

IS LINE

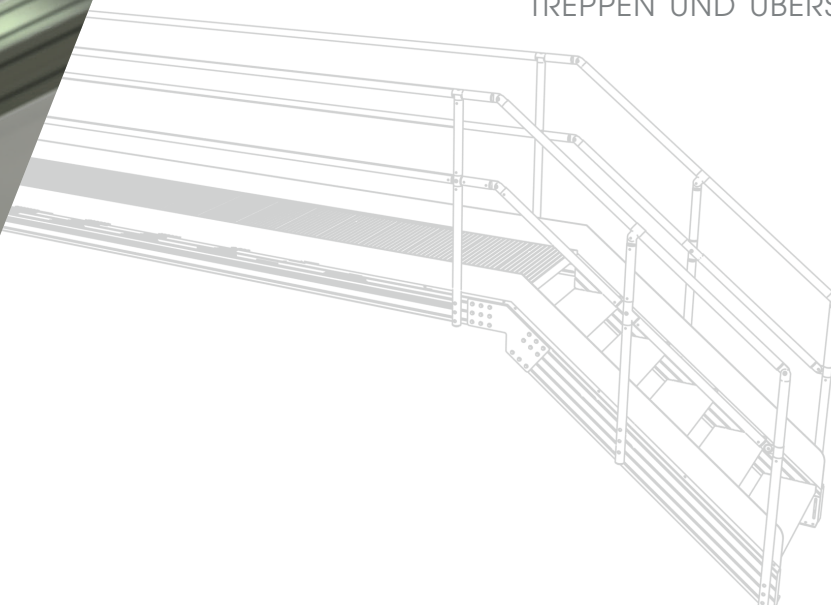
ED. 13



Alusic

SCALE E PASSERELLE

STAIRS AND WALKWAYS
ESCALERAS Y PASARELAS
ESCALIERS ET PASSERELLES
TREPPEN UND ÜBERSTIEGEN



IT

La linea Alusic di profili e accessori per scale e passerelle comprende un'ampia gamma di soluzioni per applicazioni in campo industriale.

Ovunque debbano essere creati degli scavalcamenti di linee di produzione, camminamenti a fianco di macchine o cambi di altimetria, i profili modulari per la realizzazione dei gradini dei pianerottoli e i pratici accessori per la giunzione dei corrimano offrono una risposta pratica e veloce ad ogni necessità.

Il profilo scalino è autoportante secondo normativa fino ad una larghezza di 1200 mm con un carico al centro di 150 Kg o un carico distribuito di 200 Kg/m².

EN

Alusic's range of profiles and accessories for stairs, walkways and crossover stairs incorporates a wide range of solutions for industrial applications.

Wherever there is a need to cross over production lines, create walkways alongside machinery or changes of height, our modular profiles for creating stairs and landings, and practical handrail connection accessories, offer a quick, practical answer to all requirements.

The stairway profile is self-supporting, meeting relevant standards, up to a width of 1200 mm with a centralised load of 150 kg or a distributed load of 200 kg/m².

ES

La línea Alusic de perfiles y accesorios para escaleras y pasarelas incluye una amplia gama de soluciones para aplicaciones en el ámbito industrial.

Allí donde sea necesario crear pasarelas de franqueo de líneas de producción, corredores junto a máquinas o cambios de altura, los perfiles modulares para la realización de peldaños y rellanos y los prácticos accesorios para la unión de las barandillas ofrecen una respuesta práctica y rápida a cualquier necesidad.

El perfil para escalón es autoportante según la normativa hasta una longitud de 1200 mm con una carga en el centro de 150 kg o una carga distribuida de 200 kg/m².

FR

La ligne Alusic de profilés et accessoires pour escaliers et passerelles comprend une vaste gamme de solutions pour des applications en milieu industriel.

Dans tous les cas où il est nécessaire de créer des voies de passage surmontant des lignes de production ou le long de machines, ou encore des points de franchissement de hauteurs différentes, les profilés modulaires pour la réalisation des marches de paliers et les accessoires pratiques de jonction des mains courantes offrent une réponse à la fois fonctionnelle et rapide à toute exigence.

Le profilé de marche est autoportant, conformément aux normes, jusqu'à une longueur de 1200 mm avec une charge de 150 kg en position centrale ou une charge répartie de 200 kg/m².

DE

Die Alusic-Produktlinie mit Profilen und Zubehör für Treppen und Überstiege umfasst eine große Auswahl an Lösungen für Industrieanwendungen.

Überall, wo Überstiegen von Produktionslinien, Wege neben Maschinen oder Höhenänderungen geschaffen werden müssen, stellen die modularen Profile für die Schaffung von Stufen und Treppenabsätzen und das praktische Zubehör für die Verbindung von Handläufen eine praktische und schnelle Lösung für jeden Bedarf dar.

Das Treppenprofil ist gemäß Norm bis zu einer Breite von 1200 mm mit einer Last in der Mitte von 150 kg oder einer verteilten Last von 200 kg/m² selbsttragend.

CERTIFICATO
 N° 50 100 5544 - Rev.003
 Certificat de conformité (pour les normes applicables)
 Conformity certificate (for the applicable standards)
 No. 50 100 5544 / 50 100 5544-02

Si attesta che / This is to certify that
 IL SISTEMA QUALITÀ / THE QUALITY SYSTEM OF
ALUSIC S.r.l.
 SEDE LEGALE E OPERATIVA
 REGISTERED OFFICE AND OPERATIVE SITE
 VIA BOLOGNA, 10/A
 IT - 12084 MONDOVI (CN)
 È CONFORME AI REQUISITI DELLA NORMA
 INTERNATIONAL STANDARD FOR THE REGISTRATION OF
UNI EN ISO 9001:2015
 QUESTO CERTIFICATO È VALIDO PER IL SEGUENTE CAMPO DI APPLICAZIONE
 THE CERTIFICATE IS VALID FOR THE FOLLOWING CODE:
Progettazione, fabbricazione ed assemblaggio di ricettacoli modulari in alluminio ed acciaio per la sicurezza industriale, nastri trasportatori ed altre strutture modulari in alluminio ed acciaio.
Production e commercializzazione di profili in alluminio, componenti ed accessori per IT, VE, VE.
Design manufacture and assembling aluminum and steel modular shields for safety protection, conveyor belts and other aluminum and steel modular structures. Manufacture and trade of aluminum profiles, components and accessories per IT, VE, VE.

ACCREDIA
 Per l'iscrizione e l'iscrizione
 For the registration and
 registration
 SOG N° 5018
 TUV SUD
 Valida fino al / Valid until / Valable jusqu'au / 2024-12-31
 Data emissione / Issuing Date / Date de délivrance / 2019-11-26

PRIMA CERTIFICAZIONE / FIRST CERTIFICATION 2019-11-26
 DATA DI SCADENZA DELLA CERTIFICAZIONE / EXPIRATION DATE OF THE CERTIFICATION 2024-12-31
 LA VALIDITÀ DEL PRESENTI CERTIFICATO È SOGGETTA A VERIFICHE PERIODICHE PER IL CONTROLLO DEL RISPETTO DELLE CONDIZIONI DI PRODUZIONE E DI MANIFATTURA INDICATE IN QUESTO CERTIFICATO.

100 Italia, S.r.l. • Duple 100 VE • Via Salaria 10/A, P.z. 21 • 00198 Roma (RM) • Italia • www.alusic.it • TUV*

Organismo Notificatore/Notified body N./No. 0474
 RINA Services S.p.A.
 Via Corsica, 12 - 10128 Genova (GE)
 Italy

CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL
 N./No. 0474-CPR-1190

In conformità al Regolamento N. 305/2011/UE del Parlamento Europeo e del Consiglio del 9 marzo 2011 (Regolamento Prodotti da Costruzione) e CPR, questo certificato si applica ai prodotti da costruzione /
 In compliance with Regulation No. 305/2011/UE of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation) or CPR, this certificate applies to the construction product

Componenti strutturali a kit per strutture di alluminio / Structural components and kits for aluminum structures
 come descritto nell'allegato al presente certificato / as described in the annex to this certificate
 prodotto dal fabbricante / produced by the manufacturer
ALUSIC S.R.L.
 Via Bologna, 10/A - 12084 Mondovì (CN)
 nello stabilimento di produzione / in the manufacturing plant
 Via Bologna, 10/A - 12084 Mondovì (CN)

Il presente certificato attesta che tutte le disposizioni riguardanti la valutazione e la verifica della costanza delle prestazioni descritte nell'Allegato ZA della norma /
 This certificate attests that all provisions concerning the assessment and verification of consistency of performance described in Annex ZA of the standard

EN 1090-1:2009/A1:2011
 nell'ambito del sistema 2+, sono applicate e che i sistemi 2+, are applied and that

Il controllo della produzione in fabbrica soddisfa tutti i requisiti prescritti di cui sopra /
 the factory production control fulfills all the prescribed requirements set out above

Il presente certificato è stato emesso in piena conformità con la direttiva 2010/64/UE e i requisiti di prova e di requisiti del controllo della produzione in fabbrica stabiliti nella norma armonizzata di cui sopra, utilizzati per valutare la prestazione delle caratteristiche dichiarate, non cambiate, e i prodotti in condizioni di produzione nelle stabilimenti non sottoposti a modifiche significative.
 This certificate was first issued on 20/03/2015 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonized standard set out above, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly.

Genova, 26/03/2015
 RINA Services S.p.A.
 Il Direttore Tecnico / Technical Manager
 (Ing. Paolo SALZA)

Revisione n. / Revision no.: 0

RINA Services S.p.A.
 Sedi e uffici: 00185 Roma S.p.A.
 Via Corsica, 12 - 10128 Genova

C.F./P. IVA / R.E. Genova N. 02467940104
 Cap. Soc. € 3.000.000/000 I.v.

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 www.rina.org - info@rina.org

Organismo Notificatore/Notified body N./No. 0474
 RINA Services S.p.A.
 Via Corsica, 12 - 10128 Genova (GE)
 Italy

ALLEGATO AL CERTIFICATO DI CONFORMITÀ DEL CONTROLLO DELLA PRODUZIONE IN FABBRICA / ANNEX TO CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL
 N./No. 0474-CPR-1190

DESCRIZIONE DEI PRODOTTI OGGETTO DEL CERTIFICATO / DESCRIPTION OF PRODUCTS TO WHICH THE CERTIFICATE REFERS

Tipologia componenti / Type of components	Manufatti in alluminio non saldati per carpenteria strutturale / Aluminum components for structural works without welding
Norma - requisiti tecnici Standard - technical requirements	EN 1090-1 / EN 1090-3
Classi di esecuzione / Execution class(es)	EXC1; EXC2; EXC3
Metodi di Marcatura CE / Method(s) CE marking	2; 3a; 3b
Procedure di saldatura EN ISO 5847 / Welding process(es) EN ISO 5847	N.A.
Materiali base ISO/TR 16007 / Parent material(s) ISO/TR 16007	N.A.
Responsabilità del coordinatore di saldatura / Name of responsible welding coordinator	N.A.

Genova, 26/03/2015
 RINA Services S.p.A.
 Il Direttore Tecnico / Technical Manager
 (Ing. Paolo SALZA)

Revisione n. / Revision no.: 0

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SIMBOLI / SYMBOLS / SÍMBOLOS / SYMBOLES / SYMBOLE



Scatola

Box
Caja
Boîte
Schachtel



Portata

Load
Carga
Charge
Tragkraft

NEW

Prodotto nuovo

New product
Nuevo producto
Nouveau produit
Neues Produkt

STAINLESS STEEL

Prodotto in inox

Stainless steel product
Producto de acero inoxidable
Produit en acier inoxydable
Produkt aus rostfreiem Stahl

ITALIAN PATENT

Prodotto brevettato

Patented product
Producto patentado
Produit breveté
Patentiertes Produkt

PATENT

PROFILI STRUTTURALI ALUSIC

ALUSIC STRUCTURAL PROFILES / PERFILES ESTRUCTURALES ALUSIC / PROFILÉS STRUCTURELS ALUSIC / KONSTRUKTIONSPROFILE ALUSIC

IT Tutti i profili del catalogo Alusic sono realizzati per estrusione di lega di alluminio primario EN-AW 6060 (Al Mg Si 0.5) o a richiesta in lega di alluminio primario EN-AW 6063.

Lo stato metallurgico di fornitura è T5/T6 (solubilizzato, temprato e invecchiato artificialmente). Le barre sono normalmente fornite anodizzate con profondità di trattamento in classe 12 µm (a richiesta la maggior parte dei profili può essere fornita grezza). Le tolleranze generali seguite per l'estrusione dei profili seguono la norma UNI-EN 12020-2.

EN All profiles in the Alusic catalogue are extruded from EN-AW 6060 (Al Mg Si 0.5) primary aluminium alloy, or on request from EN-AW 6063 primary aluminium alloy.

The aluminium used is supplied as T5/T6 temper (cooled from hot working/solution heat treated and artificially aged). The bars are normally supplied with a 12 µm anodising treatment (on request, most profiles can also be supplied as mill finish). The tolerances applied when extruding the profiles follow EN 12020-2.

ES Todos los perfiles del catálogo Alusic están fabricados mediante extrusión de aleación de aluminio primario EN-AW 6060 (Al-Mg-Si 0.5) o, bajo solicitud, en aleación de aluminio primario EN-AW 6063.

El estado metalúrgico en que se suministran es T5/T6 (solubilizado, templado y envejecido artificialmente). Las barras normalmente se suministran anodizadas, con una profundidad de tratamiento de 12 µm (bajo solicitud, la mayor parte de los perfiles puede suministrarse en bruto). Las tolerancias generales conseguidas mediante la extrusión de los perfiles son acordes a la norma UNI-EN 12020-2.

FR Tous les profilés du catalogue Alusic sont réalisés par extrusion à partir d'alliage d'aluminium primaire EN-AW 6060 (Al Mg Si 0.5) ou sur demande en alliage d'aluminium primaire EN-AW 6063.

L'état métallurgique de fourniture est l'état T5/T6 (solubilisé, trempé et vieilli artificiellement). Les barres sont fournies anodisées avec une profondeur de traitement en classe 12 µm (sur demande, la plupart des profilés peuvent être fournis bruts). Les tolérances générales appliquées à l'extrusion des profilés respectent la norme UNI-EN 12020-2.

DE Alle Profile des Alusic-Katalogs werden mittels Strangpressen aus der Primäraluminiumlegierung EN-AW 6060 (Al Mg Si 0,5) oder auf Anfrage aus der Primäraluminiumlegierung EN-AW 6063 hergestellt.

Der metallurgische Lieferzustand ist T5/T6 (Lösungsgeglüht, abgeschreckt aus der Warmumformungstemperatur und warmausgehärtet). Normalerweise werden die Stangen dem Eloxalverfahren unterzogen und haben eine 12 µm dicke Schutzschicht (auf Anfrage sind die meisten der Profile auch ohne Eloxierung erhältlich). Für die Strangpressung der Profile wurden die allgemeinen Toleranzen der Norm UNI EN 12020-2 eingehalten.

COMPOSIZIONE DELLE LEGHE

CHEMICAL COMPOSITION OF ALLOYS / COMPOSICIÓN QUÍMICA DE LAS ALEACIONES

COMPOSITION CHIMIQUE DES ALLIAGES / CHEMISCHE ZUSAMMENSETZUNG DER LEGIERUNGEN

EN-AW	Cu	Fe	Mn	Mg	Si	Zn	Cr	Ti	Al
6060	0.10	0.1-0.3	0.10	0.35-0.6	0.3-0.6	0.15	0.05	0.10	dal 98% al 99%
6063	0.10	0.35	0.10	0.45-0.9	0.2-0.6	0.10	0.10	0.10	dal 97,5% al 98,5%

CARATTERISTICHE MECCANICHE

MECHANICAL PROPERTIES / CARACTERÍSTICAS MECÁNICAS

CARACTÉRISTIQUES MÉCANIQUES / MECHANISCHE EIGENSCHAFTEN

EN-AW	Rm (N/mm ²)	Rp0,2 (N/mm ²)	A (%)	HB
6060	190	150	8	70
6063	215	170	8	75

CARATTERISTICHE FISICHE

PHYSICAL PROPERTIES / CARACTERÍSTICAS FÍSICAS

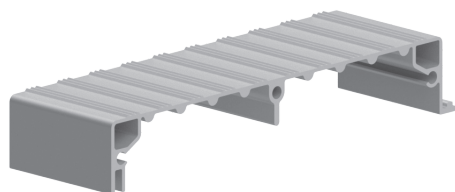
CARACTÉRISTIQUES PHYSIQUES / PHYSIKALISCHE EIGENSCHAFTEN

E (N/mm ²)	69000
ρ (Ω mm ² /m)	0.033
λ W/mK	210
T _m (C°)	615 - 655
α (K ⁻¹)	25X10 ⁻⁶



SCALINO
STEP
ESCALÓN
MARCHE
STUFE

CODICE	lx cm ⁴	ly cm ⁴	wx cm ³	wy cm ³	mm ²	Kg/m
084.101.065	22,89	1239,82	10,06	91,16	1486,23	4,01



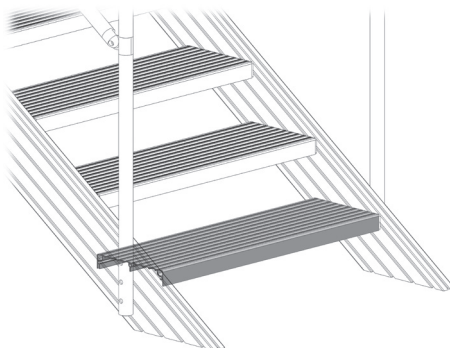
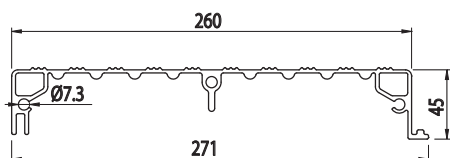
Alluminio anodizzato

Anodised aluminium - Aluminium anodisé
Aluminio anodizado - Eloxiertes Aluminium

Colore naturale

Natural colour - Couleur naturelle
Color natural - Natürliche Farbe

L=6,040m



Ø40

CODICE	lx cm ⁴	ly cm ⁴	wx cm ³	wy cm ³	mm ²	Kg/m
084.101.066	8,59	8,59	4,3	4,3	549,8	0,95



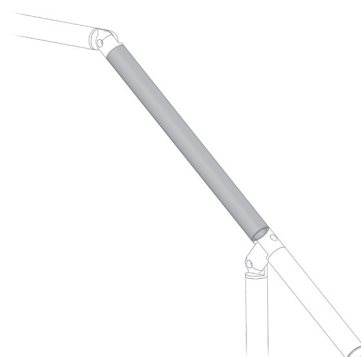
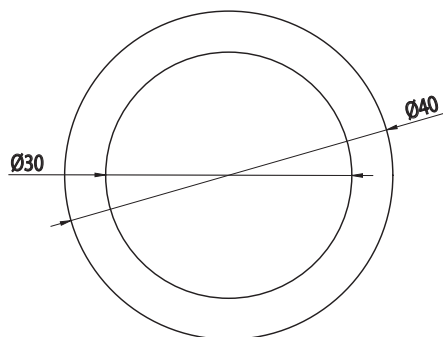
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Colore naturale

Natural colour - Couleur naturelle
Color natural - Natürliche Farbe

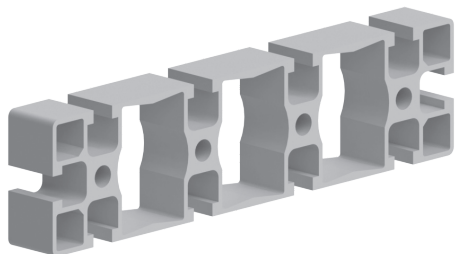
L=6,040m



45x180

AC
8
45

CODICE	lx cm ⁴	ly cm ⁴	wx cm ³	wy cm ³	mm ²	Kg/m
084.101.022	48,33	689,89	21,48	76,65	2206	5,96



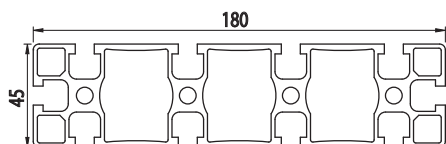
Alluminio anodizzato

Anodised aluminium - Aluminium anodisé
Aluminio anodizado - Eloxiertes Aluminium

Colore naturale

Natural colour - Couleur naturelle
Color natural - Natürliche Farbe

L=6,040m

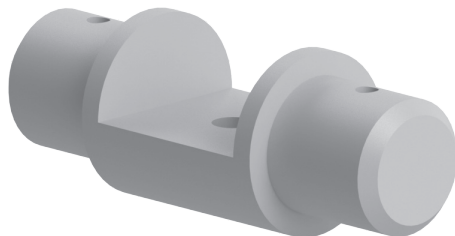


Tappo - Cap - Tapòn - Embout - Abdeckkappe			
CODICE	Materiale	g	Colore
084.201.022	PA	23	■
084.201.022G	PA	23	■

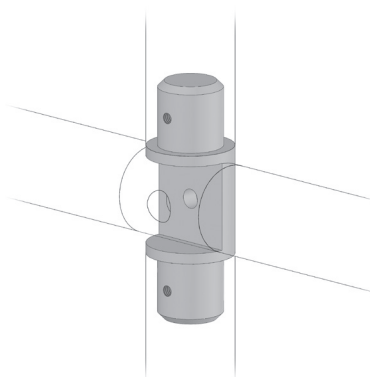
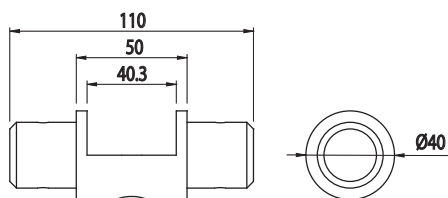


GIUNTO 2 VIE
TWO-WAY JOINT
EMPALME DE 2 VÍAS
JOINT 2 VOIES
ZWEI-WEGE-VERBINDER

CODICE	Note	g
084.313.005	Per tratti rettilinei - For straight sections - Para tramos rectilíneos - Pour sections rectilignes - Für gerade Abschnitte	140

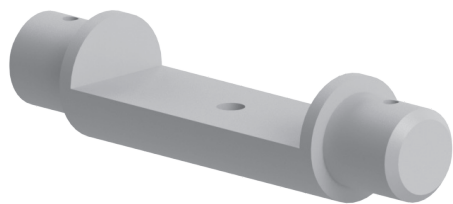


Alluminio burattato
Tumbled aluminium - Aluminium poli au tonneau
Aluminio pulido - Trowalisiertes Aluminium

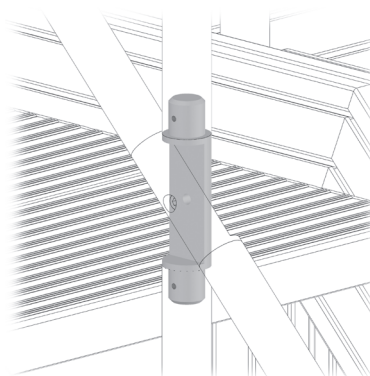
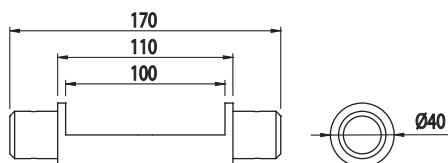


GIUNTO 2 VIE
TWO-WAY JOINT
EMPALME DE 2 VÍAS
JOINT 2 VOIES
ZWEI-WEGE-VERBINDER

CODICE	Note	g
084.313.004	Per tratti inclinati - For angled sections - Para tramos inclinados - Pour sections inclinées - Für geneigte Abschnitte	200



Alluminio burattato
Tumbled aluminium - Aluminium poli au tonneau
Aluminio pulido - Trowalisiertes Aluminium



GIUNTO 3 VIE FISSO

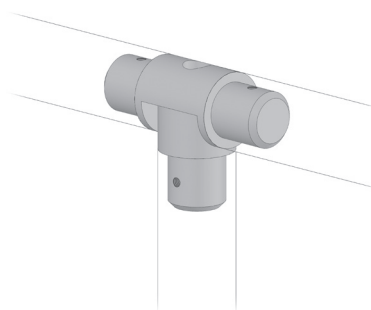
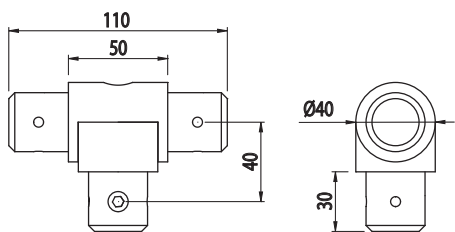
FIXED 3-WAY JOINT
EMPALME 3 VÍAS FIJO
JOINT 3 VOIES FIXE
FESTER DREI-WEGE-VERBINDER



CODICE	Note	g
084.313.003	Per tratti rettilinei - For straight sections - Para tramos rectilíneos - Pour sections rectilignes - Für gerade Abschnitte	180

Alluminio burattato

Tumbled aluminium - Aluminium poli au tonneau
Aluminio pulido - Trowalisiertes Aluminium



GIUNTO 3 VIE SNODATO

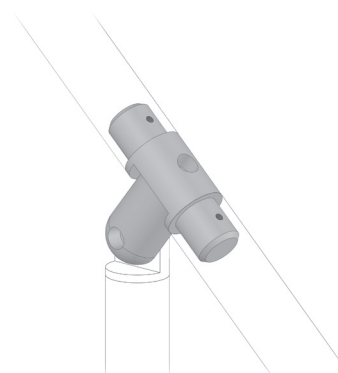
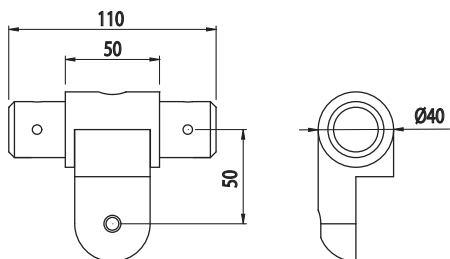
ARTICULATED 3-WAY JOINT
EMPALME 3 VÍAS ARTICULADO
JOINT 3 VOIES ARTICULÉ
DREI-WEGE-VERBINDER MIT GELENK



CODICE	Note	g
084.313.002	Per tratti inclinati - For angled sections - Para tramos inclinados - Pour sections inclinées - Für geneigte Abschnitte	190

Alluminio burattato

Tumbled aluminium - Aluminium poli au tonneau
Aluminio pulido - Trowalisiertes Aluminium



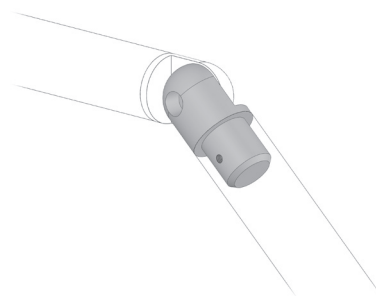
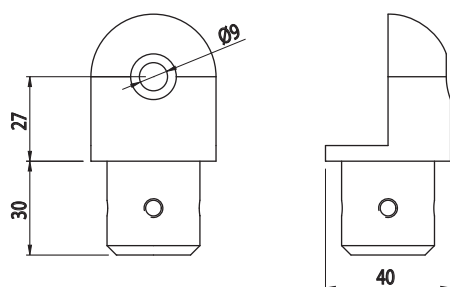


GIUNTO SNODATO
 ARTICULATED JOINT
 EMPALME ARTICULADO
 JOINT ARTICULÉ
 VERBINDER MIT GELENK



CODICE	Note	g
084.313.001	Per tratti inclinati - For angled sections - Para tramos inclinados - Pour sections inclinées - Für geneigte Abschnitte	95

Alluminio burattato
 Tumbled aluminium - Aluminium poli au tonneau
 Aluminium pulido - Trowalisiertes Aluminium

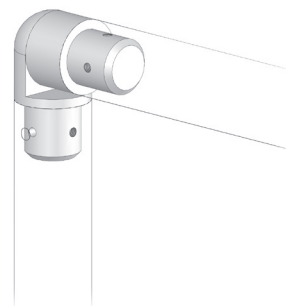
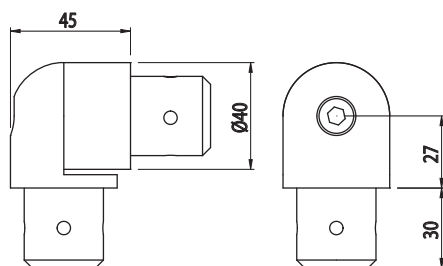


GIUNTO 90°
 90° JOINT
 EMPALME 90°
 JOINT 90°
 VERBINDER 90°



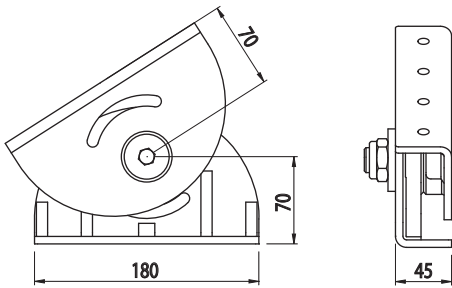
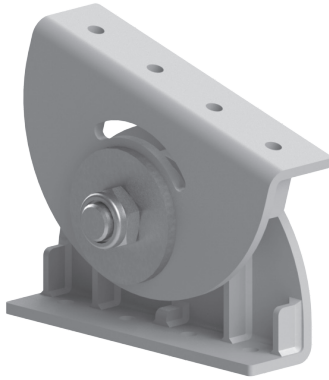
CODICE	Note	g
084.313.106	Per giunzioni a 90° - For 90° connectors - Para uniones en 90° - Pour jonctions à 90° - Für 90°-Verbindungen	180

Alluminio burattato
 Tumbled aluminium - Aluminium poli au tonneau
 Aluminium pulido - Trowalisiertes Aluminium



KIT FISSAGGIO PROFILI

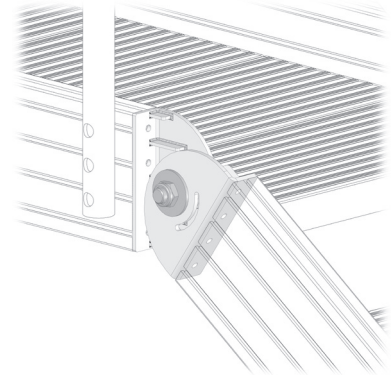
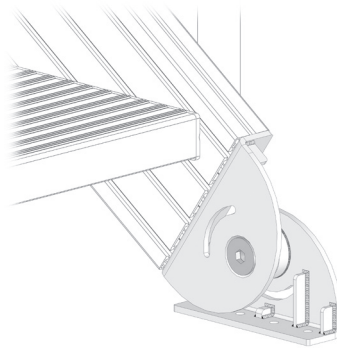
PROFILE FASTENING KIT
KIT FIJACIÓN PERFILES
KIT FIXATION PROFILÉS
BEFESTIGUNGSKIT FÜR PROFILE



CODICE	Note	g
084.313.006	Giunto snodato per fissaggio profili 45x180 - Articulated joint for fastening 45x180 profiles - Empalme articulado para fijación de perfiles 45x180 - Joint articulé pour fixation profilés 45x180 - Verbinder mit Gelenk für Befestigung der Profile 45x180	1920

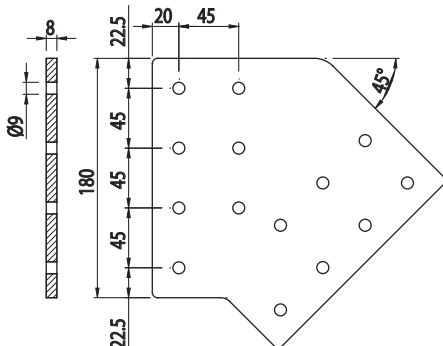
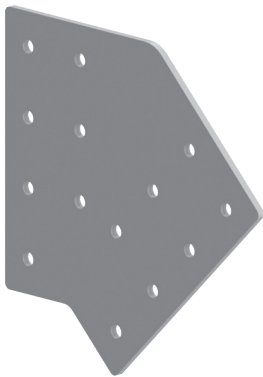
Acciaio zincato

Galvanised steel - Acier zingué
Acero galvanizado - Verzinkter Stahl



PIASTRA 45°

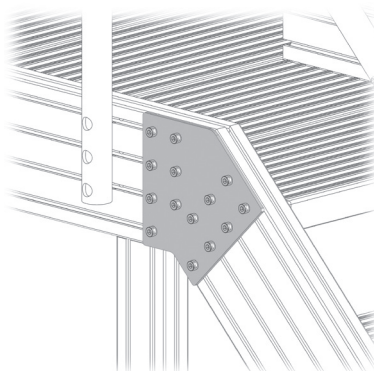
45° PLATE
PLACA 45°
PLAQUE 45°
PLATTE 45°



CODICE	Note	g
084.313.013	Piastra laterale per scala a 45° - Lateral plate for 45° steps - Placa lateral para escalera en 45° - Plaque latérale pour escalier à 45° - Seitenplatte für Treppe 45°	1270

Acciaio zincato

Galvanised steel - Acier zingué
Acero galvanizado - Verzinkter Stahl

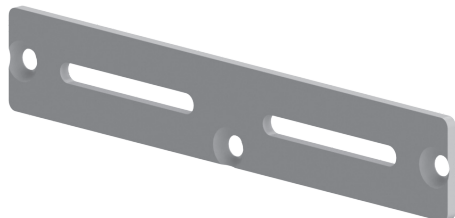




COPPIA PIASTRE FISSAGGIO SCALINO

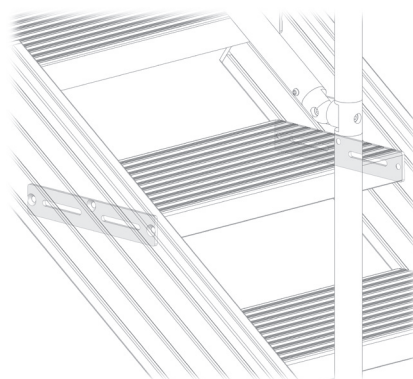
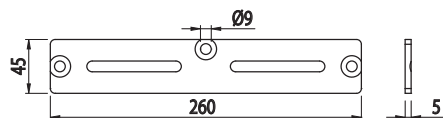
PAIR OF STEP FIXING PLATES
PAR DE PLACAS DE FIJACIÓN ESCALÓN
PAIRE PLAQUES DE FIXATION MARCHÉ
PLATTENPAAR TREPPENBEFESTIGUNG

CODICE	Note	g
084.313.007	Coppia piastre per il fissaggio dello scalino - Pair of plates for step fixing - Par de placas para la fijación del escalón - Paire plaques de la fixation de la marche - Plattenpaar für die Treppenbefestigung	810



Acciaio zincato

Galvanised steel - Acier zingué
Acero galvanizado - Verzinkter Stahl



TAPPO GIUNTO

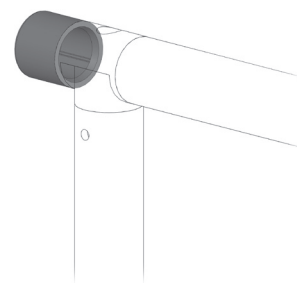
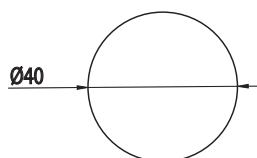
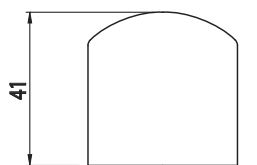
JOINT CAP
TAPÓN UNIÓN
BOUCHON JOINT
ABDECKKAPPE FÜR VERBINDER

CODICE	Note	g
084.313.010	Tappo per giunti in alluminio - Aluminium joint cap - Tapón para uniones de aluminio - Bouchon pour joints en aluminium - Abdeckkappe für Verbinder aus Aluminium	30



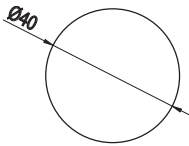
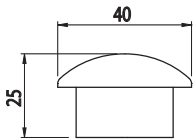
Polietilene nero

Black polythene - Polyéthylène noir
Polietileno color negro - Polyethylen schwarz

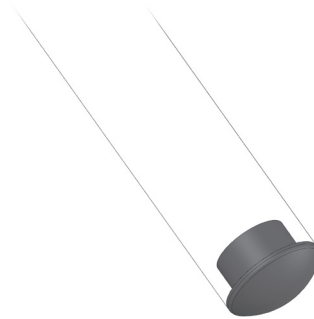


TAPPO
CAP
TAPÓN
BOUCHON
ABDECKKAPPE

CODICE	Note	g
084.313.008	Tappo per profilo 084.101.066 - Cap for profile 084.101.066 - Tapón para perfil 084.101.066 - Bouchon pour profilé 084.101.066 - Abdeckkappe für Profil 084.101.066	20

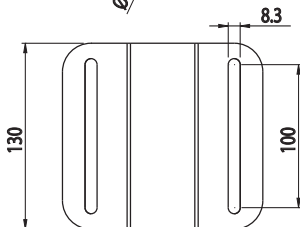
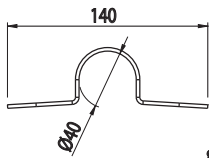


Polietilene nero
Black polythene - Polyéthylène noir
Polietileno color negro - Polyethylen schwarz

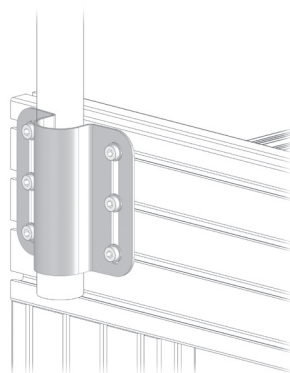


STAFFA PER PARAPETTO
BRACKET FOR RAIL
ESTRIBO PARA BARANDILLA
BRIDE POUR PARAPET
BÜGEL FÜR GELÄNDER

CODICE	Note	g
084.313.009	Staffa per fissaggio parapetto - Bracket for rail fastening - Estribo para fijación de barandilla - Bride de fixation parapet - Bügel für Geländerbefestigung	30



Acciaio zincato
Galvanized steel - Acier zingué
Acero galvanizado - Verzinkter Stahl





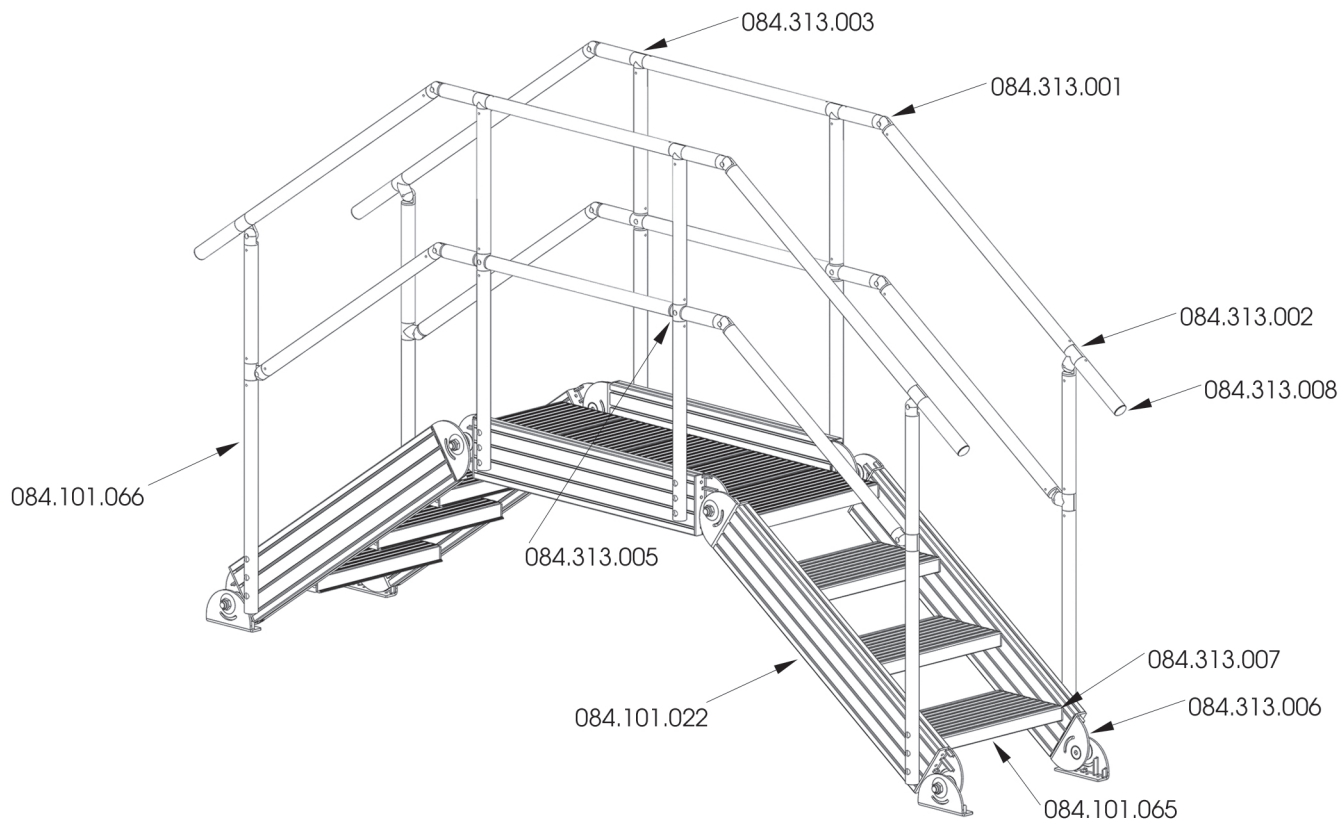
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EXAMPLE OF CROSSOVER STAIR

EJEMPLO DE PASARELA PARA CRUZAR UNA LÍNEA DE PRODUCCIÓN

EXAMPE DE PASSERELLE POUR TRAVERSER UNE LIGNE DE PRODUCTION

BEISPIEL EINER ÜBERSTIEGE ZUR ÜBERBRÜCKUNG VON EINER PRODUKTIONSLINIE



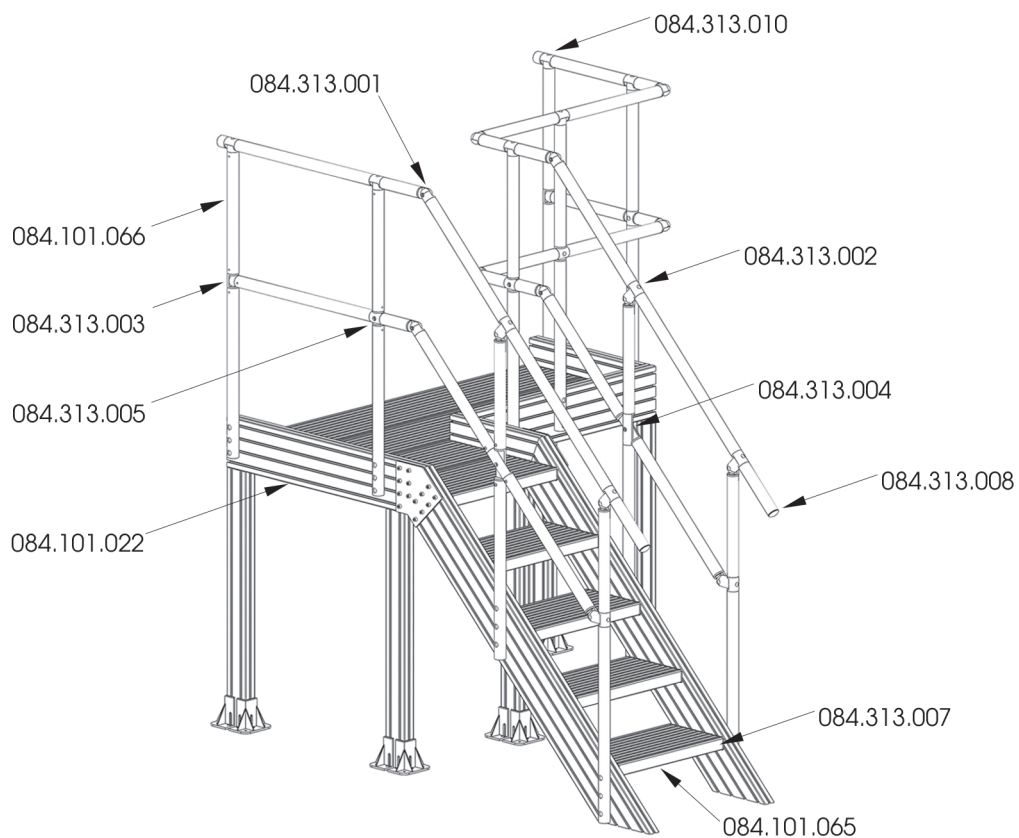
ESEMPIO DI SCALA CON PIANEROTTOLO

EXAMPLE OF STAIR WITH LANDING

EJEMPLO DE ESCALERA CON RELLANO

EXAMPE D'ESCALIER AVEC PALIER

BEISPIEL EINER TREPPE MIT TREPPENABSATZ





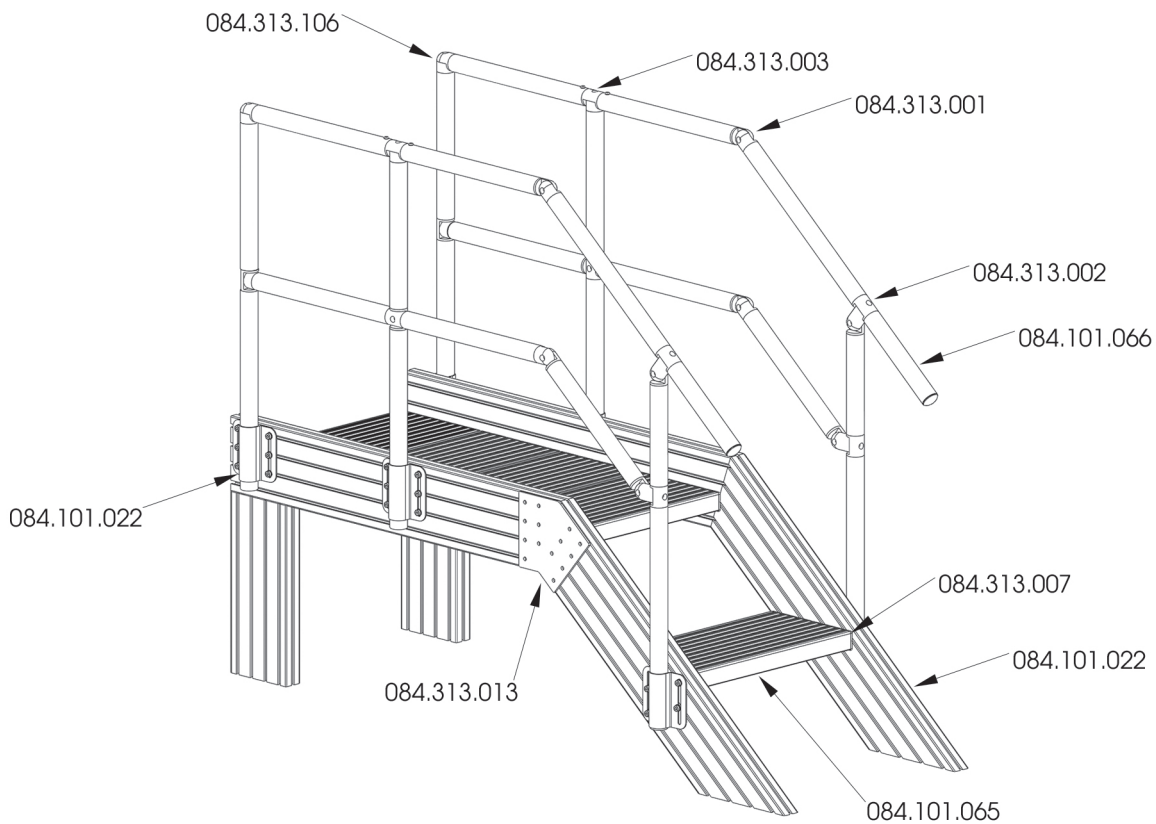
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BEISPIEL EINER FESTEN TREPPENSTEIGUNG



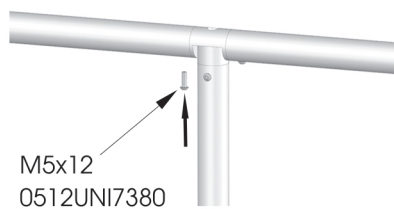
MONTAGGIO DEL TUBO

TUBE ASSEMBLY

MONTAJE DEL TUBO

MONTAGE DU TUBE

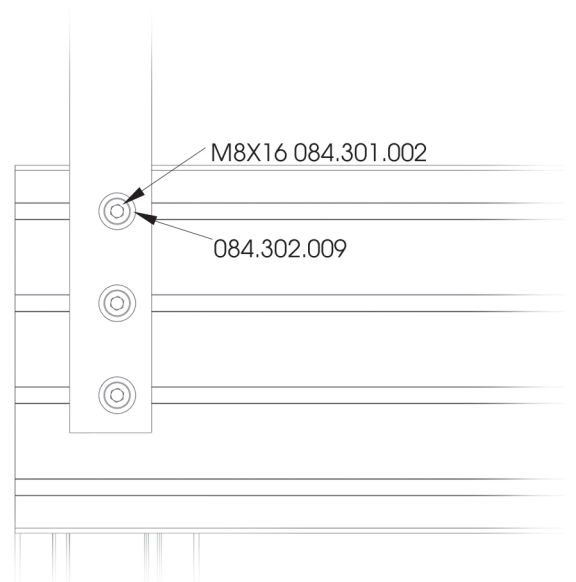
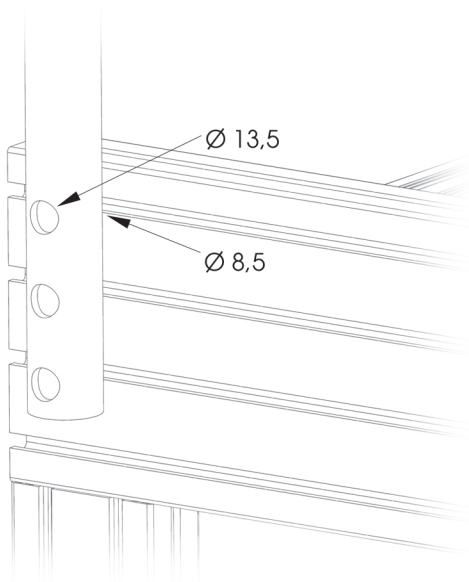
ROHRMONTAGE





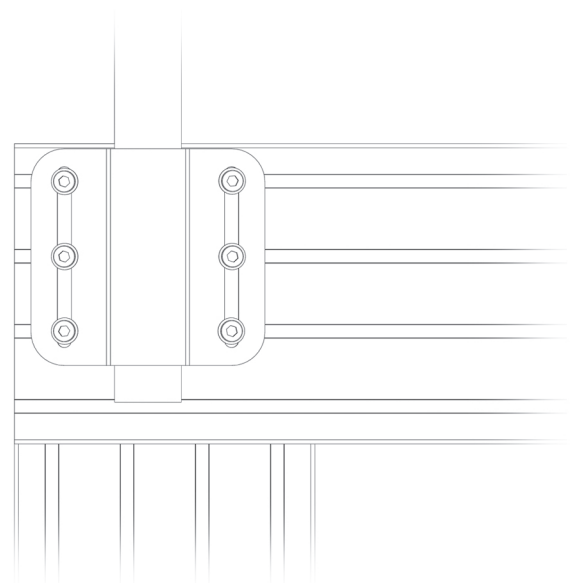
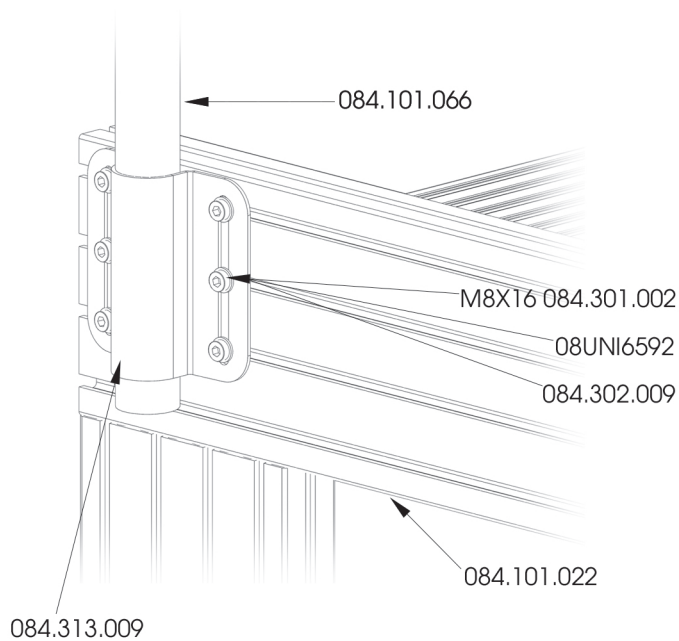
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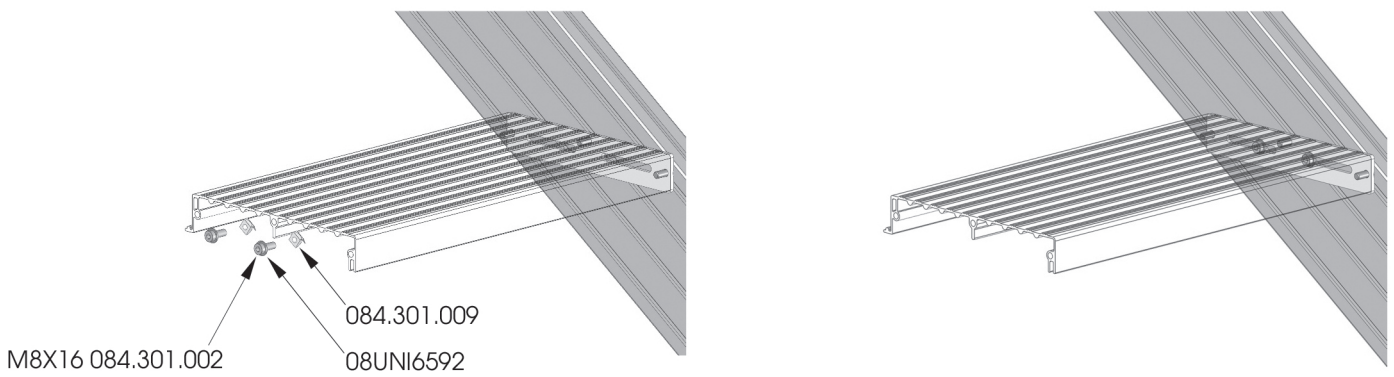
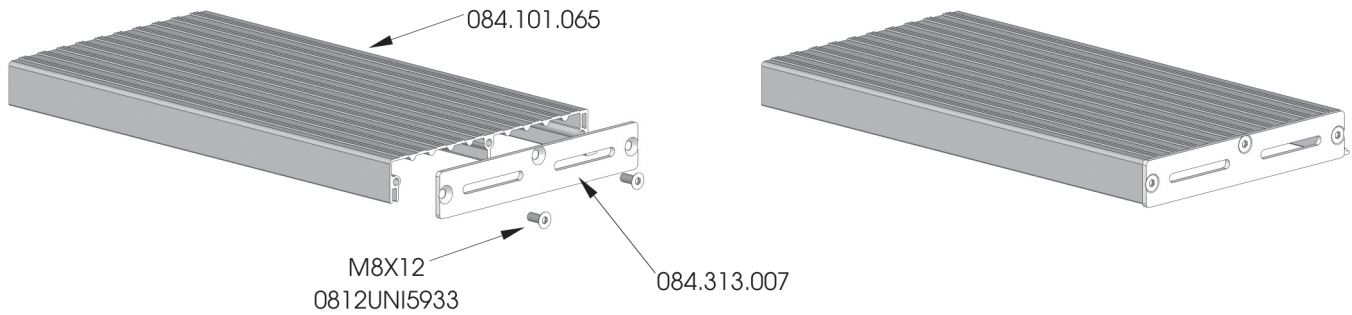
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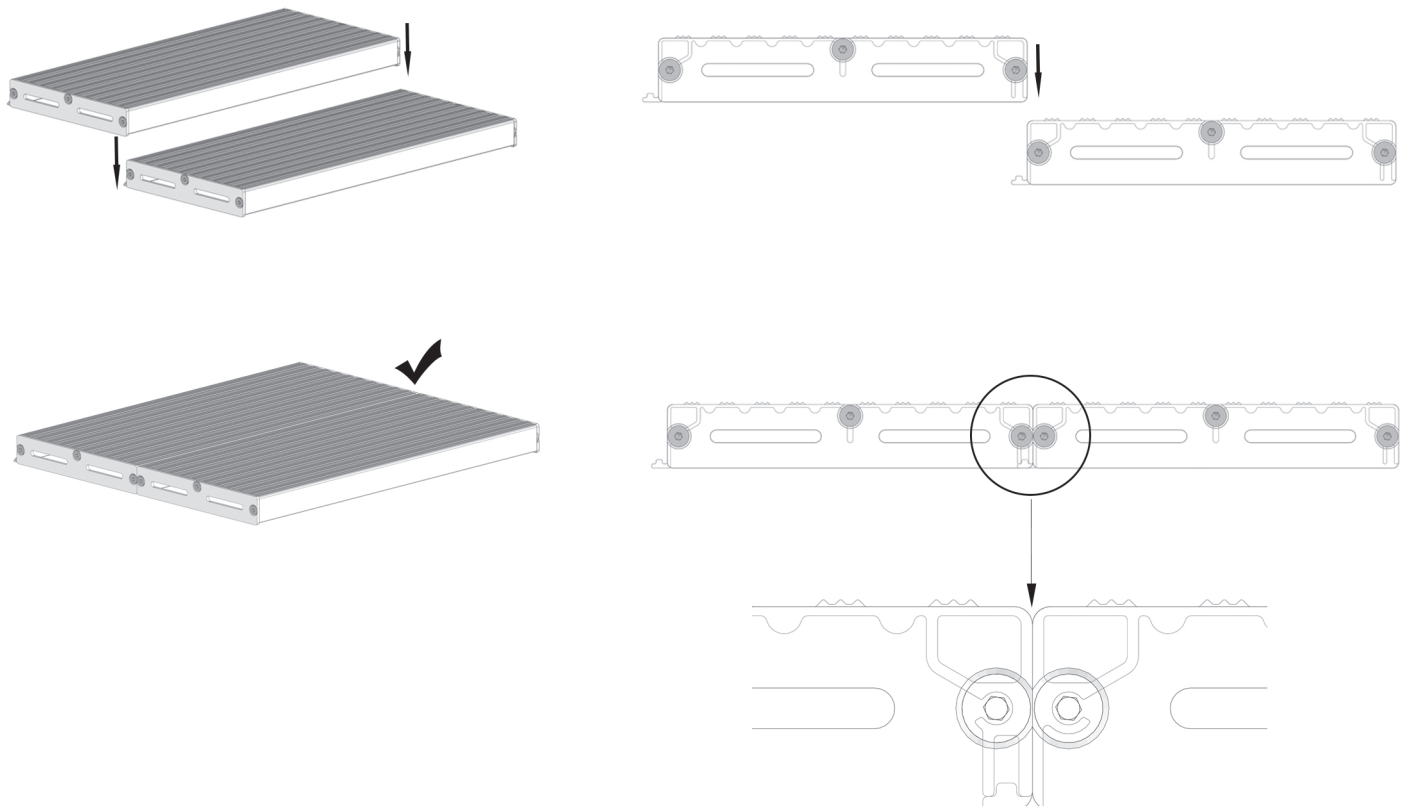
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ASSEMBLY SYSTEM
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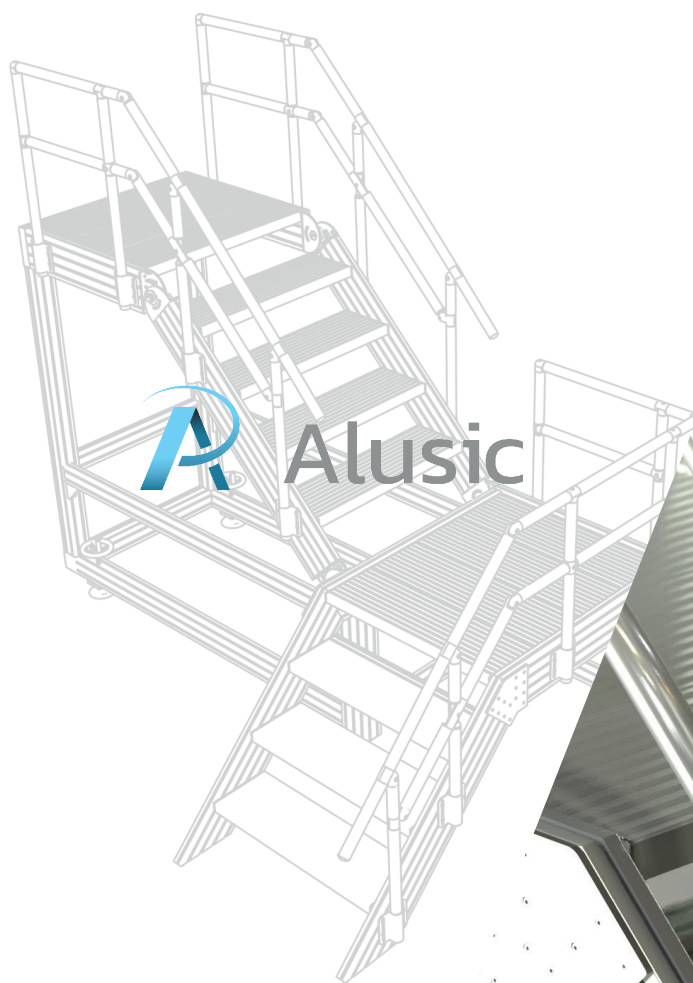
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