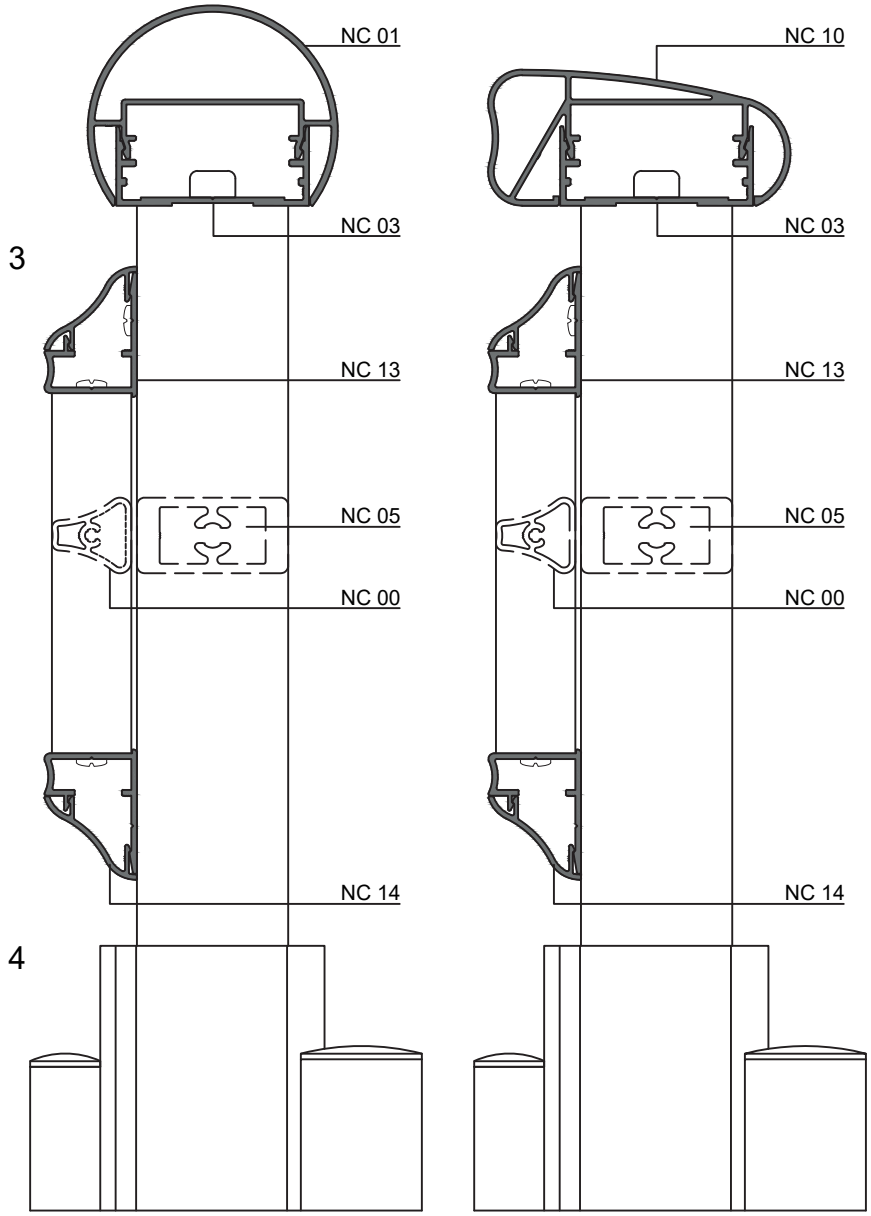


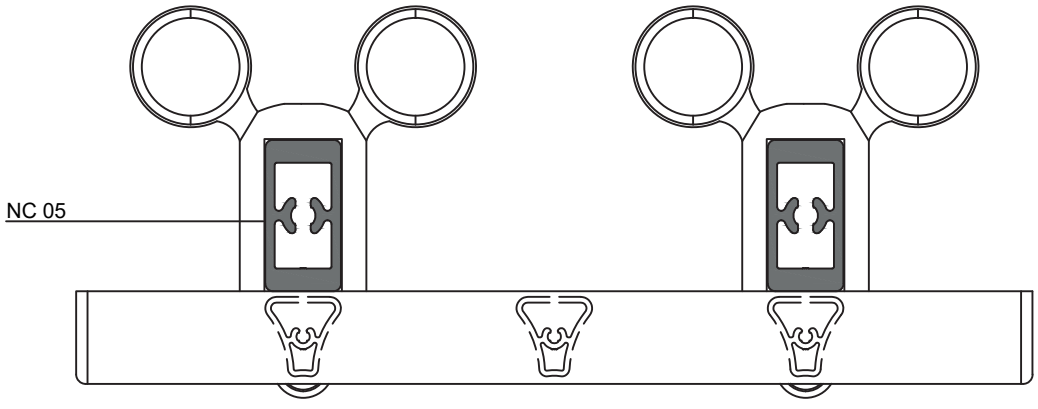


1 2

GRADEAMENTO COLOCADO NO PLANO FRONTAL AOS PRUMOS
RAILING PLACED IN THE PLANE IN FRONT OF THE COLUMNS
GUARDE-CORPS PLACÉ DANS LE PLAN DEVANT LES POTEAUX

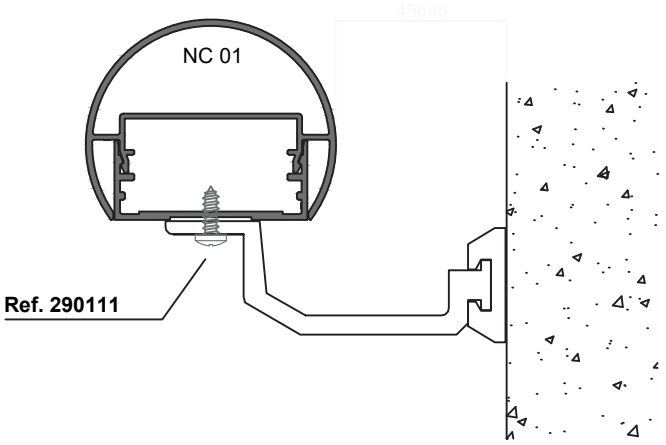


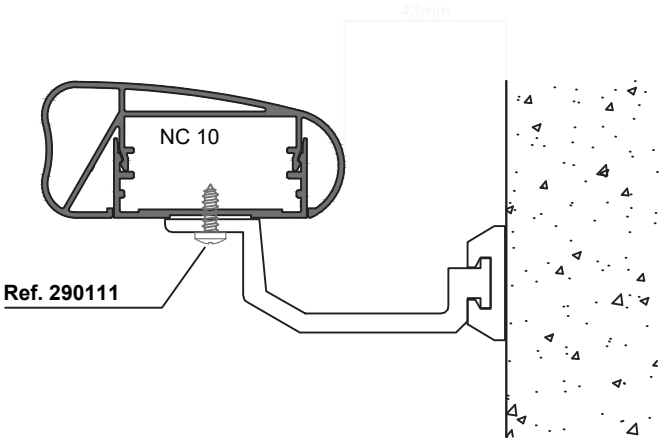




PATER DE FIXAÇÃO RA 634
FIXING COLUMN SUPPORT RA 634
SABOT SUR DALLE DE FIXATION RA 634

DISTÂNCIA MÁXIMA ENTRE APOIOS = 1200 mm
MAXIMUM DISTANCE BETWEEN SUPPORTS = 1200 mm
DISTANCE MAXIMALE ENTRE LES SUPPORTS = 1200 mm





V

ANOTAÇÕES
ANNOTATIONS | REMARQUES

ATUALIZAÇÕES REALIZADAS NESTA VERSÃO UPDATES DONE IN THIS VERSION | LES MISES À JOUR EFFECTUÉES DANS CETTE VERSION	
1	Adicionadas traduções Added translations Ajout de traductions
2	Removeu-se o acessório PATER FIX. VERT. C/AVANÇO RA 823 (descontinuado) The PATER FIX. VERT. C/AVANÇO RA 823 acCessory has been removeD (discontinued) L'acessoire PATER FIX. VERT. C/AVANÇO RA 823 a été retiré (discontinué)
3	Adicionado o acessório PATER FIX. VERT. C/AVANÇO RA 939 PATER FIX. VERT. C/ AVANÇO RA939 accessory added Acessoire PATER FIX. VERT. C/ AVANÇO RA939 ajouté
4	Atualizados os esquemas/imagens de diversos acessórios Updated the schematics/images of various accessories Mise à jour des schémas/images des divers accessoires
5	Acrescentados os pormenores com dimensões dos vários pateres de fixação Added the details with dimensions of the various fixing column supports Ajouté les détails avec les dimensions des différents sabots sur dalle
6	Modificados os pormenores construtivos com a alteração da morfologia do "Pater Fixação Vertical RA 908" Modified construction details with the alteration of the morphology of the "Pater Fixação Vertical RA 908" Modification des détails de construction avec l'altération de la morphologie du "Pater Fixação Vertical RA 908"
7	Adicionados resultados de ensaio - Desempenho do sistema Added test results - System performance. Ajout des résultats des tests - Performance du système
8	Adicionado o registo de atualizações Added the update log Ajout du journal des mises à jour
9	Acrescentado parafuso Ref. 290111, para fixação dos perfis no Pater de Fixação RA 634 Added screw Ref. 290111, for fixing the profiles on the Fixing Column Support RA 634 Vis ajoutée Réf. 290111, pour la fixation des profilés sur le Sabot sur Dalle de Fixation RA 634

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DATA | DATE | DATE: 22-12-2022