



The world leader in sheet piling connections

 *Connectors for sheet piling and steel pipe walls*

 *Technologically advanced*

 *Verbindungsprofile für Spundwände*

Technologisch überlegen

 *Perfiles de unión para tablestacas*

 *Tecnológicamente avanzado*

 *Profilés de raccordement pour rideaux de palplanches*

La supériorité technologique

 *Profili per connessioni in palancole*

Tecnologicamente all'avanguardia



Larsen Z / Larsen U 7



Ball & Socket (PZ/PZC) 21



Flat Sheet 33



Cold Formed 51

2011

www.pilepro.com

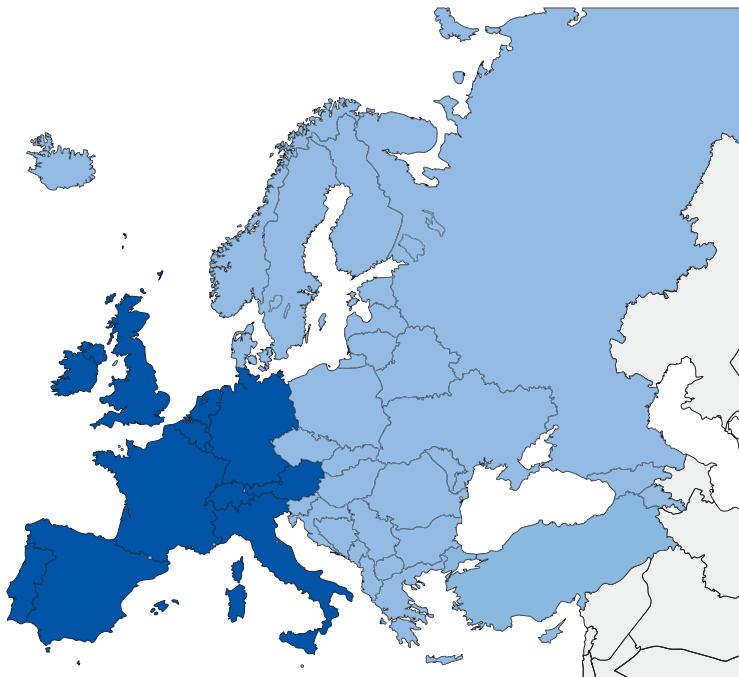


AZ / Larsen U		Ball & Socket		Flat Sheet		Cold Formed		Hoesch	
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Combined Sheet Piles

V 22	17
PBS-M PBS-F	29
WOM WOF	31
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Most PilePro® products are available immediately for delivery to your project site.

- 1-2 days
- 3-7 days

Some restrictions apply



About PilePro®

PilePro® is the world's only full line connector manufacturer for the steel sheet pile industry

PilePro® manufactures corners and connectors for all types of sheet pile used around the world. The connectors are made to highly stringent standards that form precise, seamless connections between steel sheet pile, and other support systems, such as H-Beam, I-Beam and Pipes/Tubes.

These connectors are often modular in nature and come to the contractor or end user as a "ready-to-install" component. In addition to ready stock in our main markets, PilePro also offers specialty made-to-order connectors that form high value engineering solutions.

PilePro® connectors have effectively rendered fabricating corners and other connection processes in steel piling construction projects a relic of the past. For today's foundation and port construction projects, PilePro® connectors give the design engineers, contractors and project owners a cost-effective, readily available engineered solution that increases efficiency, ease of installation, and increases the strength of their retaining system.

PilePro® connectors are produced with the highest quality control standards. Every product utilizes advanced computer aided manufacturing technologies which are then measured again by hand prior to shipment, this process ensures that all dimensions are within precision tolerances to perfectly match the appropriate sheet piling section.

PilePro® engineered profiles make it possible to replace traditional fabricated connectors with a one-piece, seamless steel profile.

In addition to having the highest quality control standards, PilePro® connectors are rapidly emerging as the "go to" product in port, island, cofferdam and other construction projects around the world.

For updated technical data and current specifications please see website www.PilePro.com

Reliable

- Less corrosion risk than fabrication: PilePro® corner connectors offer a one-piece construction that do not rely on a single vertical weld seam. There is never a risk of "unzipping" at the corner or junction pile.
- PilePro® connectors are interlocked and attached to the sheet piling so single unit integrity of the steel wall unit is always maintained.
- Durability: PilePro® corner connectors are stronger and more durable than other alternatives.

Flexible

- Design: Precise engineering and superior design means PilePro® connectors have greater flexibility within the interlock – typically a 20° to 30° of swing versus the 2° to 5° of swing found in most sheet pile interlocks.
- Less expense: PilePro® connectors provide superior cornering and connection solutions on a Customary Quick Delivery (CQD) basis through an efficient logistics network. Through this network, products may be delivered directly to the job site.

Fast

- Easy Transport: PilePro® connectors are easily and efficiently transported with minimal risk of damage. Contrast that, with fabricated corners that cost more, weigh more and are prone to handling damage.
- No delay: PilePro® connectors enable the user to immediately build sheet wall configurations without the traditional fabrication process.
- Less inventory: Modular corners and connectors allow distributors and contractors to greatly lower their inventory. PilePro® maintains a large stock of connectors that can be ordered on a "Customary Quick Delivery" (CQD) basis in a wide range of angles and lengths, thus eliminating the need for large standing inventories.
- PilePro® connectors are easier to drive and extract so that construction time is reduced.

CAD Service

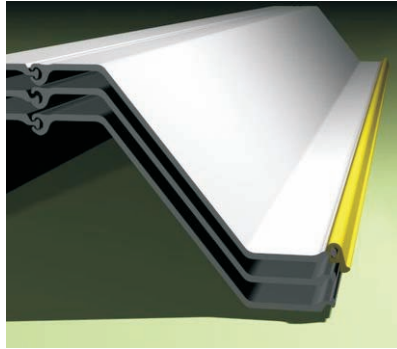
Downloads of data sheets and CAD files of all PilePro® corner and connector sheet pile sections are available at www.gooimeer.nl



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PZ 90
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PBS-M / PBS-F
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Please note:

1. The possibility of adjusting the profiles in the area of the interlock can vary due to size and rolling tolerances found in sheet pile interlocks
2. All angles specified are approximations and may vary
3. PilePro® connectors are protected by patents
4. PilePro® connectors are subject to technical modifications
5. Typical delivery terms and conditions for PilePro® connectors are in accordance to ASTM or EN 10248
6. Installation guidelines refer to both the steel sheet pile producers' welding configurations and the German EAU's. Further instructions are required only if the welding must be strengthened for anchor forces, shear forces, difficult driving conditions or other reasons.



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Overview

For Larssen, U, AZ, Hoesch with Larssen interlock



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Für Larssen, U, AZ, Hoesch mit Larssen-Schloss



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Combined Sheet Piles

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Transition Piles

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V 20

for Larssen Z / Larssen U



V 20

For 90° Corners (+/- 60°) with Larssen U/Z/AZ sheet piles

Installation

1. Please review the proper interlocking examples that are listed.
2. Thread the connector into the interlock while the sheet pile is out of the ground.
3. Adjust the connector to the appropriate position.
4. Tack or spot-weld the connector in place. Typically, a ~250mm (~10") weld, attaching the connector to the sheet pile to the top is sufficient.
5. Drive/extract the sheet pile (with the connector attached) as you would normally.

Properties

Steel grade:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Weight:	~8.85 lb/ft



V 20

Raccord variable de 30° à 150°

Pour Larssen U, AZ, Hoesch avec serrure Larssen

Domaines d'emploi

1. Raccordement de deux palplanches avec deux plages de pivotement
2. Aptitude au fonçage circulaire avec rideaux de palplanches doubles (déviations de palplanches de 30° à 150°)

A l'aide de doubles palplanches, il est possible de former un « S » avec tous les raccords.

Caractéristiques

Nuances d'acier:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Poids:	~13,2 kg/m



V 20

Variable Eckverbindung ~ 30° bis ~ 150°

Für Larssen U, AZ, Hoesch mit Larssen-Schloss

Einsatzgebiet

1. Erstellen von Eckverbindungen mit zwei Schwenkbereichen
2. Geeignet für Kreisrammungen mit Doppelbohlen (Auslenkung der Bohlen ~ 30° bis ~ 150°)

Alle Eckverbindungen können mit Doppelbohlen in S-Form erstellt werden.

**Eigenschaften**

Stahlgüten:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Gewicht:	~13,2 kg/m



V 20

Connessione per angolo variabile da ~ 30° a ~ 150°

Per Larssen U, AZ, Hoesch con gancio Larssen

Campo di applicazione

1. Realizzazione di connessioni ad angolo con due range di orientamento
2. Adatta per infissioni circolari con palancole doppie (deviazione delle palancole da ~ 30° a ~ 150°)

Tutte le connessioni ad angolo possono essere realizzate con palancole doppie, purchè a forma di S.

Caratteristiche

Qualità dell'acciaio:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Peso:	~13,2 kg/m



V 20

Unión angular variable de ~ 30° a ~ 150°

Para Larssen U, AZ, Hoesch con cerramiento Larssen

Ámbito de aplicaciones

1. Formación de uniones angulares con dos áreas de giro
2. Adecuada para hincado circular con pilotes dobles (movimiento de adaptación de los pilotes entre ~ 30° y ~ 150°)

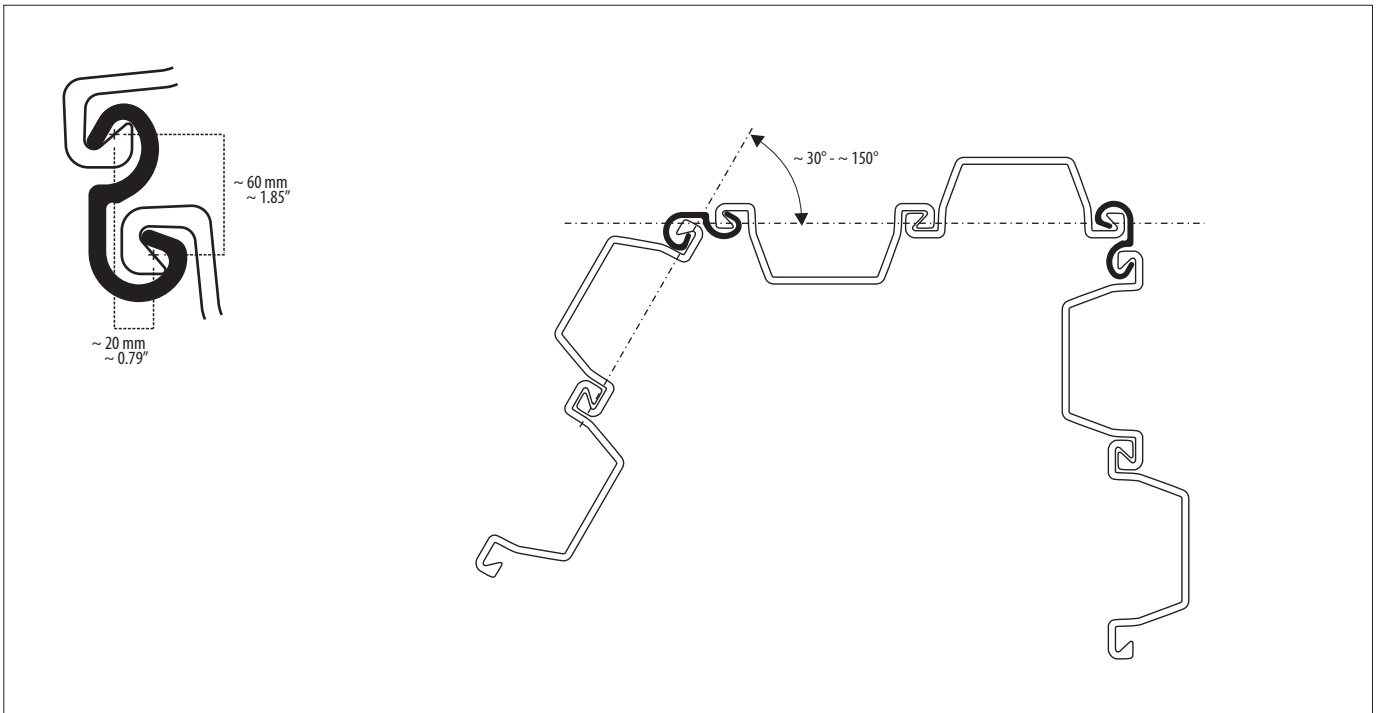
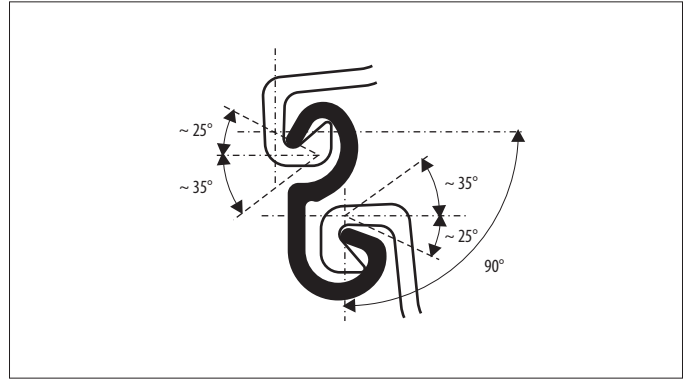
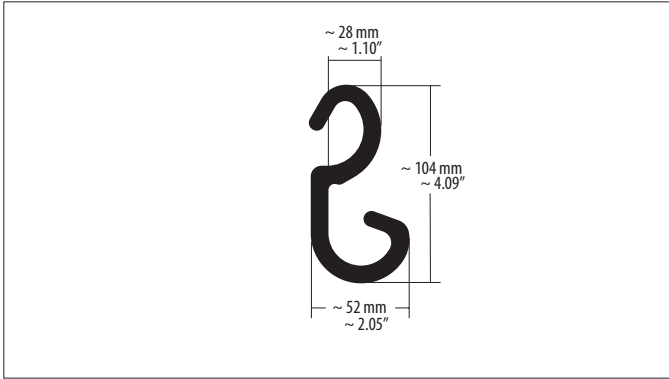
Todas las uniones angulares pueden formarse con pilotes dobles en forma de S.

Propiedades

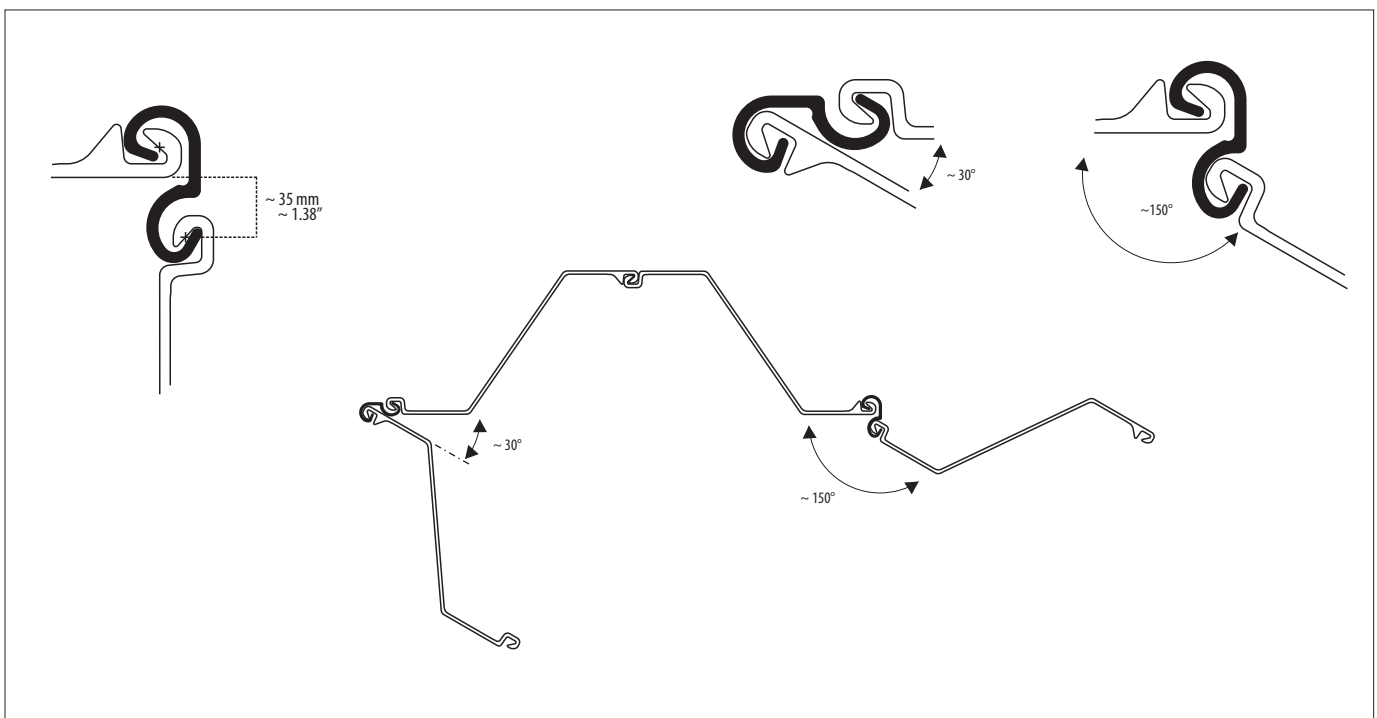
Calidades de acero:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Peso:	~13,2 kg/m



V 20



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Omega

For Omega corners (~70° to ~190°) with Larssen U/Z/AZ sheet piles

Installation

1. Please review the proper interlocking examples that are listed.
2. Thread the connector into the interlock while the sheet pile is out of the ground.
3. Adjust the connector to the appropriate position.
4. Tack or spot-weld the connector in place. Typically, a ~250mm (~10") weld, attaching the connector to the sheet pile to the top is sufficient.
5. Drive/extract the sheet pile (with the connector attached) as you would normally.

Properties

Steelgrade:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Weight:	~8.11 lb/ft



Omega

Raccord Omega, rideau à redans U

Pour Larssen U, AZ, Hoesch avec serrure Larssen

Domaines d'emploi

1. Raccordement pour une plage de pivotement comprise entre ~ 70° et ~ 190°
2. Profilé intermédiaire pour fonçage circulaire avec palplanche simple
3. Raccord à souder à extrémité double
4. Pour le rideau à redans U
5. Fermeture de cloisons de palplanches jointives

Le raccord Omega 12 se distingue par ses possibilités de réglage particulièrement importantes dans la zone de la serrure.

Caractéristiques

Nuances d'acier:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Poids:	~12,1 kg/m



Omega

Omega-Eckverbindungen, Jagged U-Walls

Für Larssen U, AZ, Hoesch mit Larssen-Schloss

Einsatzgebiet

1. Erstellung von Eckverbindungen für einen Schwenkbereich von ~ 70° bis ~ 190°
2. Zwischenprofil für Kreisrammungen mit Einzelbohlen
3. Anschweißprofil mit wahlweise doppeltem Abgang
4. Geeignet für Jagged-U-Walls
5. Geeignet zum Schließen von aufeinander zulaufenden Spundwänden

Das Profil Omega 12 zeichnet sich durch besonders großzügige Verstellmöglichkeiten im Schlossbereich aus.



Eigenschaften

Stahlgüte:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Gewicht:	~12,1 kg/m



Omega

Conessioni per angolo Omega, profilo a U composto

Per Larssen U, AZ, Hoesch con gancio Larssen

Campo di applicazione

1. Realizzazione di angoli nel range da ~ 70° a ~ 190°
2. Gancio intermedio per infissioni circolari con palancole singole
3. Profilo da saldare, a scelta con doppia derivazione
4. Adatto per pareti angolari composte con profili a U
5. Adatto per congiungere tratti di palancole provenienti da direzioni opposte

Particolarità del profilo Omega 12 è l' ampia possibilità di regolazione nella zona di giunzione.

Caratteristiche

Qualità dell'acciaio:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~12,1 kg/m



Omega

Uniones angulares Omega, perfiles en U dentados

Para Larssen U, AZ, Hoesch con cerramiento Larssen

Ámbito de aplicaciones

1. Formación de uniones angulares para un área de giro de entre ~ 70° y ~ 190°
2. Perfil intermedio para hincado circular con pilote individual
3. Perfil de soldadura con salida doble opcional
4. Adecuado para perfiles en U dentados - Jagged U-Walls
5. Adecuado para cerrar tablestacas que confluyen

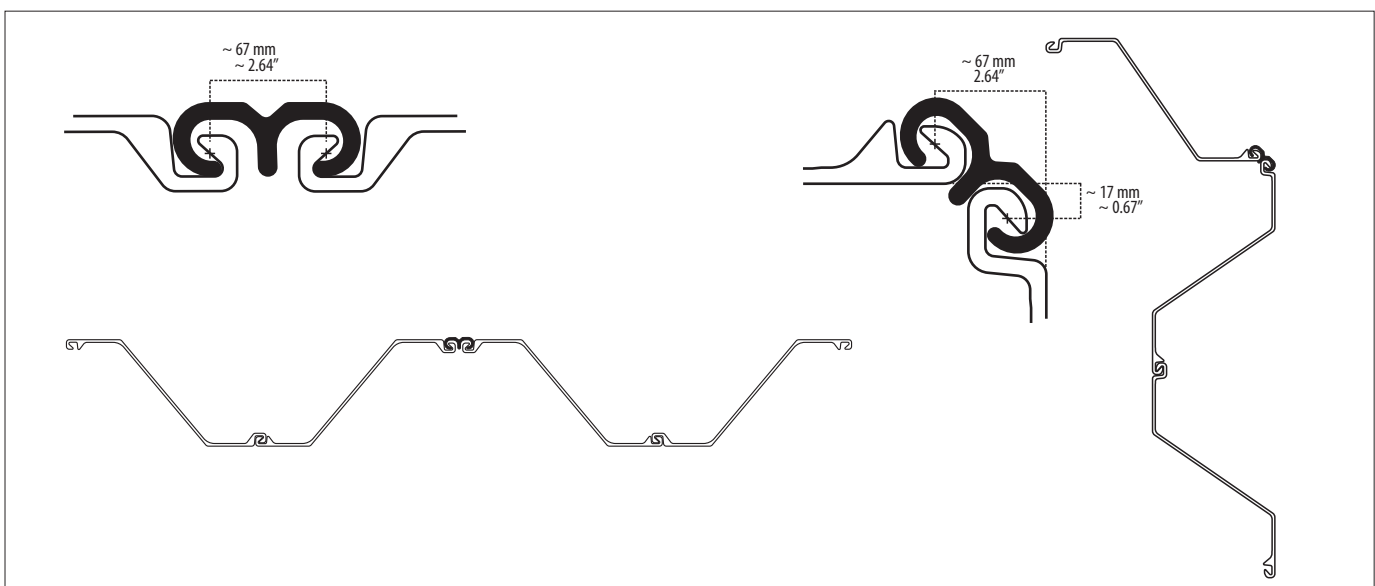
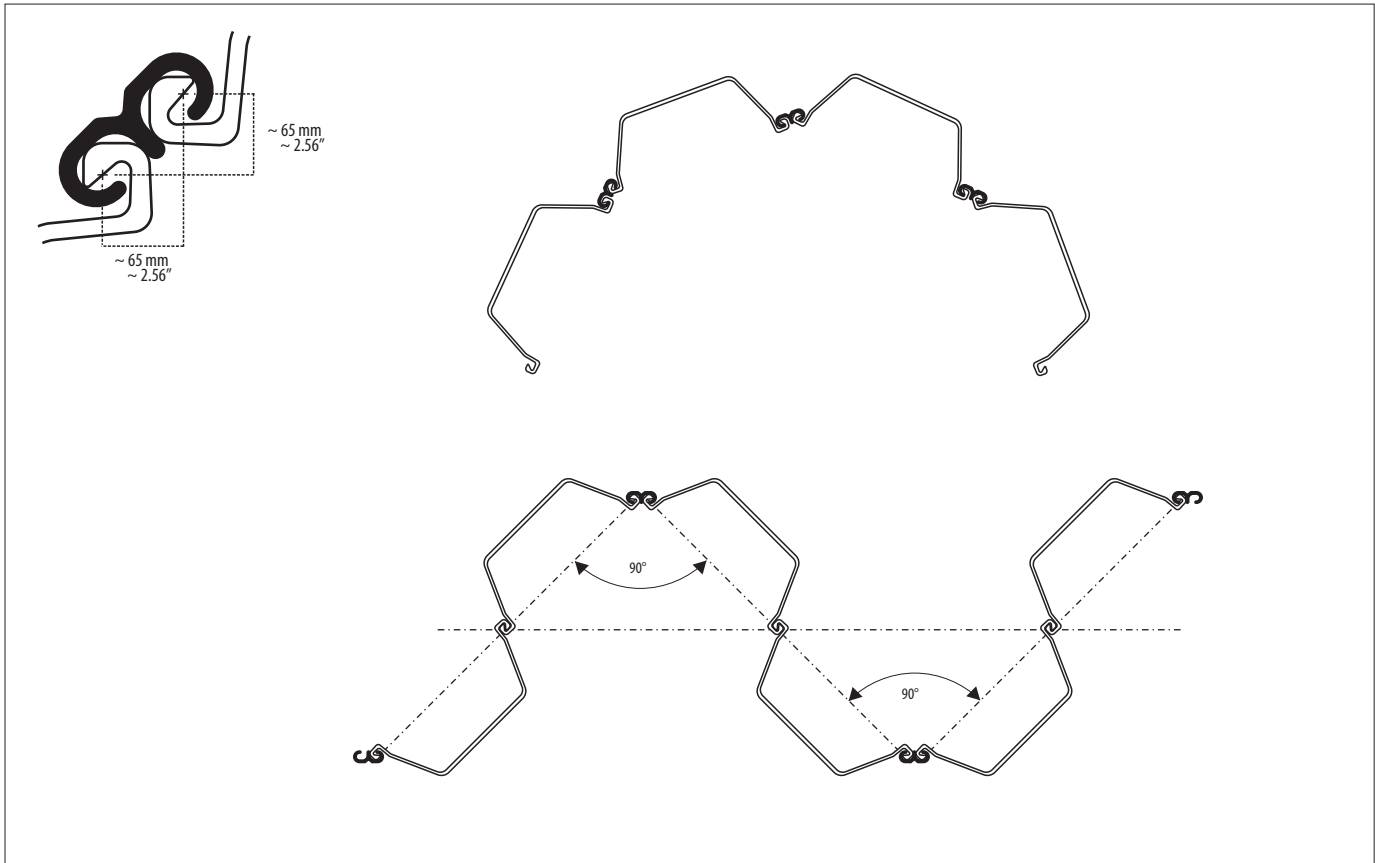
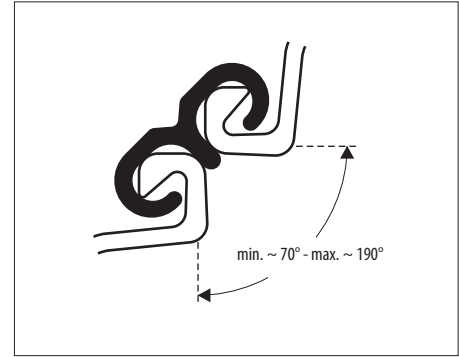
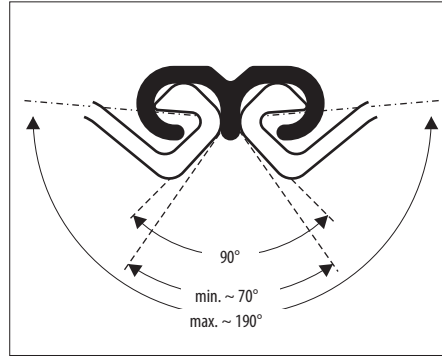
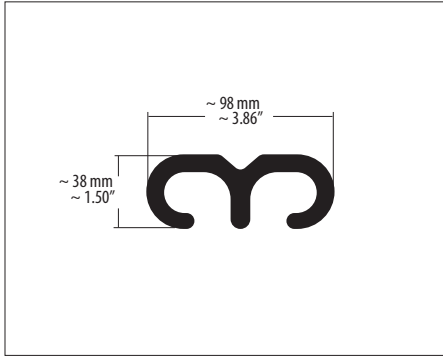
El perfil Omega 12 se caracteriza por presentar amplias posibilidades de ajuste en el área de cerramiento.

Propiedades

Calidad de acero:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~12,1 kg/m

Omega

for Larsen Z / Larsen U





VT

**For Omega corners (~70° to ~190°),
T-corners, 90° corners**
with Larssen U/Z/AZ sheet piles

Installation

1. Please review the proper interlocking examples that are listed.
2. Thread the connector into the interlock while the sheet pile is out of the ground.
3. Adjust the connector to the appropriate position.
4. Tack or spot-weld the connector in place. Typically, a ~250mm (~10") weld, attaching the connector to the sheet pile to the top is sufficient.
5. Drive/extract the sheet pile (with the connector attached) as you would normally. When working with double piles, a single pile should be inserted between the double piles on one side of the swivel range.

Properties

Steelgrade:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Weight:	~11.87 lb / ft



VT

**Raccord en T,
raccord d'angle (90°),
raccord Omega,
approprié au fonçage individuel**
Pour Larssen U, AZ, Hoesch avec serrure Larssen

Domaines d'emploi

1. Raccordement de trois rideaux de palplanches sans soudure (même bâtiment à refends)
2. Comme raccord d'angle comparable à V 20 (plage de pivotement ~ 45°)
3. Utilisation comme raccord Omega
4. Aptitude au fonçage circulaire avec palplanche simple

Pour utiliser des palplanches doubles, il faut insérer une palplanche simple d'un côté des zones de pivotement.

Caractéristiques

Nuances d'acier:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Poids:	~17,7 kg/m



VT

**T-Verbindung,
90° Eckverbindung,
Omega-Eckverbindung,
für Einzelrammung geeignet**
Für Larssen U, AZ, Hoesch mit Larssen-Schloss

Einsatzgebiet

1. Erstellen und verbinden von drei Spundwänden ohne Schweißarbeit (auch Schottbauweise)
2. Als Eckverbindung ähnlich V 20 (Schwenkbereich ~ 45°)
3. Einsatz als Omega-Eckverbindung
4. Für Kreisrammungen mit Einzelbohlen

Beim Arbeiten mit Doppelbohlen ist auf einer Seite der Schwenkbereiche eine Einzelbohle zwischenzuschalten.

**Eigenschaften**

Stahlgüte:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Gewicht:	~17,7 kg/m



VT

**Connessione a T,
connessione per angolo a 90°
connessione per angolo Omega,
adatta per infissione di elementi singoli**
Per Larssen U, AZ, Hoesch con gancio Larssen

Campo di applicazione

1. Connessione di tre palancole senza operazioni di saldatura
2. angolare simile al profilo V 20
3. connessione per angolo Omega 12 con un angolo di giro da circa 70° a 190°
4. Per infissioni circolari con palancole singole

Lavorando con palancole doppie deve essere inserita una palancole singola su uno dei due lati.

Caratteristiche

Qualità dell'acciaio:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~17,7 kg/m



VT

**Unión en T,
unión angular de 90°,
unión angular Omega,
adecuada para hincado individual**
Para Larssen U, AZ, Hoesch con cerramiento Larssen

Ámbito de aplicaciones

1. Formación y unión de tres tablestacas sin trabajo de soldadura (también en estructura de mamparos)
2. Como unión angular parecida a V 20 (área de giro ~ 45°)
3. Uso como unión angular Omega
4. Para hincado circular con pilote individual

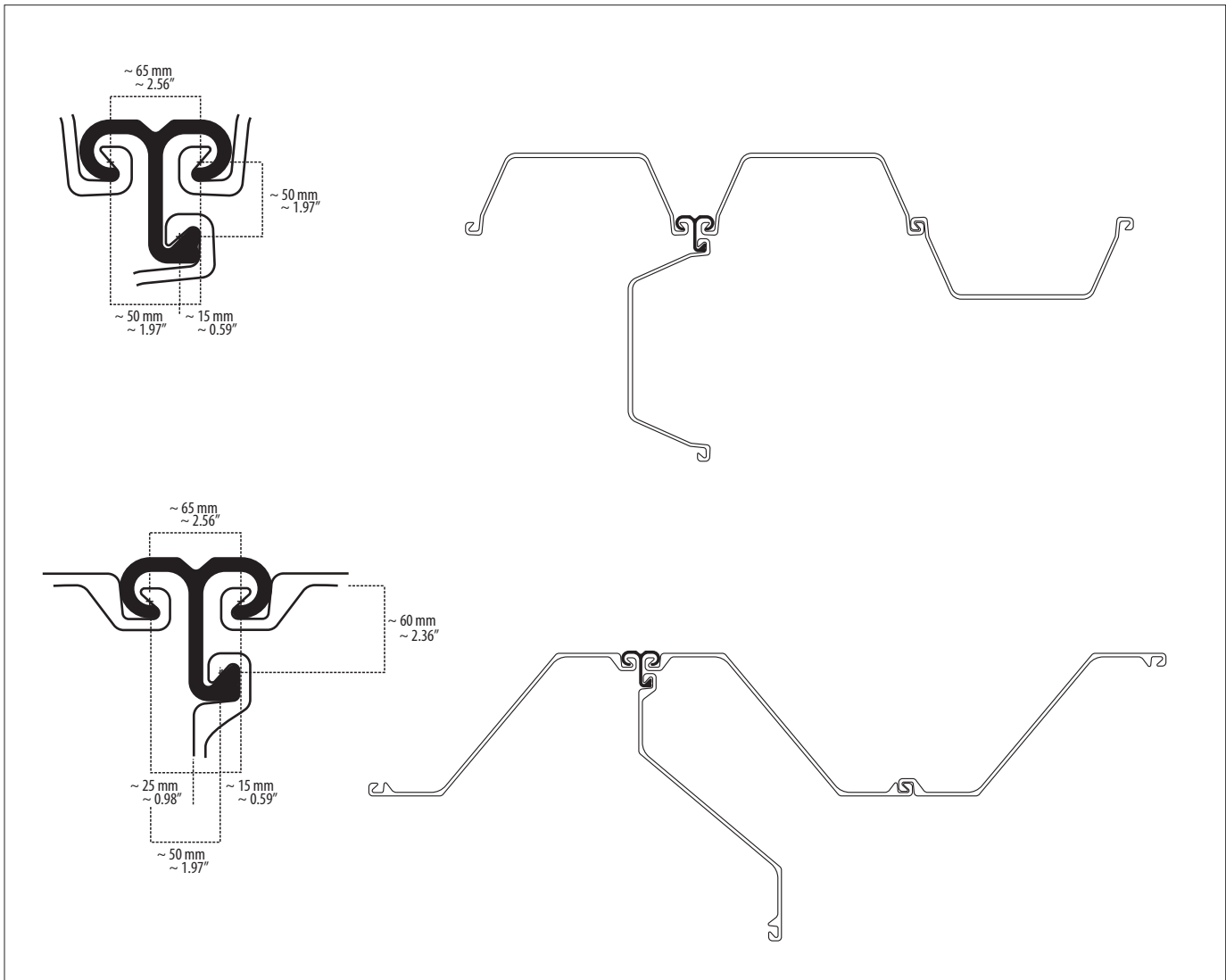
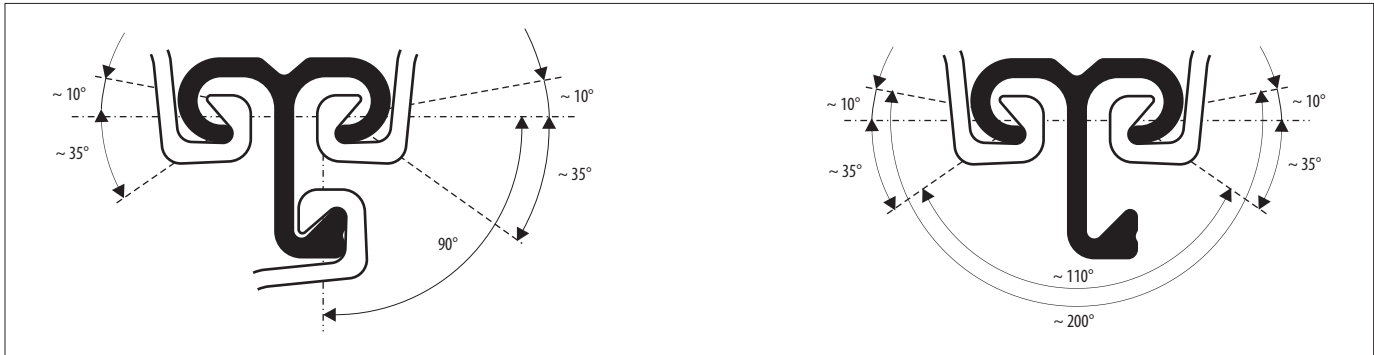
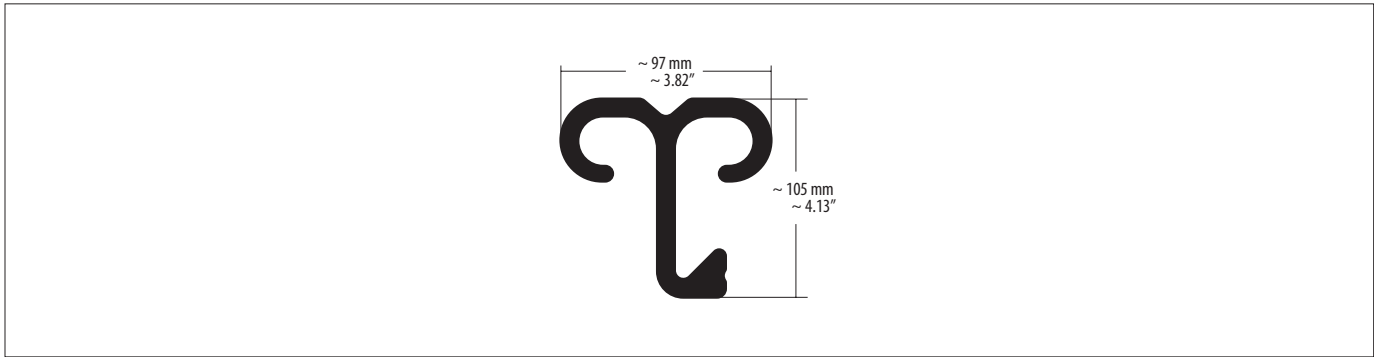
Si se trabaja con pilotes dobles se deberá intercalar un pilote individual en un lado de las áreas de giro.

Propiedades

Calidad de acero:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~17,7 kg/m



VT





VTS

For T-corners, 90° corners with Larsen U/Z/AZ sheet piles

Installation

1. Please review the proper interlocking examples that are listed.
2. Thread the connector into the interlock while the sheet pile is out of the ground.
3. Adjust the connector to the appropriate position.
4. Tack or spot-weld the connector in place. Typically, a ~250mm (~10") weld, attaching the connector to the sheet pile to the top is sufficient.
5. Drive/extract the sheet pile (with the connector attached) as you would normally.

Properties

Steelgrade:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Weight:	~12.34 lb / ft



VTS

Raccord en T, raccord d'angle (90°), raccord Omega, approprié au fonçage individuel

Pour Larsen U, AZ, Hoesch avec serrure Larsen

Domaines d'emploi

1. Raccordement de trois rideaux de palplanches sans soudure (même bâtiment à refends)
2. Comme raccord comparable à V 20 (plage de pivotement ~ 45°)
3. Changements de direction dans un rideau continu (~ 55°)
4. Aptitude au fonçage circulaire avec rideaux de palplanches simples et doubles

Tous les rideaux de palplanches partant du raccord peuvent être réalisés en palplanches doubles (forme en S).

Caractéristiques

Nuances d'acier:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Poids:	~18,4 kg/m



VTS

T-Verbindung, 90° Eckverbindung, Kreisrammung, geeignet für Einzelrammung

Für Larsen U, AZ, Hoesch mit Larsen-Schloss

Einsatzgebiet

1. Erstellen und verbinden von drei Spundwänden ohne Schweißarbeit (auch Schottbauweise)
2. Als Eckverbindung ähnlich V 20 (Schwenkbereich ~ 45°)
3. Richtungsänderungen in einer fortlaufenden Wand (~ 55°)
4. Kreisrammung mit Einzel- und Doppelbohlen
Alle von dem Profil ausgehenden Spundwände können in Doppelbohlen (S-Form) hergestellt werden.



Eigenschaften

Stahlgüte:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Gewicht:	~18,4 kg/m



VTS

Connessione a T, Connessione per angolo a 90°, Infissione circolare, adatta per infissione di elementi singoli

Per Larsen U, AZ, Hoesch con gancio Larsen

Campo di applicazione

1. Connessione di tre palancole senza saldatura (anche struttura a paratie)
2. Angolare, simile a V 20 (range ~ 45°)
3. Cambi di direzione in un palancolato continuo (~ 55°)
4. Infissione circolare con palancole singole e doppie

A questo profilo si possono agganciare palancole doppie a forma S.

Caratteristiche

Qualità dell'acciaio:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Peso:	~18,4 kg/m



VTS

Unión en T, unión angular de 90°, hincado circular, adecuada para hincado individual

Para Larsen U, AZ, Hoesch con cerramiento Larsen

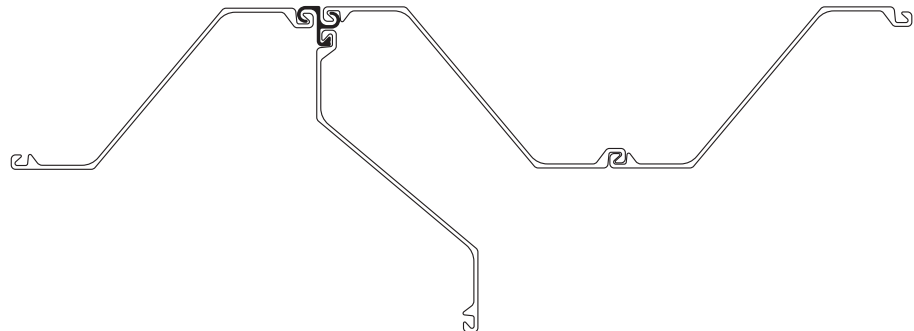
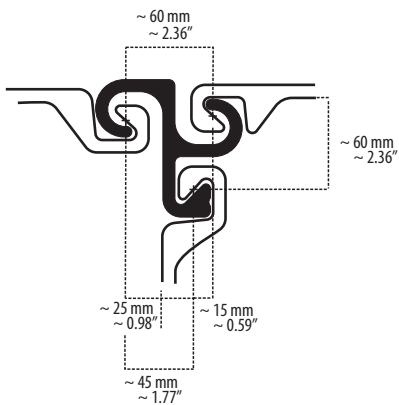
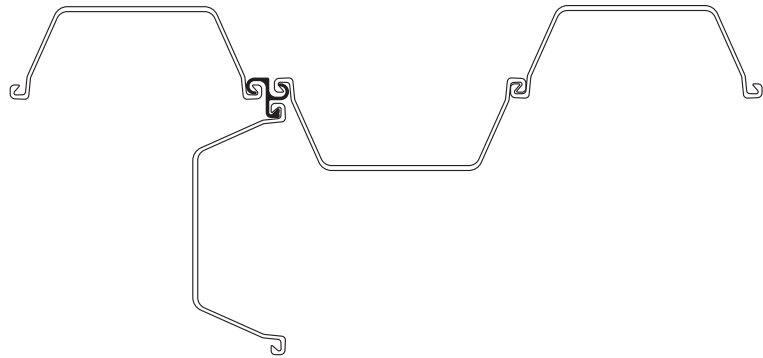
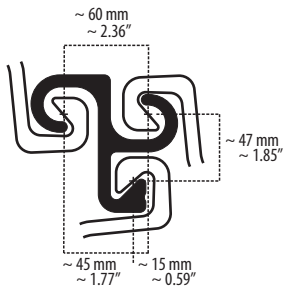
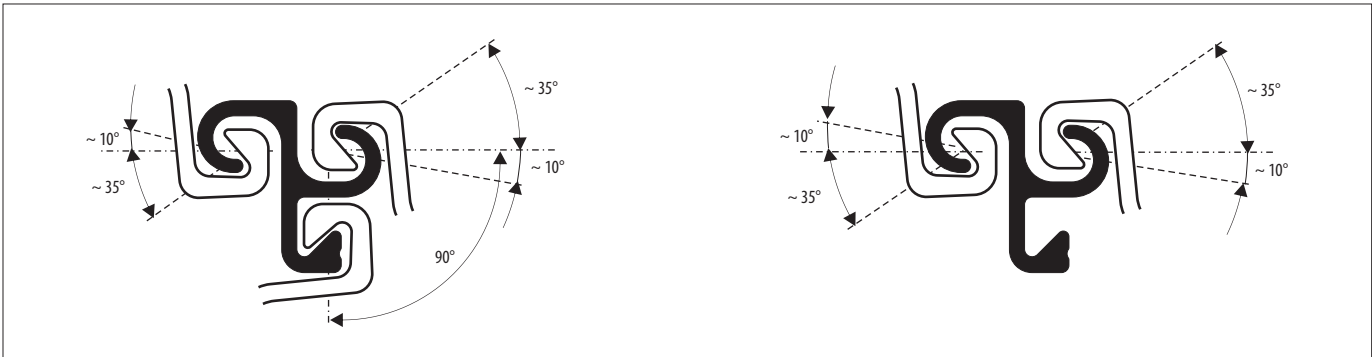
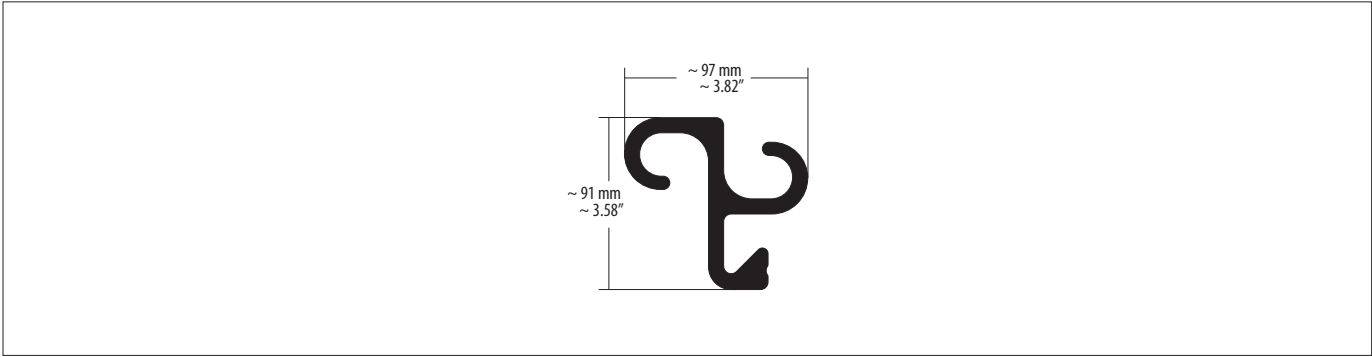
Ámbito de aplicaciones

1. Formación y unión de tres tablestacas sin trabajo de soldadura (también en estructura de mamparos)
2. Como unión angular parecida a V 20 (área de giro ~ 45°)
3. Modificaciones de dirección en una pantalla continua (~ 55°)
4. Hincado circular con pilotes simples y dobles

Todas las tablestacas que salen del perfil pueden fabricarse en pilotes dobles (forma S)

Propiedades

Calidad de acero:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Peso:	~18,4 kg/m





V 22

for Larssen Z / Larssen U



V 22

For combined walls (pipes)
with Larssen U/Z/AZ sheet piles

Installation

1. The pipes are delivered with the connectors already attached.
2. First, install the king piles (pipes) as you would in any combined sheet pile wall application.
3. Grasp the sheet piling and thread between the already installed pipe piles.
4. Increase flexibility in the middle interlocks of the sheet piles, combined with the swing of the connectors, enable easier threading of the intermediate sheet piling.
5. All welding seams are a minimum ~6mm (~0.25").
6. Both sides have a continuous minimum tip and toe welding of ~500mm (~20").
7. Both sides are tack welded in the free length between tip and toe welding with 200mm/m (8"/yd). The distance from seam to seam is ~800mm (~31.5") or less.
8. In salt water, the water side is continuously welded on the whole pile length. Follow the instructions above for the reverse side of the pile, if it is not in contact with salt water.

Properties

Steelgrade:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Weight:	~5.64 lb / ft



V 22

Raccord variable à souder

Pour Larssen U, AZ, Hoesch avec serrure Larssen

Domaines d'emploi

1. Raccordement et changement de direction avec une plage de pivotement de ~ 65° à l'aide de l'angle à souder
2. Approprié au fonçage circulaire
3. Rideaux de palplanches mixtes:
Tube + Larssen (profilé en U et en Z)

Caractéristiques

Nuances d'acier:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Poids:	~8,4 kg/m



V 22

Vario-Anschweißprofil

Für Larssen U, AZ, Hoesch mit Larssen-Schloss

Einsatzgebiet

1. Erstellen von Eckverbindungen und Abzweigungen mit Schwenkbereich ~ 65° mittels AnschweißBeck
2. Geeignet für Kreisrammungen
3. Erstellen von Kombi-Spundwänden:
Rohr + Larssen (U- und Z-Profil)

**Eigenschaften**

Stahlgüte:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Gewicht:	~8,4 kg/m



V 22

Profilo Vario de saldare

Per Larssen U, AZ, Hoesch con gancio Larssen

Campo di applicazione

1. Realizzazione di angoli e diramazioni con range di ~ 65°
2. Adatto per infissioni circolari
3. Realizzazione di palancole combinati:
tubo + Larssen (profili a U e a Z)

Caratteristiche

Qualità dell'acciaio:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~8,4 kg/m



V 22

Perfil de soldadura Vario

Para Larssen U, AZ, Hoesch con cerramiento Larssen

Ámbito de aplicaciones

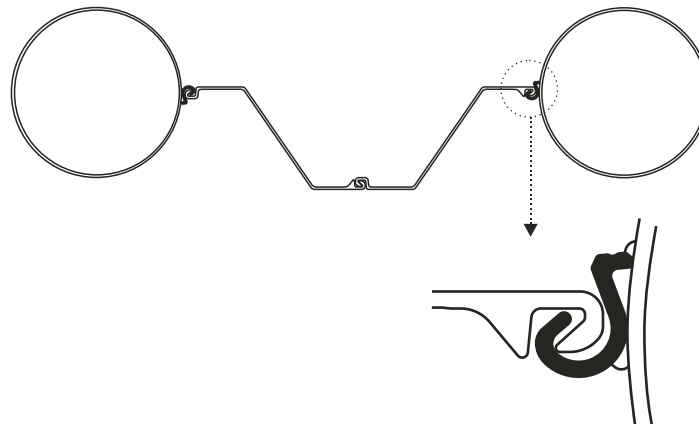
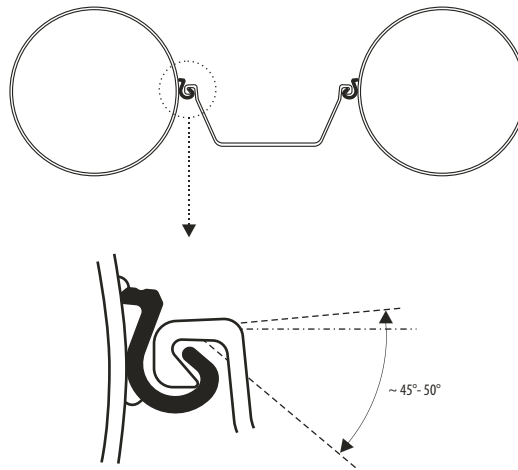
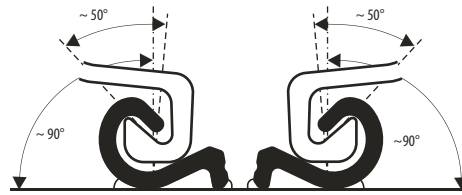
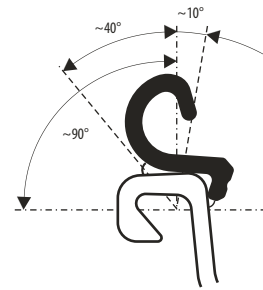
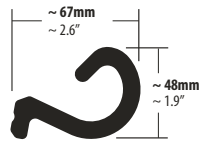
1. Formación de uniones angulares y bifurcaciones con área de giro ~ 65° por medio de codo soldado
2. Adecuada para hincado circular
3. Formación de tablestacas combinadas:
Tubo + Larssen (perfiles en U y Z)

Propiedades

Calidad de acero:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~8,4 kg/m



V 22



**LBM / LBF****For AZ/Larssen to PZ/PZC (ball & socket) transitions****Installation**

1. Please review the proper interlocking examples that are listed.
2. Thread the connector into the interlock while the sheet pile is out of the ground.
3. Adjust the connector to the appropriate position.
4. Tack or spot-weld the connector in place. Typically, a ~250mm (~10") weld, attaching the connector to the sheet pile to the top is sufficient.
5. Drive/extract the sheet pile (with the connector attached) as you would normally.

Properties

Steelgrade:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Weight LBM:	~7.71 lb / ft
Weight LBF:	~8.78 lb / ft

**LBM / LBF****Raccord de transition**

Pour Larssen U, AZ, Hoesch avec serrure Larssen

Domaines d'emploi

1. Pour raccorder des palplanches PZC (Ball + Socket) aux palplanches en U ou en Z type Larssen
2. Pour raccorder des palplanches en U ou Z Larssen aux palplanches PZC (Ball + Socket)

Caractéristiques

Nuances d'acier:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Poids LBM:	~11,5 kg/m
Poids LBF:	~13,1 kg/m

**LBM / LBF****Übergangsprofile**

Für Larssen U, AZ, Hoesch mit Larssen-Schloss

Einsatzgebiet

1. Übergangsprofile von PZC-Bohlen (Ball + Socket) zu U- oder Larssen-Z-Bohlen
2. Übergangsprofile von U- oder Larssen-Z-Bohlen zu PZC-Bohlen (Ball + Socket)

**Eigenschaften**

Stahlgüte:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Gewicht LBM:	~11,5 kg/m
Gewicht LBF:	~13,1 kg/m

**LBM / LBF****Profilati di raccordo**

Per Larssen U, AZ, Hoesch con gancio Larssen

Campo di applicazione

1. Profilati di raccordo da palancole PZC (Ball and Socket) a palancole a U o palancole a Z Larssen
2. Profilati di raccordo da palancole a U o palancole a Z Larssen a palancole PZC (Ball and Socket)

Caratteristiche

Qualità dell'acciaio:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Peso LBM:	~11,5 kg/m
Peso LBF:	~13,1 kg/m

**LBM / LBF****Perfiles de transición**

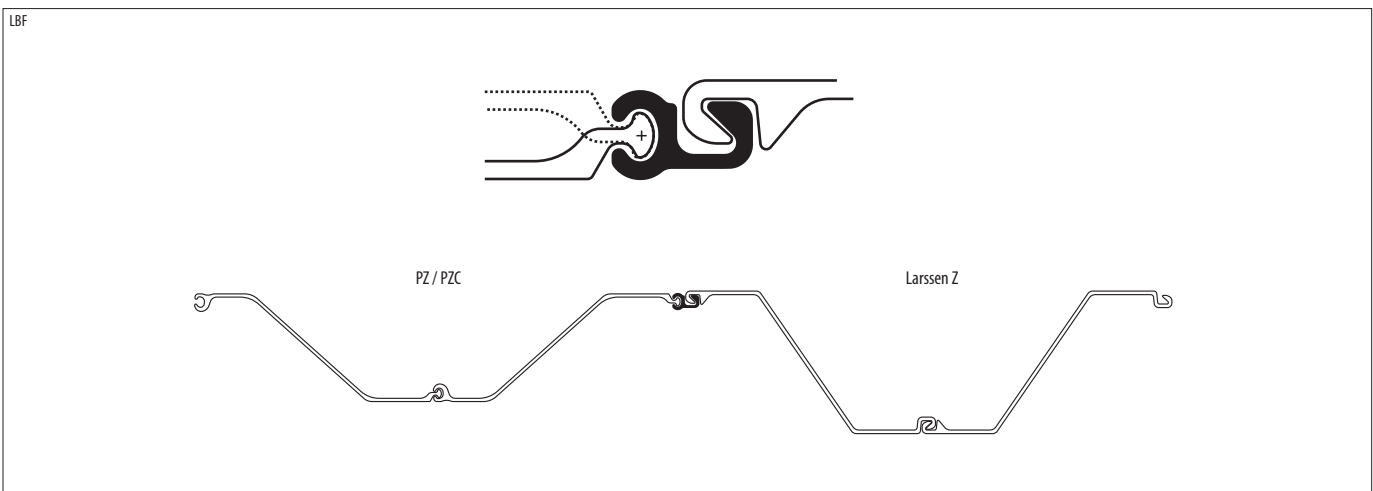
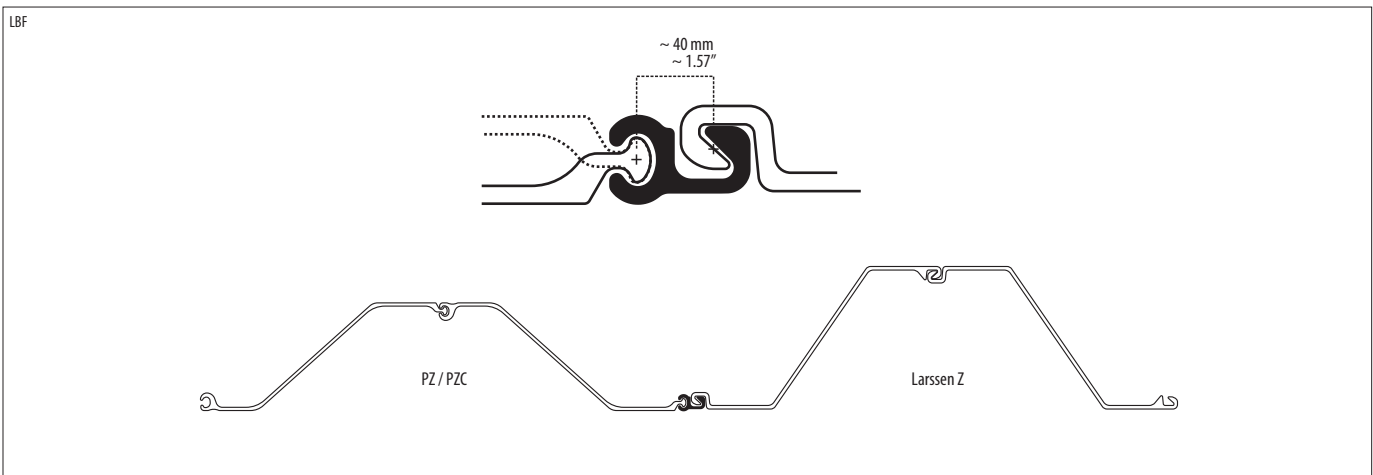
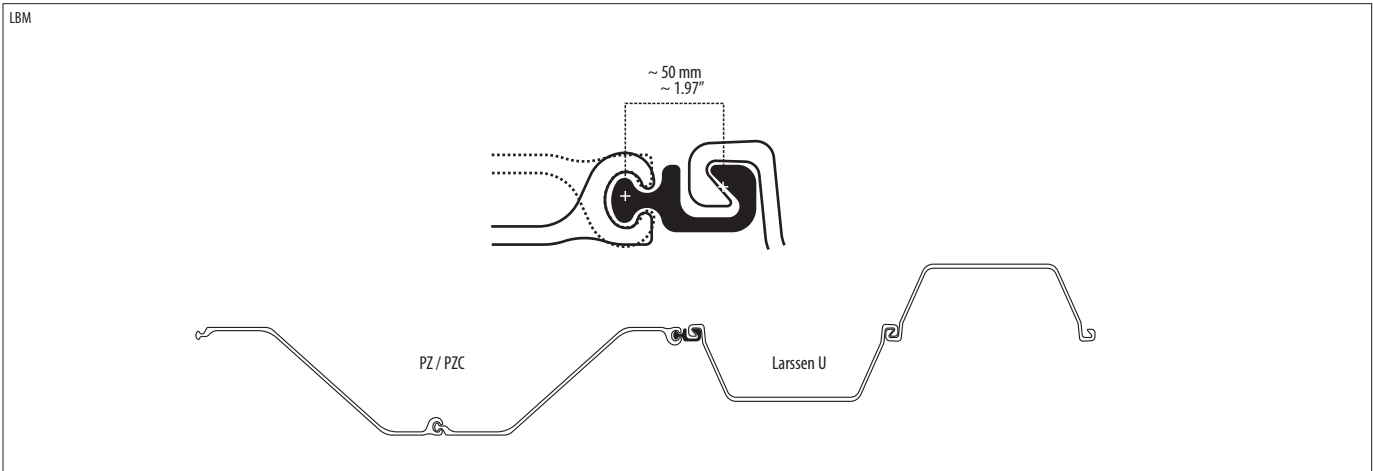
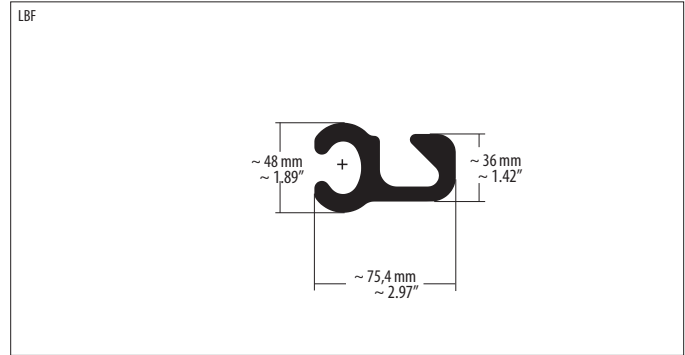
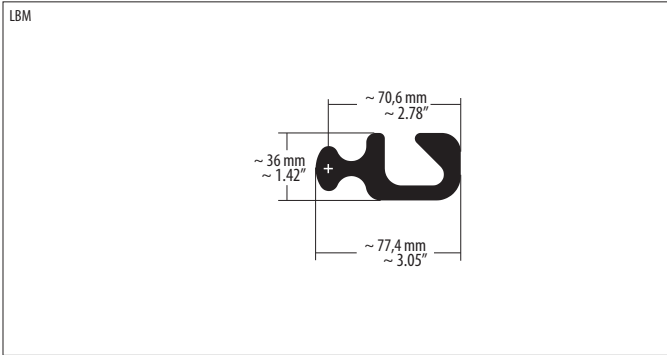
Para Larssen U, AZ, Hoesch con cerramiento Larssen

Ámbito de aplicaciones

1. Perfiles de transición de pilotes PZC (Ball + Socket) a pilotes en U y en Z Larssen
2. Perfiles de transición de pilotes en U o Z Larssen a pilotes PZC (Ball + Socket)

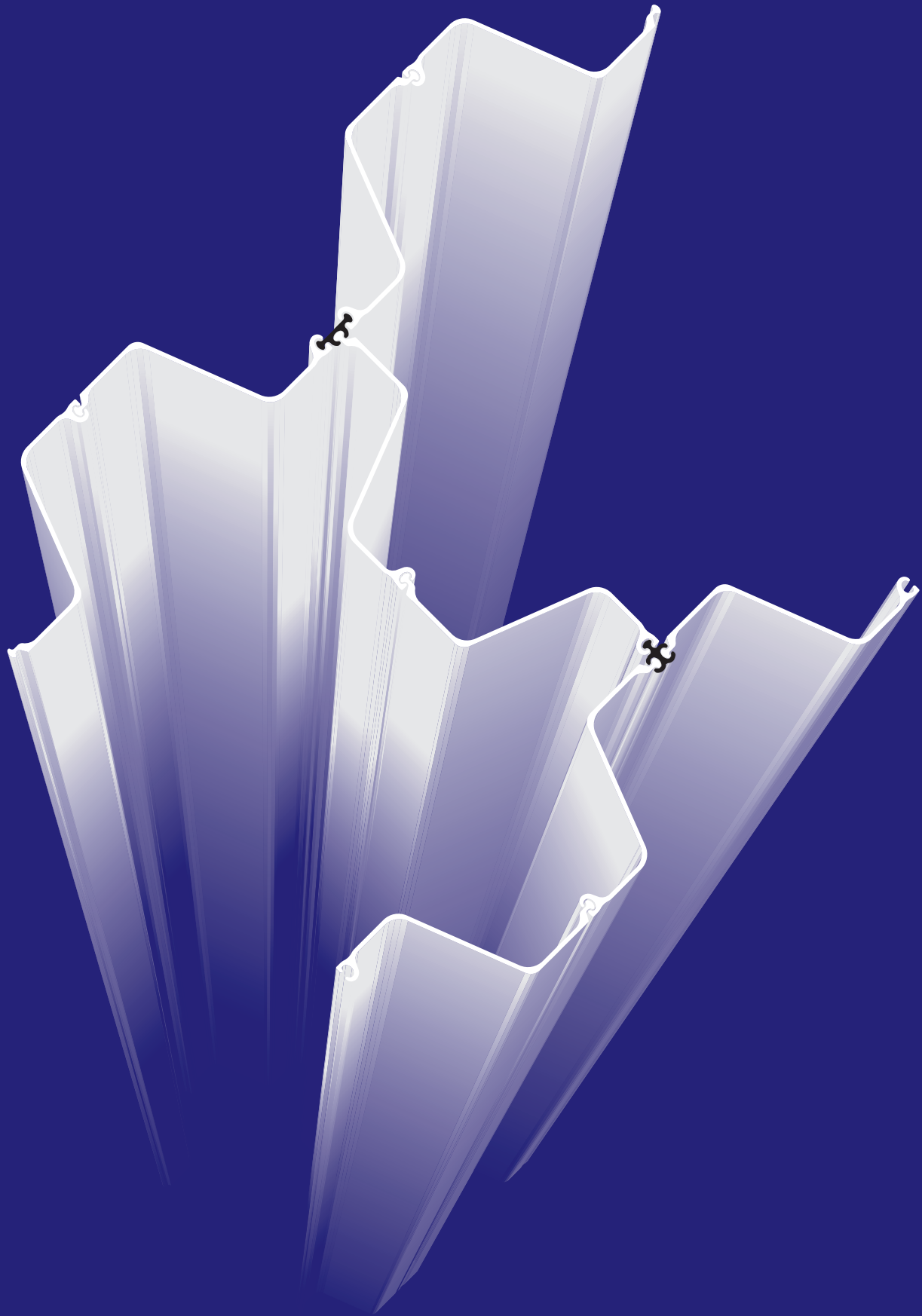
Propiedades

Calidad de acero:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Peso LBM:	~11,5 kg/m
Peso LBF:	~13,1 kg/m





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Overview

Ball & Socket
(For PZ and PZC)

Übersicht

Ball & Socket
(Für PZ und PZC)

Listado

Ball & Socket
(Para PZ y PZC)

Aperçu

Ball & Socket
(Pour PZ et PZC)

Indice

maschio e femmina
(Per PZ e PZC)

Corner & Junction Piles

PZ 90 	For 90° corners (+/- 40°)	90° Eckverbindung	Unión angular de 90°	Raccord à 90°	Connessione per angolo a 90°		23
Joker 	For T-corners (+/- 40°), 90° corners (+/- 40°)	T-Verbindung 90° Eckverbindung	Unión en T Unión angular de 90°	Raccord en T, raccord d'angle (90°)	Connessione a T Connessione per angolo a 90°		25
Bullhead 	For T-corners (+/- 40°), 90° corners (+/- 40°)	T-Verbindung 90° Eckverbindung	Unión en T Unión angular de 90°	Raccord en T, raccord d'angle (90°)	Connessione a T Connessione per angolo a 90°		27

Combined Sheet Piles

PBS-M PBS-F 	For combined walls with Peiner-type beams	Kombiwandprofile zum Verbinden von Keulenträgern mit PZ/PZC- Profilen	Perfiles de pantalla combinada para unir portamazas con perfiles PZ/PZC	Raccord pour rideaux mixtes (pour raccorder des poutres de soutien aux palplanches PZ/PZC)	Profilo parete combinata per collegare travi a doppia T con profili PZ/PZC		29
WOM WOF 	For combined walls with pipes	Anschweißprofile zum Verbinden von Rohren mit PZ/PZC-Profilen sowie zum Erstellen von Ecken und Abzweigungen	Perfiles de soldadura para unir tubos con perfiles PZ/PZC, así como para formar esquinas y bifurcaciones	Raccord à souder (pour raccorder des tubes aux palplanches PZ/PZC et pour réaliser des angles ou un changement de direction)	Profili saldati per collegare tubi con profili PZ/PZC e per creare angoli e diramazioni		31

Transition Piles

LBM LBF 	For PZ/PZC to AZ/Larsen transitions	Übergangsprofile	Perfiles de transición	Raccord de transition	Profili di raccordo		19
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**PZ 90**

For 90° Corners (+/- 40°) with PZ/PZC (ball & socket) sheet piles

Installation

1. Please review the proper interlocking examples that are listed.
2. Thread the connector into the interlock while the sheet pile is out of the ground.
3. Adjust the connector to the appropriate position.
4. Tack or spot-weld the connector in place. Typically, a ~250mm (~10") weld, attaching the connector to the sheet pile to the top is sufficient.
5. Drive/extract the sheet pile (with the connector attached) as you would normally.

Properties

Steel grade:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Weight:	~ 7.21 / ~ 7.51 lb / ft

**PZ 90****Raccord d'angle (90°)**

Pour PZ- et PZC (Ball + Socket)

Domaines d'emploi

Raccordement permettant un angle de 90° (variation possible de +/- 20°)

Caractéristiques

Nuances d'acier:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Poids:	~10,9 / ~11,2 kg/m

**PZ 90****90° Eckverbindung**

Für PZ und PZC (Ball and Socket)

Einsatzgebiet

90° Eckverbindungen

**Eigenschaften**

Stahlgüten:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Gewicht:	~10,9 / ~11,2 kg/m

**PZ 90****Connessione per angolo a 90°**

Per PZ e PZC (maschio e femmina)

Campo di applicazione

Connessioni per angolo a 90°

Caratteristiche

Qualità dell'acciaio:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Peso:	~10,9 / ~11,2 kg/m

**PZ 90****Unión angular de 90°**

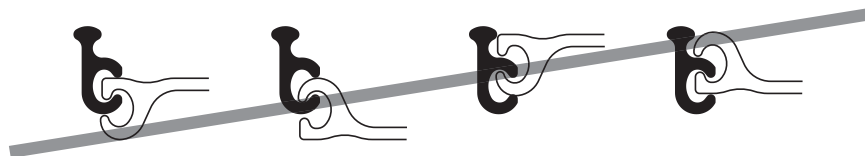
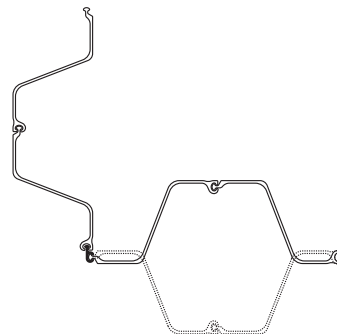
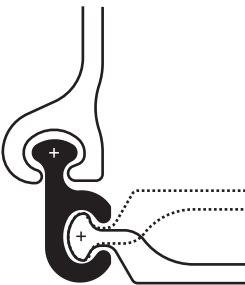
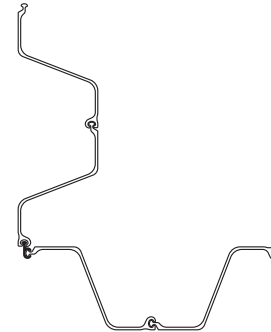
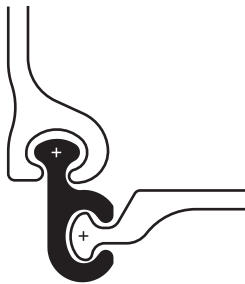
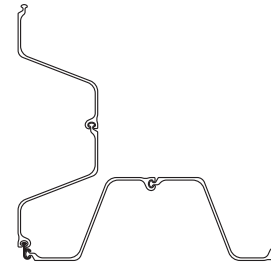
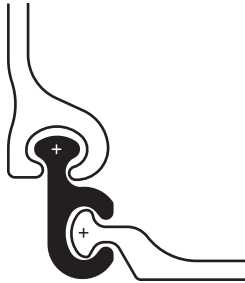
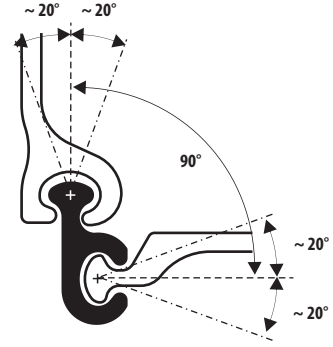
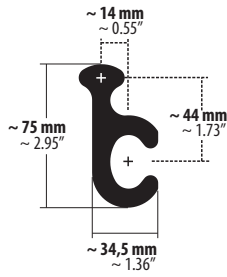
Para PZ y PZC (Ball and Socket)

Ámbito de aplicaciones

Uniones angulares de 90°

Propiedades

Calidades de acero:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Peso:	~10,9 / ~11,2 kg/m





Joker

**For T-corners,
90° corners (+/- 40°)**
with PZ/PZC (ball & socket) sheet piles

Installation

1. Please review the proper interlocking examples that are listed.
2. Thread the connector into the interlock while the sheet pile is out of the ground.
3. Adjust the connector to the appropriate position.
4. Tack or spot-weld the connector in place. Typically, a ~250mm (~10") weld, attaching the connector to the sheet pile to the top is sufficient.
5. Drive/extract the sheet pile (with the connector attached) as you would normally.

Properties

Steel grade:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Weight:	~10.86 lb / ft



Joker

**Raccord en T,
raccord d'angle (90°)**
Pour PZ et PZC (Ball + Socket)

Domaines d'emploi

Raccordement de trois palplanches

Caractéristiques

Nuances d'acier:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Poids:	~16,2 kg/m



Joker

**T-Verbindung,
90° Eckverbindung**
Für PZ und PZC (Ball and Socket)

Einsatzgebiet

Verbinden von drei Spundwänden



Eigenschaften

Stahlgüten:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Gewicht:	~16,2 kg/m



Joker

**Connessione a T,
connessione per angolo a 90°**
Per PZ e PZC (maschio e femmina)

Campo di applicazione

Connessione di tre palancole

Caratteristiche

Qualità dell'acciaio:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Peso:	~16,2 kg/m



Joker

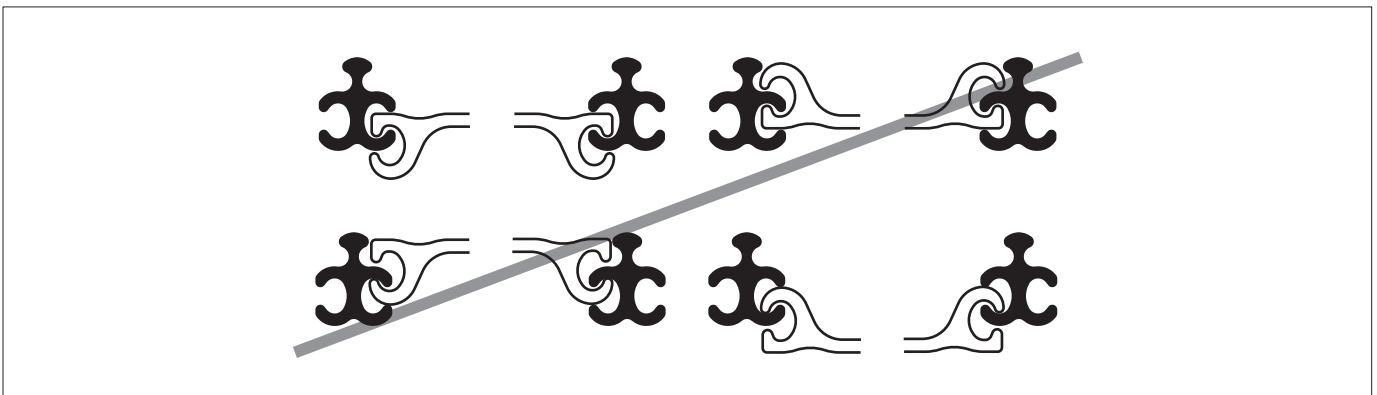
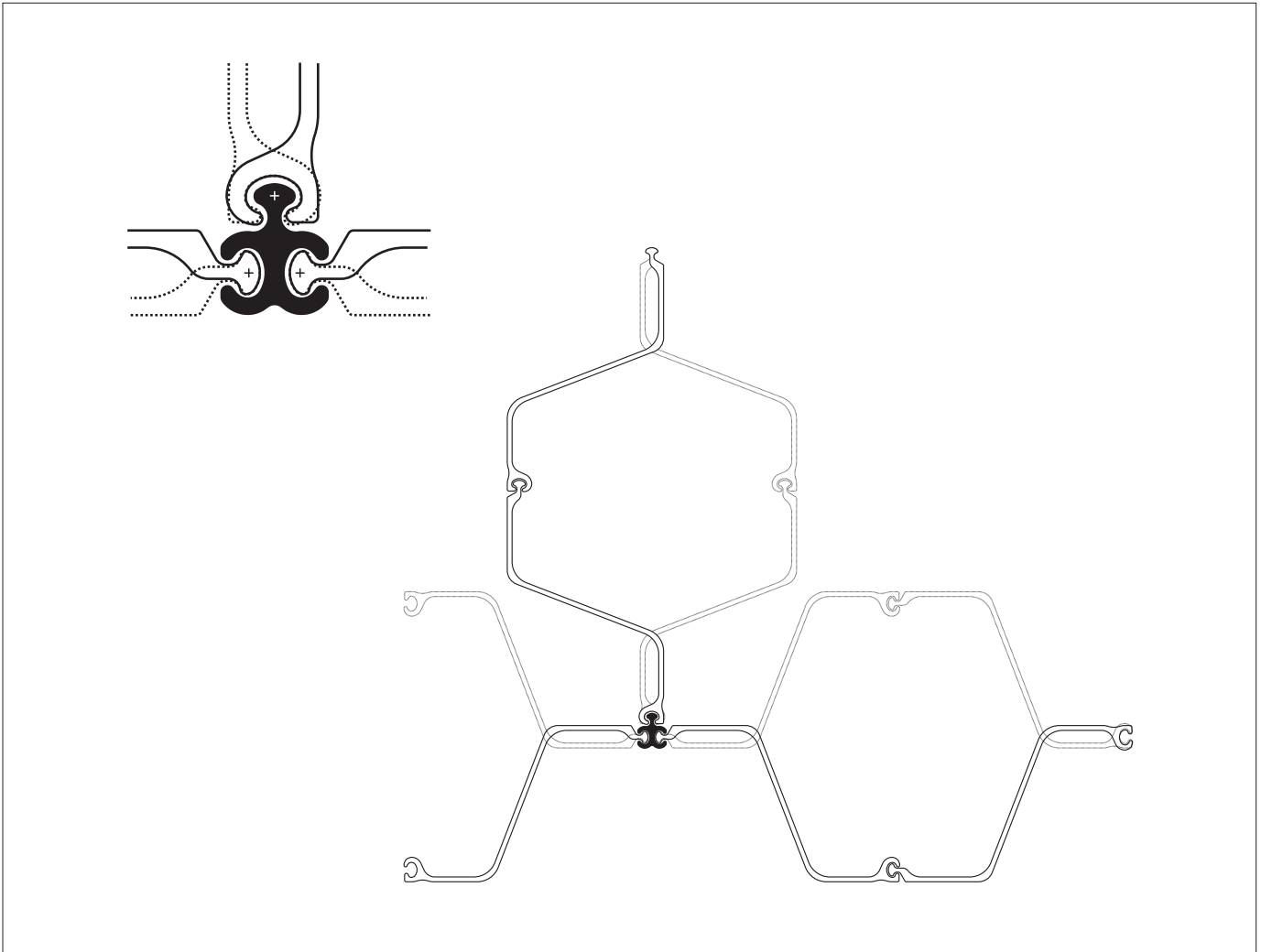
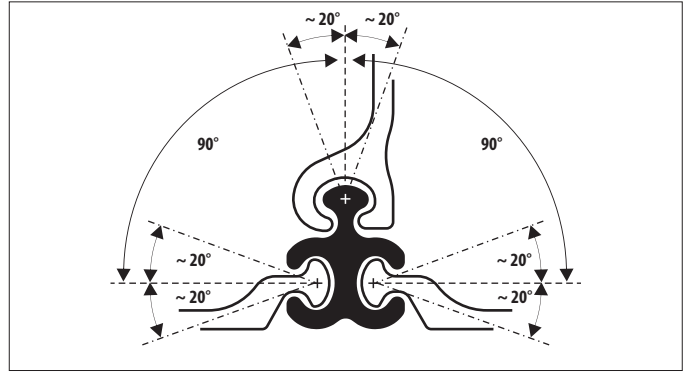
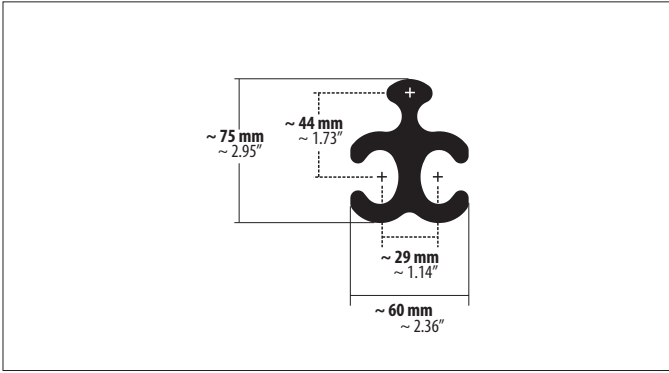
**Unión en T,
unión angular de 90°**
Para PZ y PZC (Ball and Socket)

Ámbito de aplicaciones

Unión de tres tablestacas

Propiedades

Calidades de acero:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Peso:	~16,2 kg/m





Bullhead



Bullhead

For T-corners,

90° corners (+/- 40°)

with PZ/PZC (ball & socket) sheet piles

Installation

1. Please review the proper interlocking examples that are listed.
2. Thread the connector into the interlock while the sheet pile is out of the ground.
3. Adjust the connector to the appropriate position.
4. Tack or spot-weld the connector in place. Typically, a ~250mm (~10") weld, attaching the connector to the sheet pile to the top is sufficient.
5. Drive/extract the sheet pile (with the connector attached) as you would normally.

Properties

Steel grade:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Weight:	~9.72 lb / ft

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Bullhead

Raccord en T,

raccord d'angle (90°)

Pour PZ et PZC (Ball + Socket)

Domaines d'emploi

Raccordement de trois palplanches

Caractéristiques

Nuances d'acier:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Poids:	~14,5 kg/m



Bullhead

T-Verbindung,

90° Eckverbindung

Für PZ und PZC (Ball and Socket)

Einsatzgebiet

Verbinden von drei Spundwänden



Eigenschaften

Stahlgüten:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Gewicht:	~14,5 kg/m



Bullhead

Connessione a T,

connessione per angolo a 90°

Per PZ e PZC (maschio e femmina)

Campo di applicazione

Connessione di tre palancole

Caratteristiche

Qualità dell'acciaio:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~14,5 kg/m



Bullhead

Unión en T,

unión angular de 90°

Para PZ y PZC (Ball and Socket)

Ámbito de aplicaciones

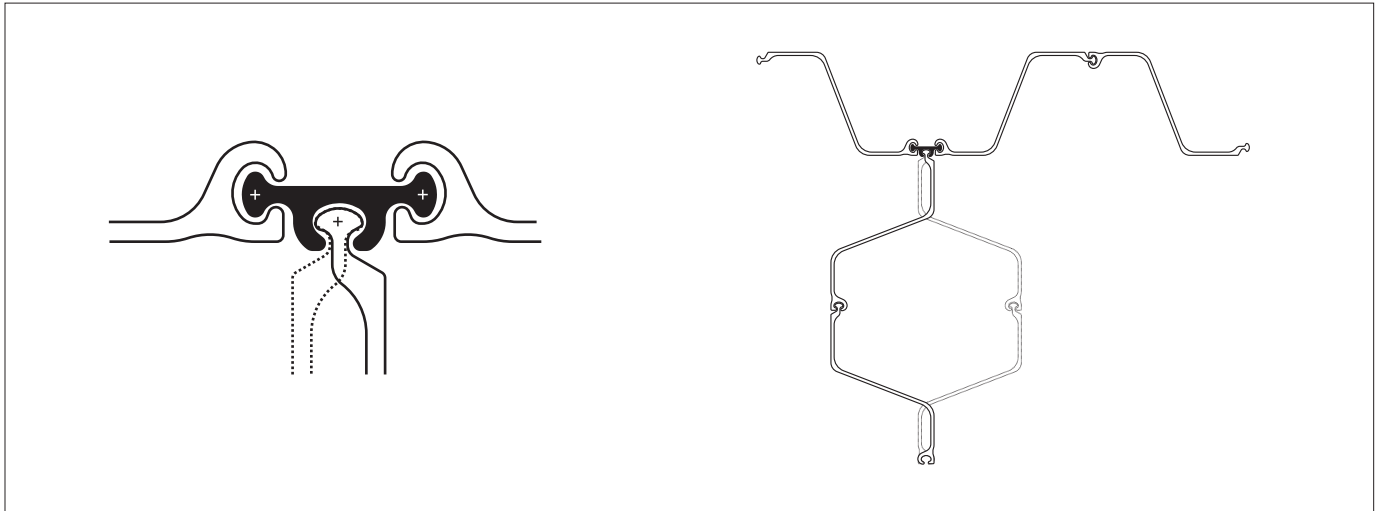
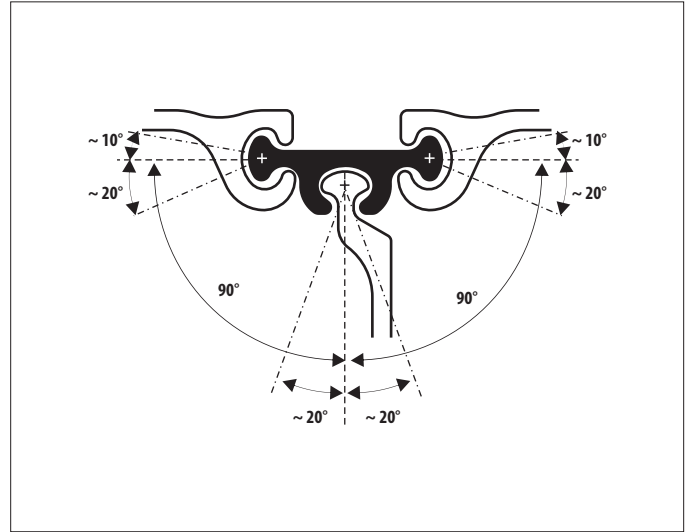
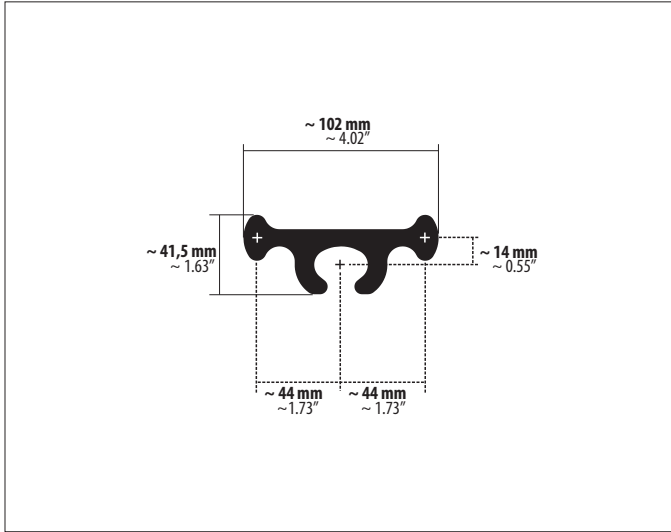
Unión de tres tablestacas

Propiedades

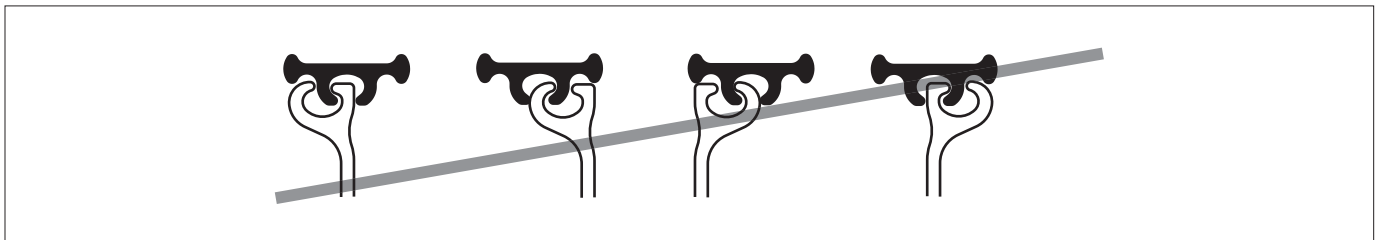
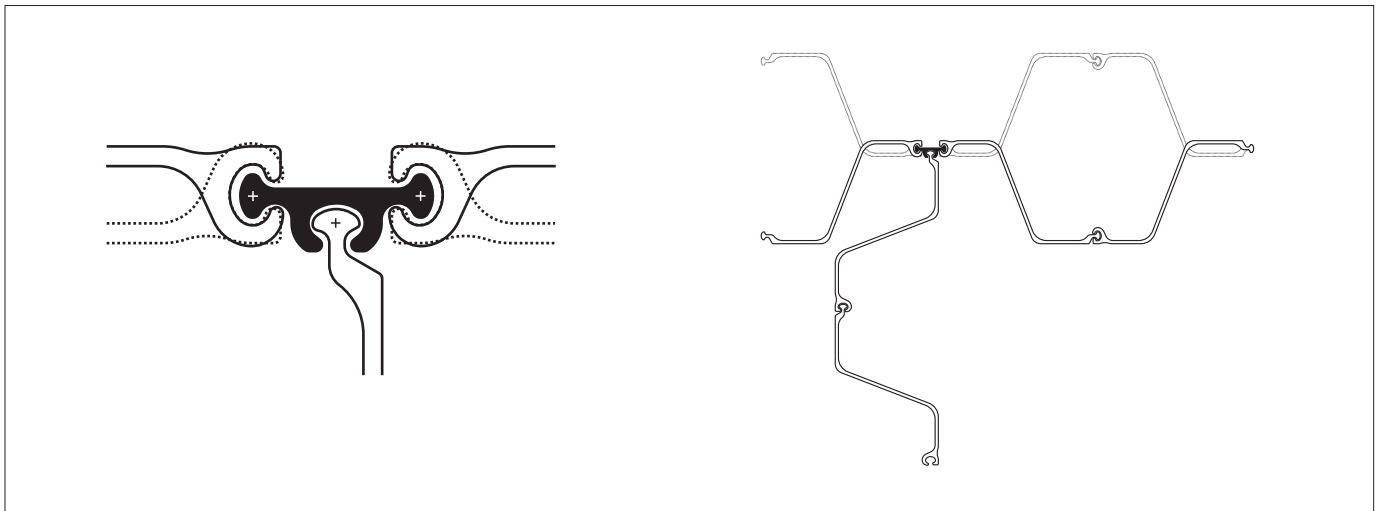
Calidades de acero:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~14,5 kg/m

Bullhead

for Ball & Socket (PZ / PZC)



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**PBS-M / PBS-F**

For combined walls (Peiner-type beams) with PZ/PZC (ball & socket) sheet piles

Installation

1. Install the Peiner Beams first.
2. Lay the sheet piling horizontally and thread the connector into the interlock of the sheet piling, adjusting the connector to the appropriate position (please review the proper interlocking examples, as shown to the right). This can be done at the mill, at a distributor's yard, or on the job site (go here: www.PilePro.com/thread).
3. Tack or spot-weld the connector in place. Typically, a ~250mm (~10") weld, attaching the connector to the sheet pile to the top is sufficient.
4. Grasp the sheet pile (with connectors already attached) and thread between the already installed Peiner type beams.
5. Lower/drive the sheet piling to the level of the Peiner type beam.

Properties

Steel grade:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Weight PBS-M:	~ 9 lb / ft
Weight PBS-F:	~10.66 lb / ft

**PBS-M / PBS-F****Raccord pour rideaux mixtes**

Pour PZ et PZC (Ball + Socket)

Domaines d'emploi

Rideaux mixtes avec des poutres de soutien et des profilés PZ/PZC

Caractéristiques

Nuances d'acier:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Poids PBS-M:	~13,4 kg/m
Poids PBS-F:	~15,9 kg/m

**PBS-M / PBS-F****Kombiwandprofile**

Für PZ und PZC (Ball and Socket)

Einsatzgebiet

Erstellen von Kombiwänden mit Keulenträgern und PZ/PZC-Profilen

**Eigenschaften**

Stahlgüten:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Gewicht PBS-M:	~13,4 kg/m
Gewicht PBS-F:	~15,9 kg/m

**PBS-M / PBS-F****Profilo parete combinata**

Per PZ e PZC (maschio e femmina)

Campo di applicazione

Realizzazione di pareti combinate con travi a doppia T e profili PZ/PZC

Caratteristiche

Qualità dell'acciaio:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso PBS-M:	~13,4 kg/m
Peso PBS-F:	~15,9 kg/m

**PBS-M / PBS-F****Perfiles de pantalla combinada**

Para PZ y PZC (Ball and Socket)

Ámbito de aplicaciones

Formación de pantallas combinadas con portamazas y perfiles PZ/PZC

Propiedades

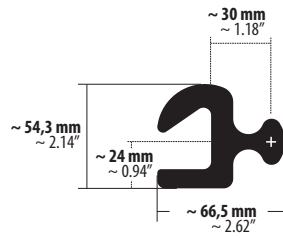
Calidades de acero:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso PBS-M:	~13,4 kg/m
Peso PBS-F:	~15,9 kg/m

PBS-M / PBS-F

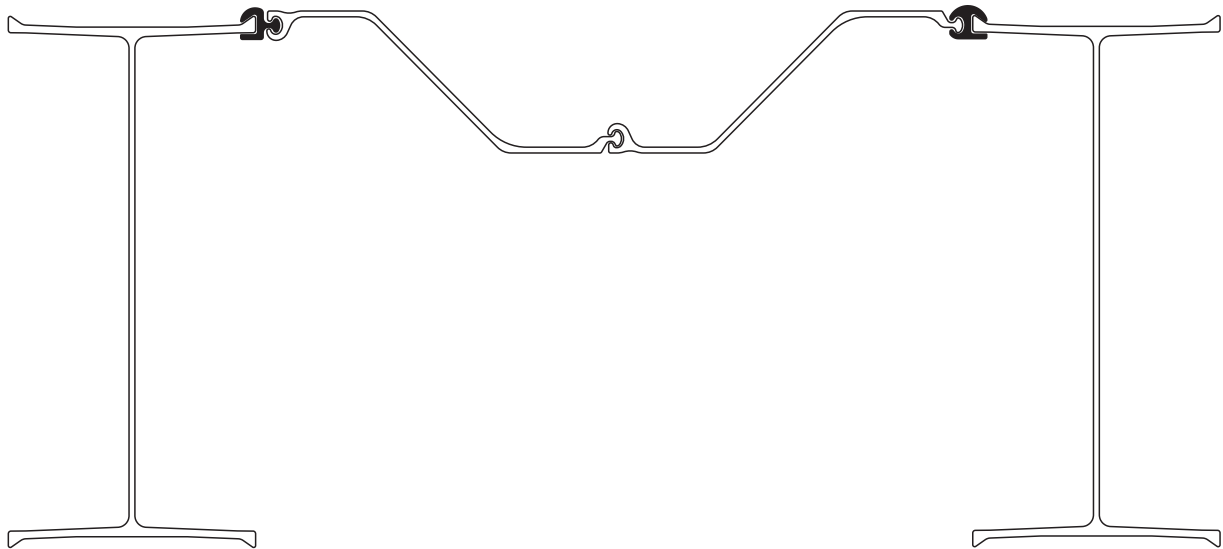
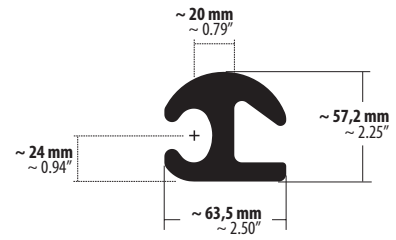
for Ball & Socket (PZ / PZC)



PBS-M



PBS-F



**WOM / WOF**

For combined walls (pipes) with PZ/PZC (ball & socket) sheet piles

Installation

1. The pipes are delivered with the connectors already attached.
2. First, install the king piles (pipes) as you would in any combined sheet pile wall application.
3. Grasp the sheet piling and thread between the already installed pipe piles.
4. Increase flexibility in the middle interlocks of the sheet piles, combined with the swing of the connectors, enable easier threading of the intermediate sheet piling.
5. All welding seams are a minimum ~6mm (~0.25").
6. Both sides have a continuous minimum tip and toe welding of ~500mm (~20").
7. Both sides are tack welded in the free length between tip and toe welding with 200mm/m (8"/yd). The distance from seam to seam is ~800mm (~31.5") or less.
8. In salt water, the water side is continuously welded on the whole pile length. Follow the instructions above for the reverse side of the pile, if it is not in contact with salt water.

Properties

Steel grade:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Weight WOM:	~4.4 lb / ft
Weight WOF:	~5.6 lb / ft

**WOM / WOF****Raccord à souder**

Pour PZ et PZC (Ball + Socket)

Domaines d'emploi

1. Rideaux mixtes avec des tubes et des profilés PZ/PZC

Caractéristiques

Nuances d'acier:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Poids WOM:	~ 6,6 kg/m
Poids WOF:	~ 8,3 kg/m

**WOM / WOF****Anschweißprofile**

Für PZ und PZC (Ball and Socket)

Einsatzgebiet

1. Erstellen von Kombiwänden mit Rohren und PZ/PZC-Profilen

**Eigenschaften**

Stahlgüten:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Gewicht WOM:	~ 6,6 kg/m
Gewicht WOF:	~ 8,3 kg/m

**WOM / WOF****Profili saldati**

Per PZ e PZC (maschio e femmina)

Campo di applicazione

1. Realizzazione di pareti combinate con tubi e profili PZ/PZC

Caratteristiche

Qualità dell'acciaio:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso WOM:	~ 6,6 kg/m
Peso WOF:	~ 8,3 kg/m

**WOM / WOF****Perfiles de soldadura**

Para PZ y PZC (Ball and Socket)

Ámbito de aplicaciones

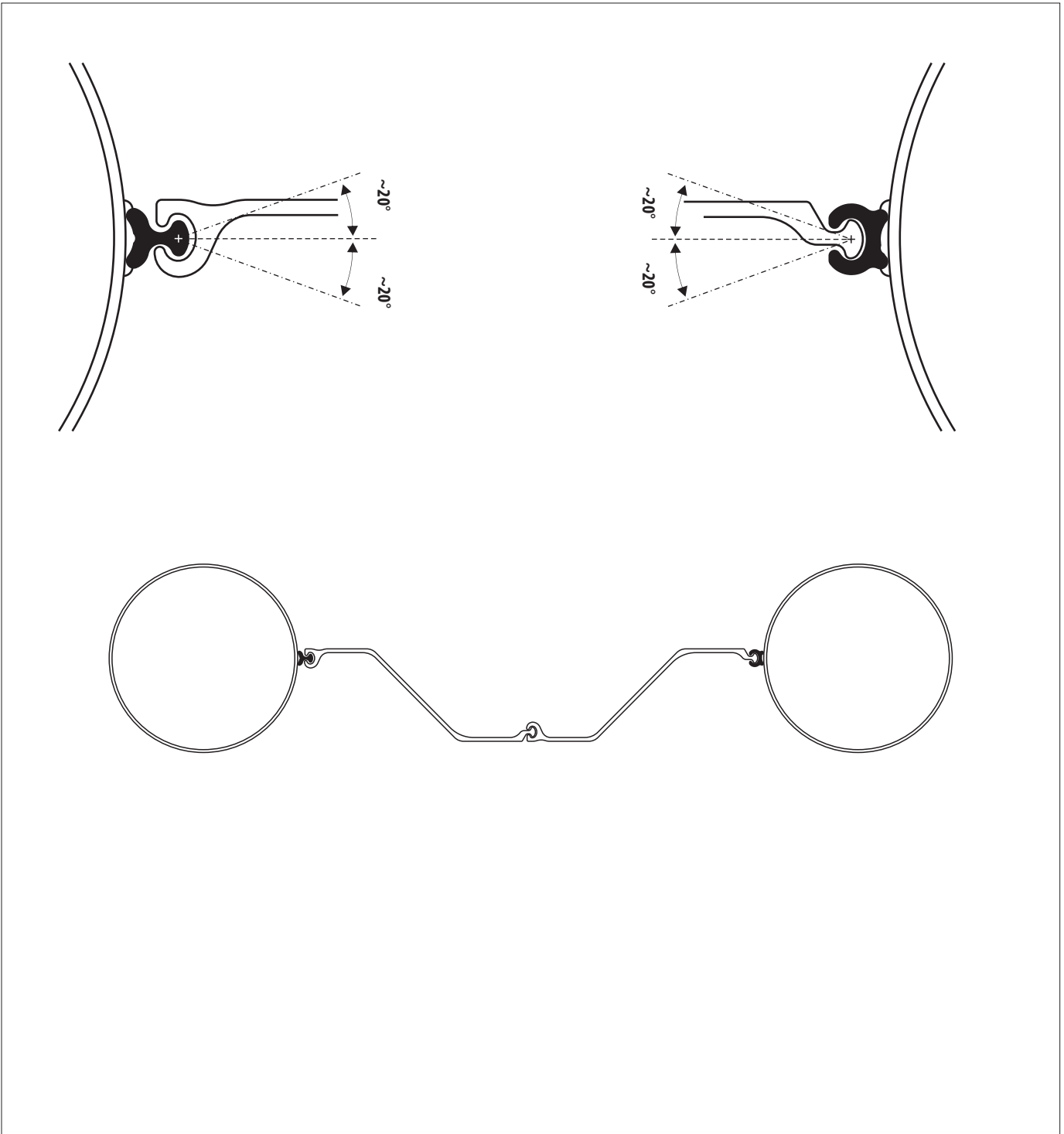
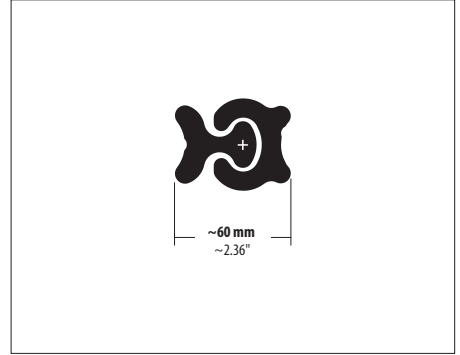
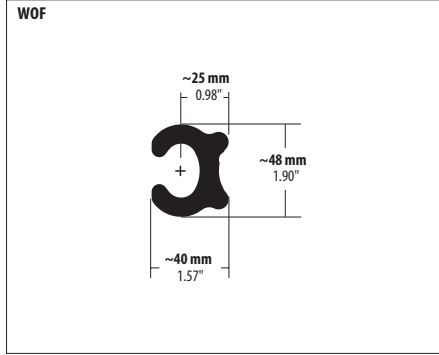
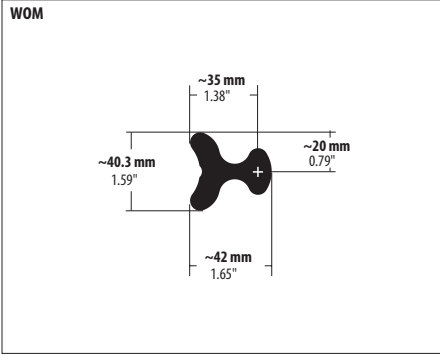
1. Formación de pantallas combinadas con tubos y perfiles PZ/PZC

Propiedades

Calidades de acero:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso WOM:	~ 6,6 kg/m
Peso WOF:	~ 8,3 kg/m

WOM / WOF

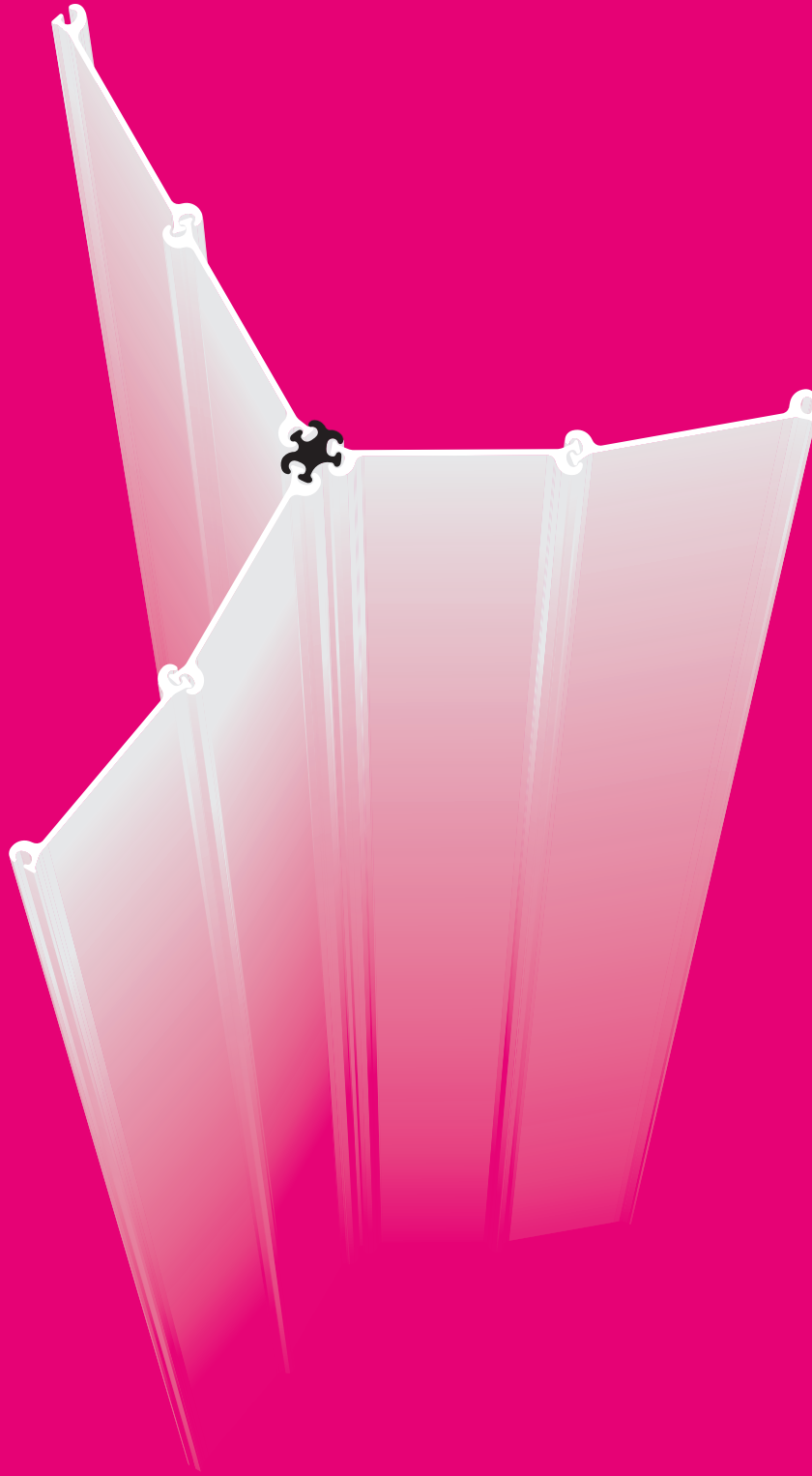
for Ball & Socket (PZ / PZC)



COMBINED SHEET PILES



33





Overview

Overview

For Flat Sheets
(Gerdau PS, Union,
YSP Nippon)

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(Gerdau PS, Union,
YSP Nippon)

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YSP Nippon)

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YSP Nippon)

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SWC 30 A

For 30° Y-corners in circular cells with flat sheet piles

Installation

1. Please review the proper interlocking examples that are listed.
2. Thread the connector into the interlock while the sheet pile is out of the ground.
3. Adjust the connector to the appropriate position.
4. Tack or spot-weld the connector in place. Typically, a ~250mm (~10") weld, attaching the connector to the sheet pile to the top is sufficient.
5. Drive/extract the sheet pile (with the connector attached) as you would normally.

Properties

Steel grade:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Weight:	~ 37.89 lb / ft



SWC 30 A

30° Abzweigprofil für Kreiszellen

Für Flachprofile (Gerdau PS, Union, YSP Nippon)

Einsatzgebiet

Erstellen von 30°-Abzweigungen



Eigenschaften

Stahlgüten:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Gewicht:	~ 56,5 kg/m



SWC 30 A

Perfil bifurcado de 30° para celdas circulares

Para perfiles planos (Gerdau PS, Union, YSP Nippon)

Ámbito de aplicaciones

Formación de bifurcaciones de 30°

Propiedades

Calidades de acero:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~ 56,5 kg/m



SWC 30 A

Raccord en Y 30°

Pour profilés plats (Gerdau PS, Union, YSP Nippon)

Domaines d'emploi

Raccordement de trois palplanches permettant un angle de 30° entre deux des profilés

Caractéristiques

Nuances d'acier:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Poids:	~ 56,5 kg/m



SWC 30 A

Profilo per diramazione a 30° per celle circolari

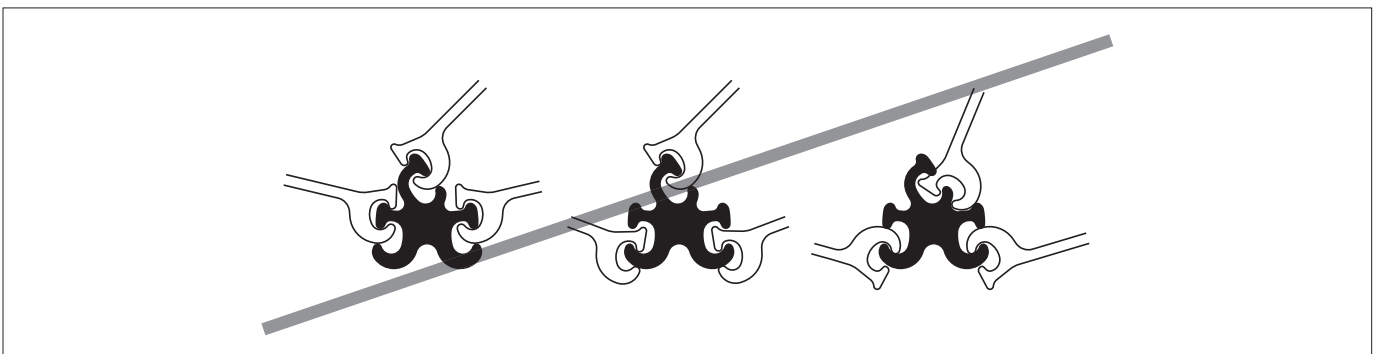
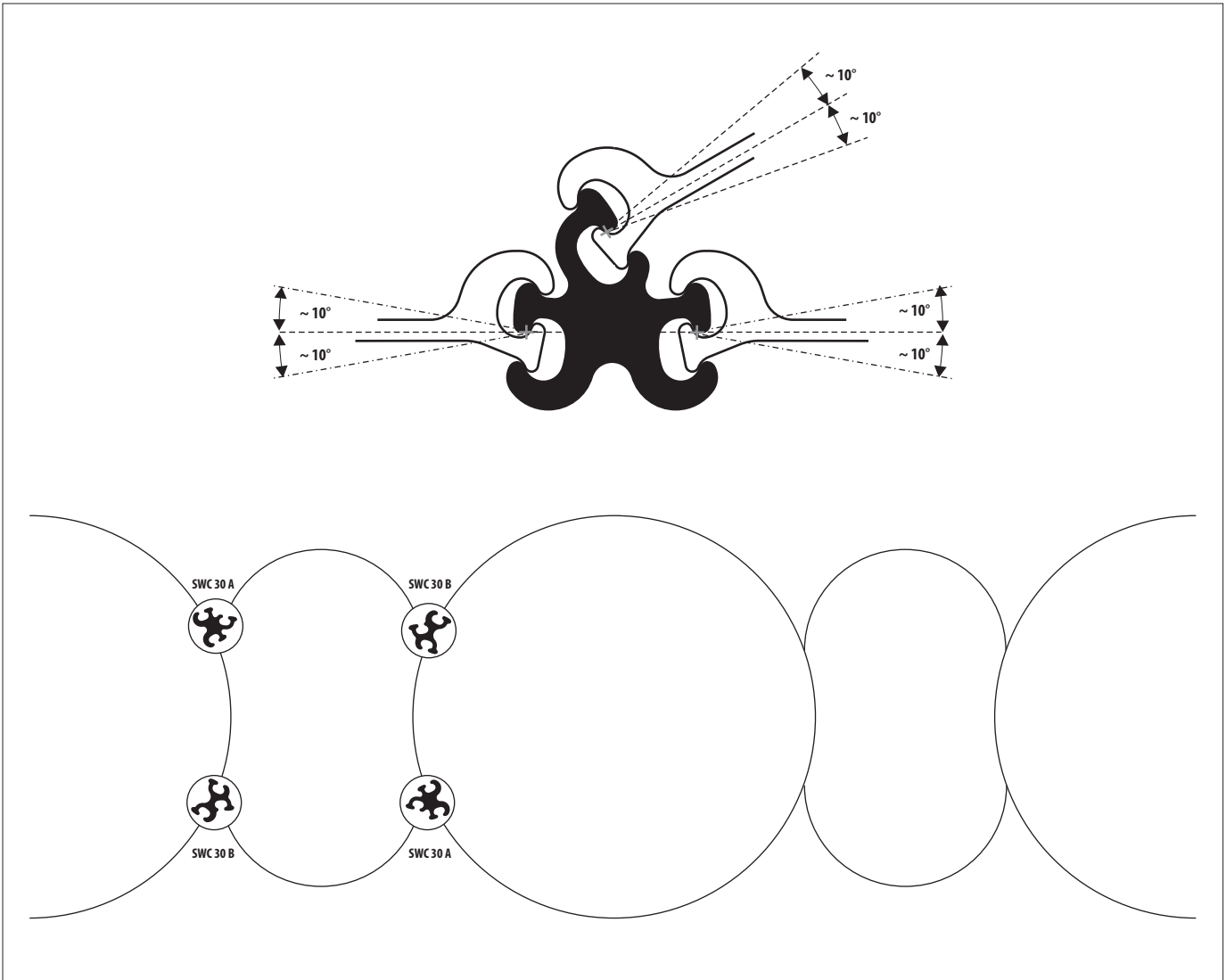
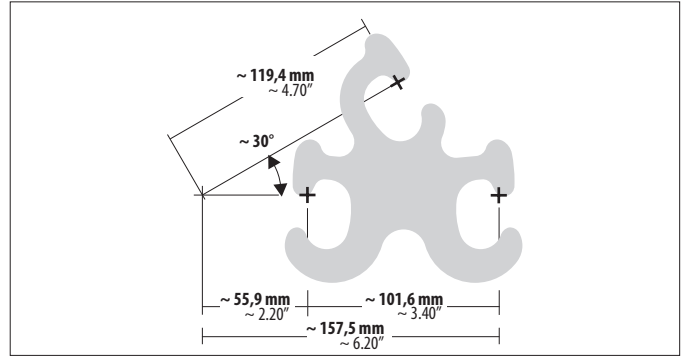
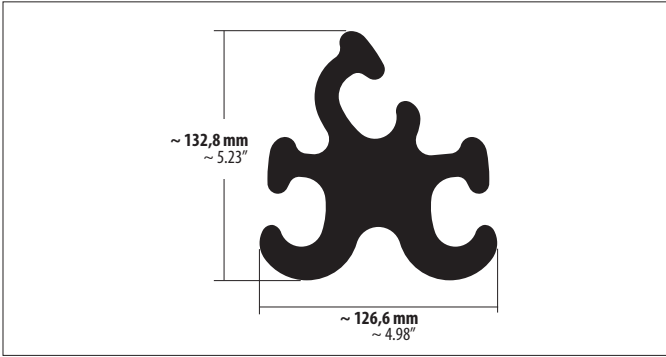
Per profili piatti (Gerdau PS, Union, YSP Nippon)

Campo di applicazione

Realizzazione di diramazioni a 30°

Caratteristiche

Qualità dell'acciaio:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~ 56,5 kg/m





SWC 30 B

For 30° Y-corners in circular cells with flat sheet piles

Installation

1. Please review the proper interlocking examples that are listed.
2. Thread the connector into the interlock while the sheet pile is out of the ground.
3. Adjust the connector to the appropriate position.
4. Tack or spot-weld the connector in place. Typically, a ~250mm (~10") weld, attaching the connector to the sheet pile to the top is sufficient.
5. Drive/extract the sheet pile (with the connector attached) as you would normally.

Properties

Steel grade:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Weight:	~ 28.83 lb / ft



SWC 30 B

30° Abzweigprofil für Kreiszellen

Für Flachprofile (Gerdau PS, Union, YSP Nippon)

Einsatzgebiet

Erstellen von 30°-Abzweigungen



Eigenschaften

Stahlgüten:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Gewicht:	~ 43,0 kg/m



SWC 30 B

Perfil bifurcado de 30° para celdas circulares

Para perfiles planos (Gerdau PS, Union, YSP Nippon)

Ámbito de aplicaciones

Formación de bifurcaciones de 30°

Propiedades

Calidades de acero:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~ 43,0 kg/m



SWC 30 B

Raccord en Y 30°

Pour profilés plats (Gerdau PS, Union, YSP Nippon)

Domaines d'emploi

Raccordement de trois palplanches permettant un angle de 30° entre deux des profilés

Caractéristiques

Nuances d'acier:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Poids:	~ 43,0 kg/m



SWC 30 B

Profilo per diramazione a 30° per celle circolari

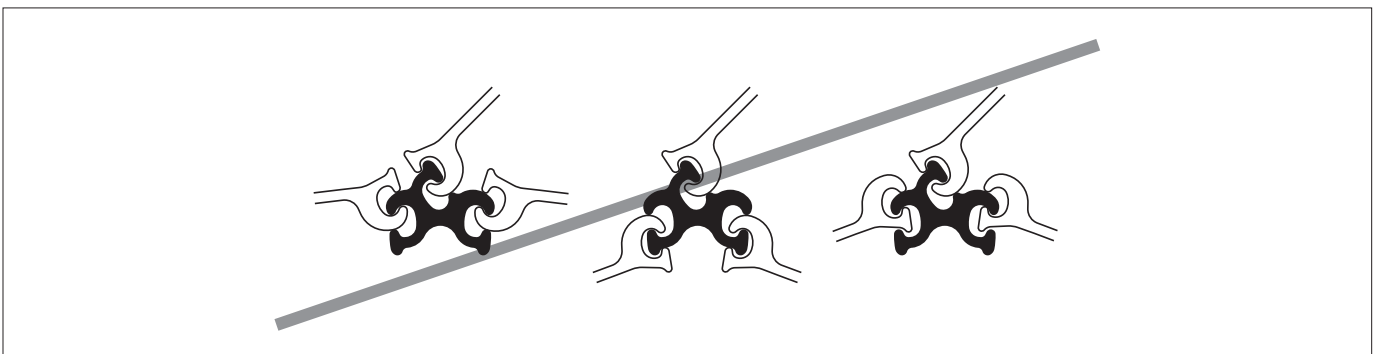
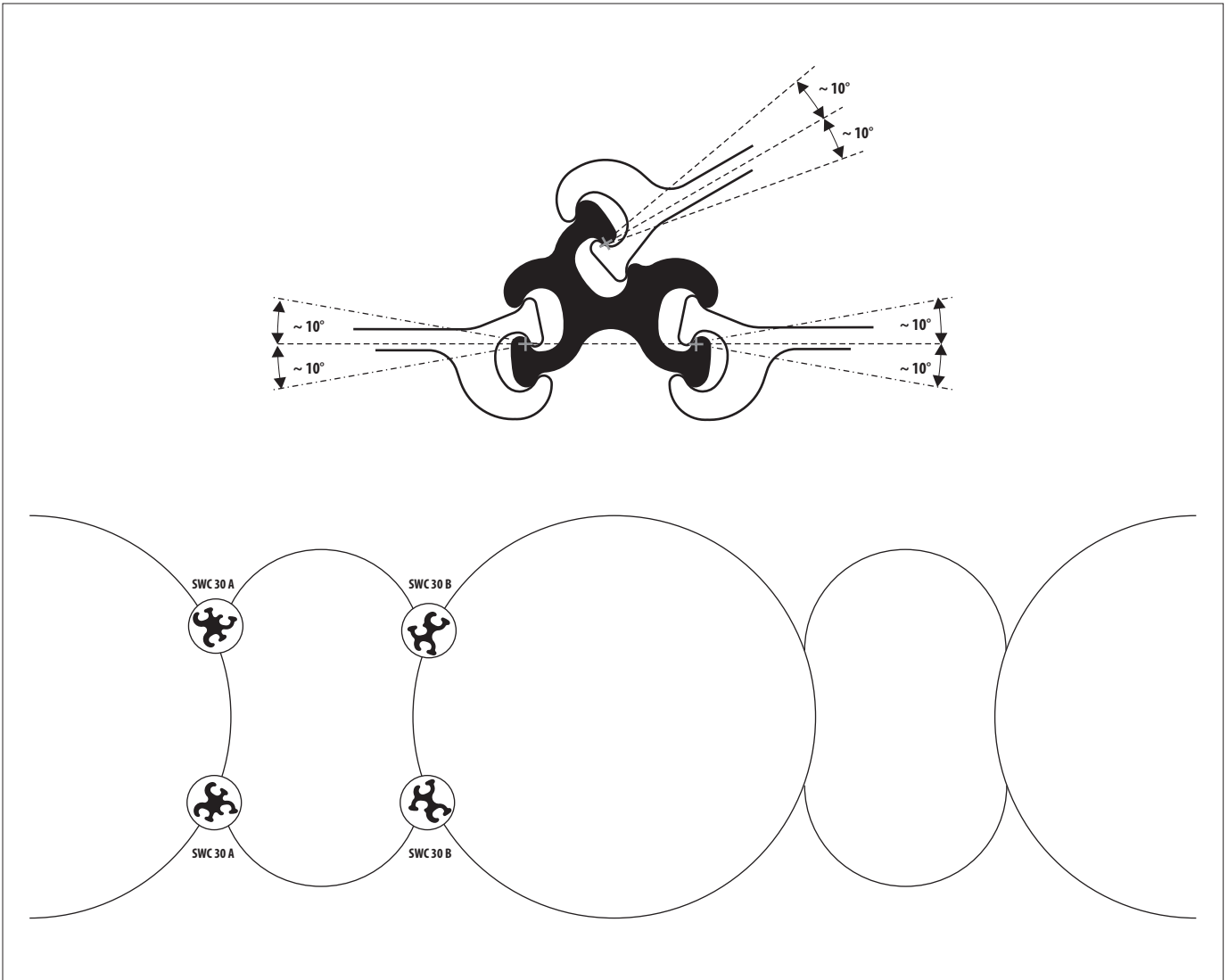
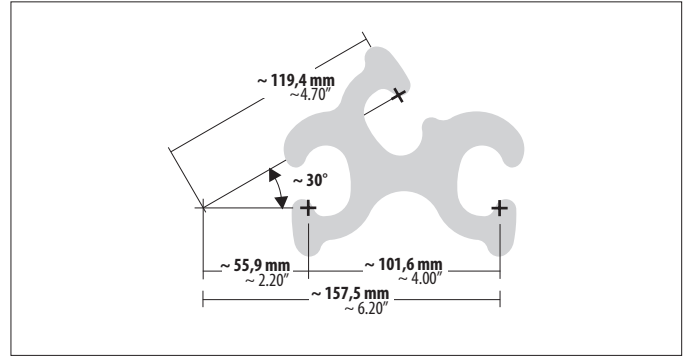
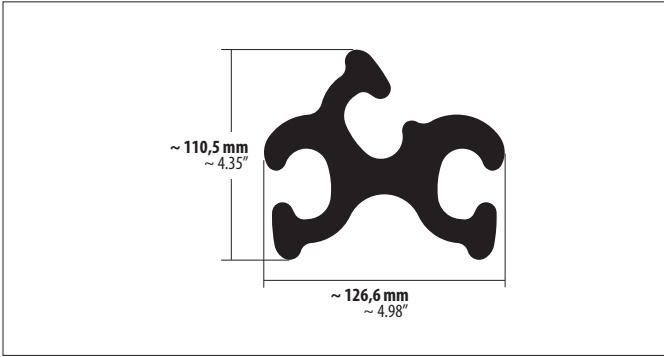
Per profili piatti (Gerdau PS, Union, YSP Nippon)

Campo di applicazione

Realizzazione di diramazioni a 30°

Caratteristiche

Qualità dell'acciaio:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~ 43,0 kg/m





SWC 60 A

For 60° Y-corners in circular cells with flat sheet piles

Installation

1. Please review the proper interlocking examples that are listed.
2. Thread the connector into the interlock while the sheet pile is out of the ground.
3. Adjust the connector to the appropriate position.
4. Tack or spot-weld the connector in place. Typically, a ~250mm (~10") weld, attaching the connector to the sheet pile to the top is sufficient.
5. Drive/extract the sheet pile (with the connector attached) as you would normally.

Properties

Steel grade:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Weight:	~ 41.11 lb / ft



SWC 60 A

60° Abzweigprofil für Kreiszellen

Für Flachprofile (Gerdau PS, Union, YSP Nippon)

Einsatzgebiet

Erstellen von 60°-Abzweigungen



Eigenschaften

Stahlgüten:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Gewicht:	~ 61,3 kg/m



SWC 60 A

Perfil bifurcado de 60° para celdas circulares

Para perfiles planos (Gerdau PS, Union, YSP Nippon)

Ámbito de aplicaciones

Formación de bifurcaciones de 60°

Propiedades

Calidades de acero:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Peso:	~ 61,3 kg/m



SWC 60 A

Raccord en Y 60°

Pour profilés plats (Gerdau PS, Union, YSP Nippon)

Domaines d'emploi

Raccordement de trois palplanches permettant un angle de 60° entre deux des profilés

Caractéristiques

Nuances d'acier:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Poids:	~ 61,3 kg/m



SWC 60 A

Profilo per diramazione a 60° per celle circolari

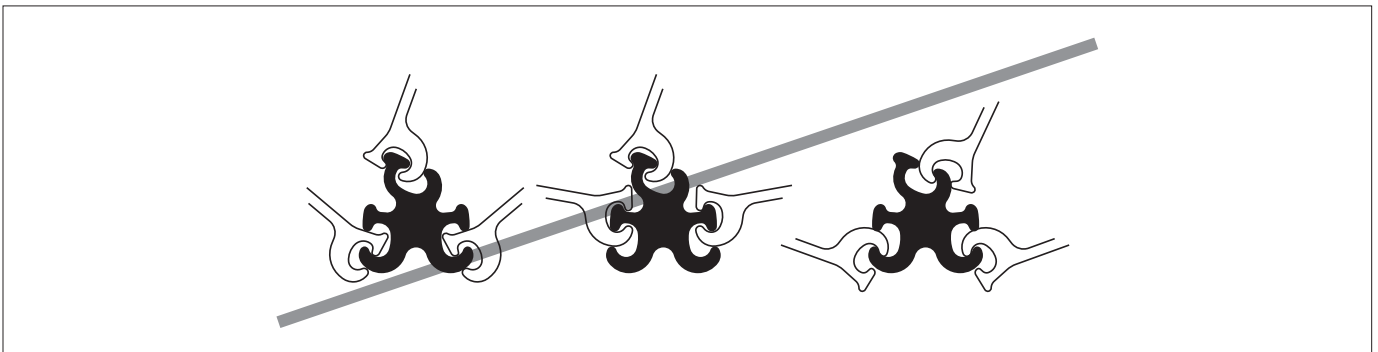
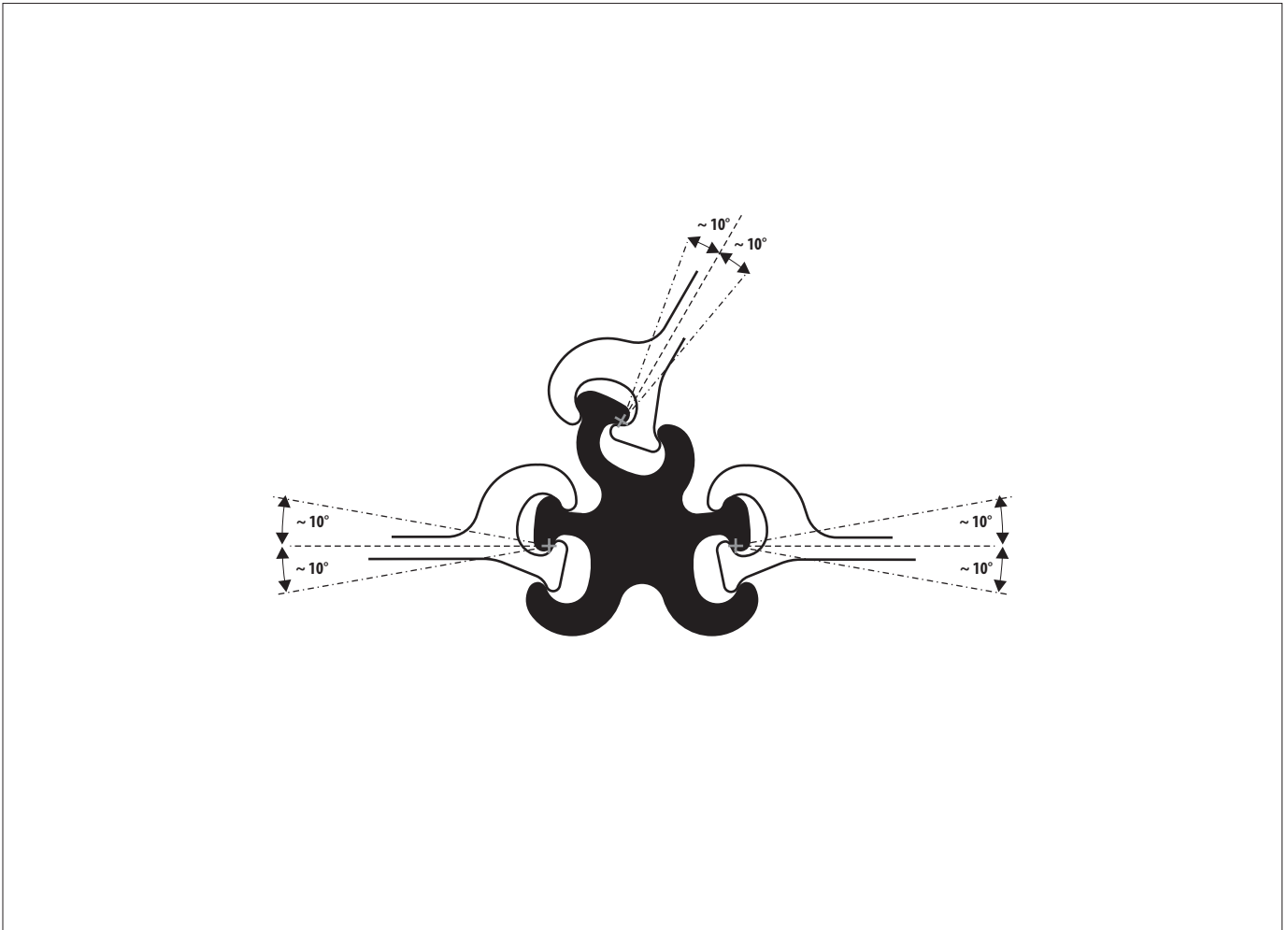
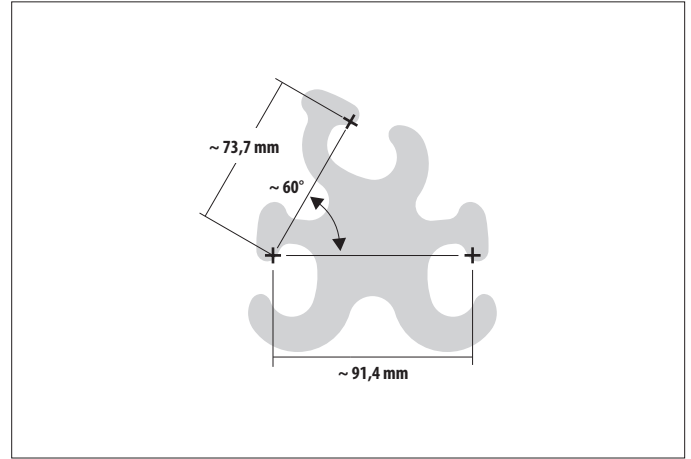
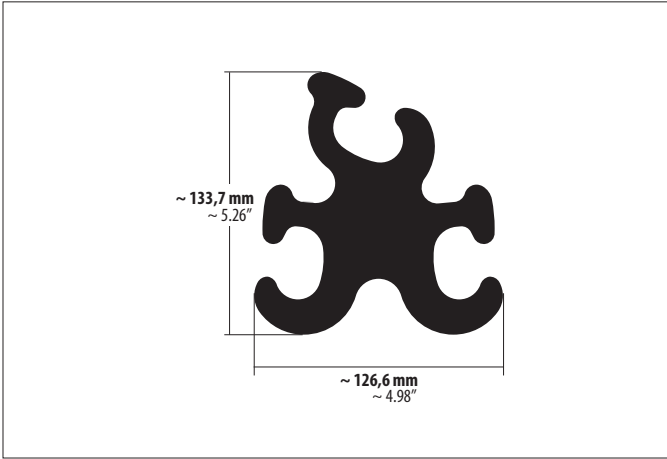
Per profili piatti (Gerdau PS, Union, YSP Nippon)

Campo di applicazione

Realizzazione di diramazioni a 60°

Caratteristiche

Qualità dell'acciaio:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Peso:	~ 61,3 kg/m





SWC 60 B

for Flat Sheets



SWC 60 B

For 60° Y-corners in circular cells with flat sheet piles

Installation

1. Please review the proper interlocking examples that are listed.
2. Thread the connector into the interlock while the sheet pile is out of the ground.
3. Adjust the connector to the appropriate position.
4. Tack or spot-weld the connector in place. Typically, a ~250mm (~10") weld, attaching the connector to the sheet pile to the top is sufficient.
5. Drive/extract the sheet pile (with the connector attached) as you would normally.

Properties

Steel grade:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Weight:	~ 33.46 lb / ft



SWC 60 B

60° Abzweigprofil für Kreiszellen

Für Flachprofile (Gerdau PS, Union, YSP Nippon)

Einsatzgebiet

Erstellen von 60°-Abzweigungen



Eigenschaften

Stahlgüten:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Gewicht:	~ 49,9 kg/m



SWC 60 B

Perfil bifurcado de 60° para celdas circulares

Para perfiles planos (Gerdau PS, Union, YSP Nippon)

Ámbito de aplicaciones

Formación de bifurcaciones de 60°

Propiedades

Calidades de acero:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~ 49,9 kg/m



SWC 60 B

Raccord en Y 60°

Pour profilés plats (Gerdau PS, Union, YSP Nippon)

Domaines d'emploi

Raccordement de trois palplanches permettant un angle de 60° entre deux des profilés

Caractéristiques

Nuances d'acier:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Poids:	~ 49,9 kg/m



SWC 60 B

Profilo per diramazione a 60° per celle circolari

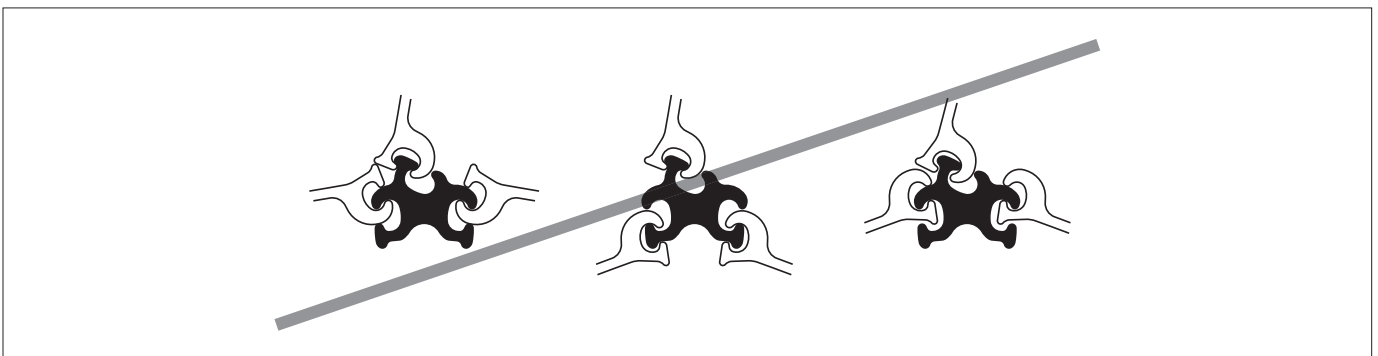
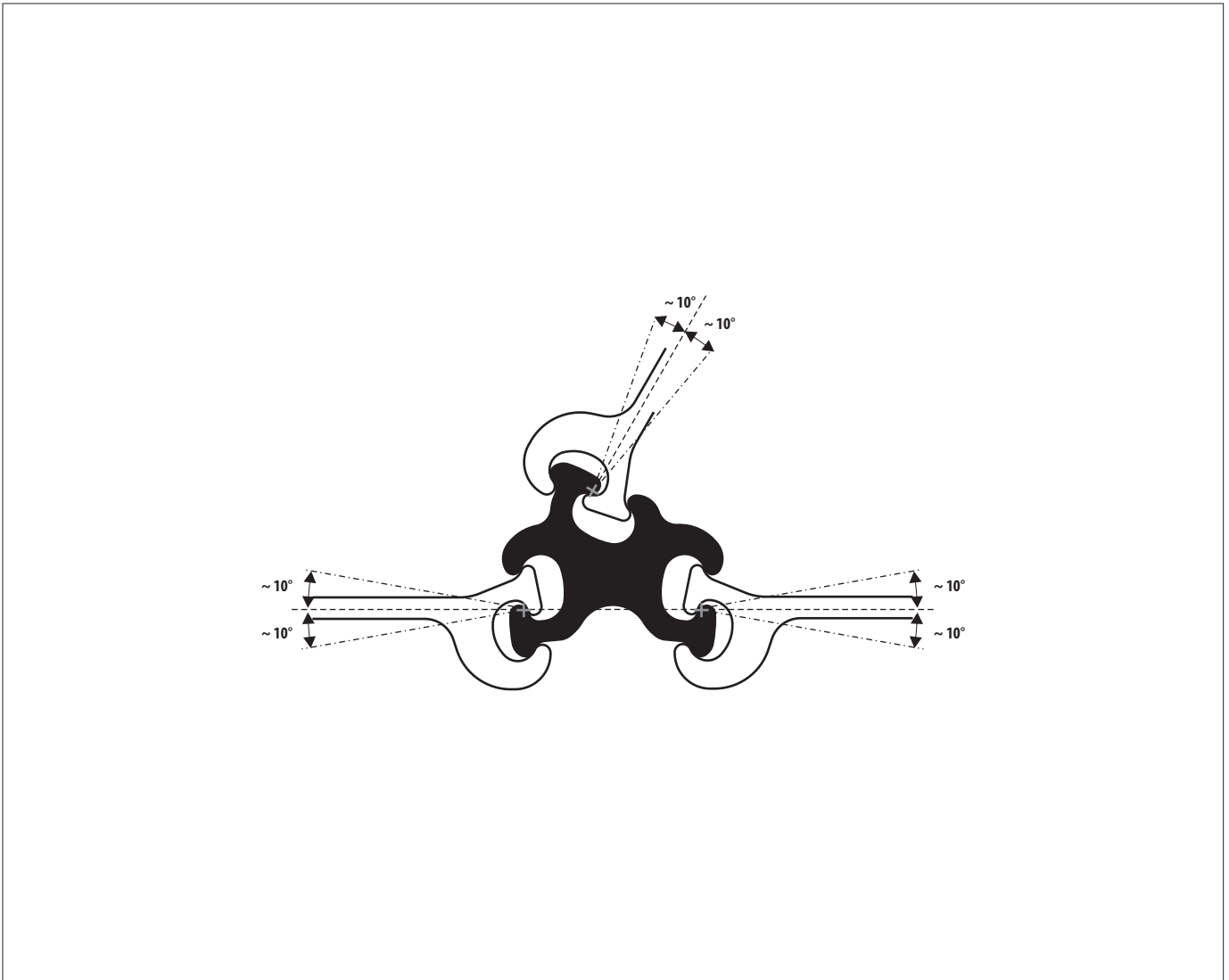
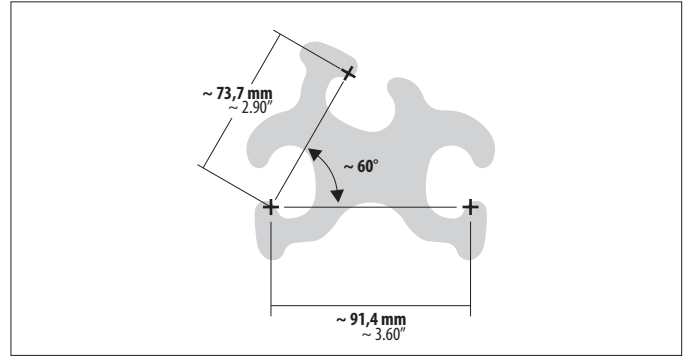
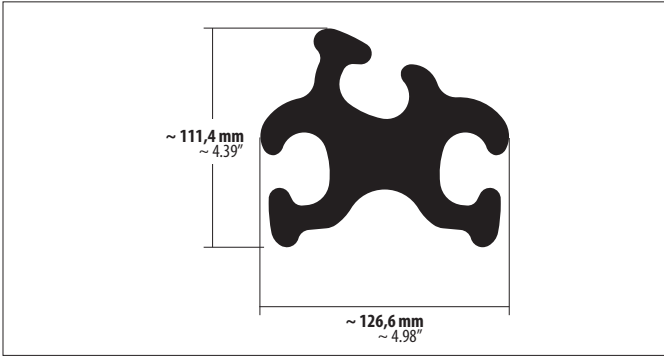
Per profili piatti (Gerdau PS, Union, YSP Nippon)

Campo di applicazione

Realizzazione di diramazioni a 60°

Caratteristiche

Qualità dell'acciaio:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~ 49,9 kg/m





SWC 90 A

For 90° T-corners in circular cells with flat sheet piles

Installation

1. Please review the proper interlocking examples that are listed.
2. Thread the connector into the interlock while the sheet pile is out of the ground.
3. Adjust the connector to the appropriate position.
4. Tack or spot-weld the connector in place. Typically, a ~250mm (~10") weld, attaching the connector to the sheet pile to the top is sufficient.
5. Drive/extract the sheet pile (with the connector attached) as you would normally.

Properties

Steel grade:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Weight:	~ 35.82 lb / ft



SWC 90 A

T-Verbindung

90° Abzweigprofil

Für Flachprofile (Gerdau PS, Union, YSP Nippon)

Einsatzgebiet

Erstellen von 90°-Abzweigungen



Eigenschaften

Stahlgüten:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Gewicht:	~ 53,3 kg/m



SWC 90 A

Unión en T

Perfil bifurcado de 90°

Para perfiles planos (Gerdau PS, Union, YSP Nippon)

Ámbito de aplicaciones

Formación de bifurcaciones de 90°

Propiedades

Calidades de acero:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Peso:	~ 53,3 kg/m



SWC 90 A

Raccord en T 90°

Pour profilés plats (Gerdau PS, Union, YSP Nippon)

Domaines d'emploi

Raccordement de trois palplanches permettant un angle de 90° entre deux des profilés

Caractéristiques

Nuances d'acier:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Poids:	~ 53,3 kg/m



SWC 90 A

Connessione a T

Profilo per diramazione a 90°

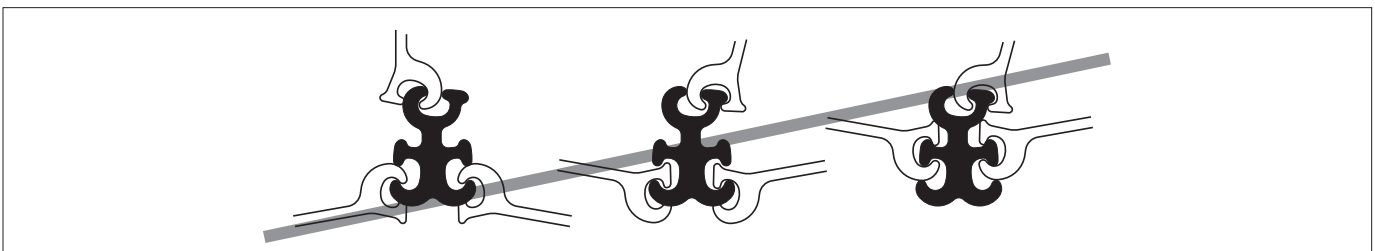
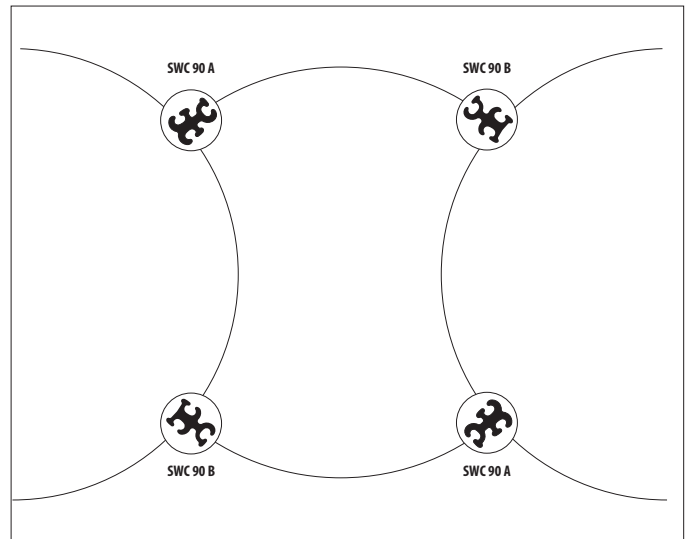
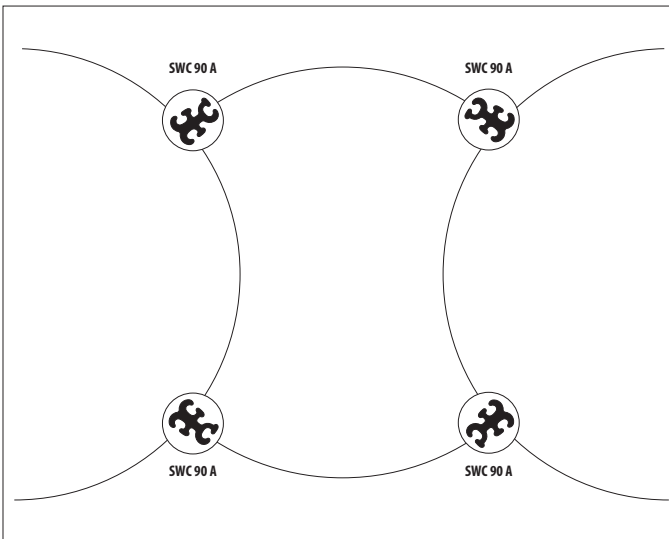
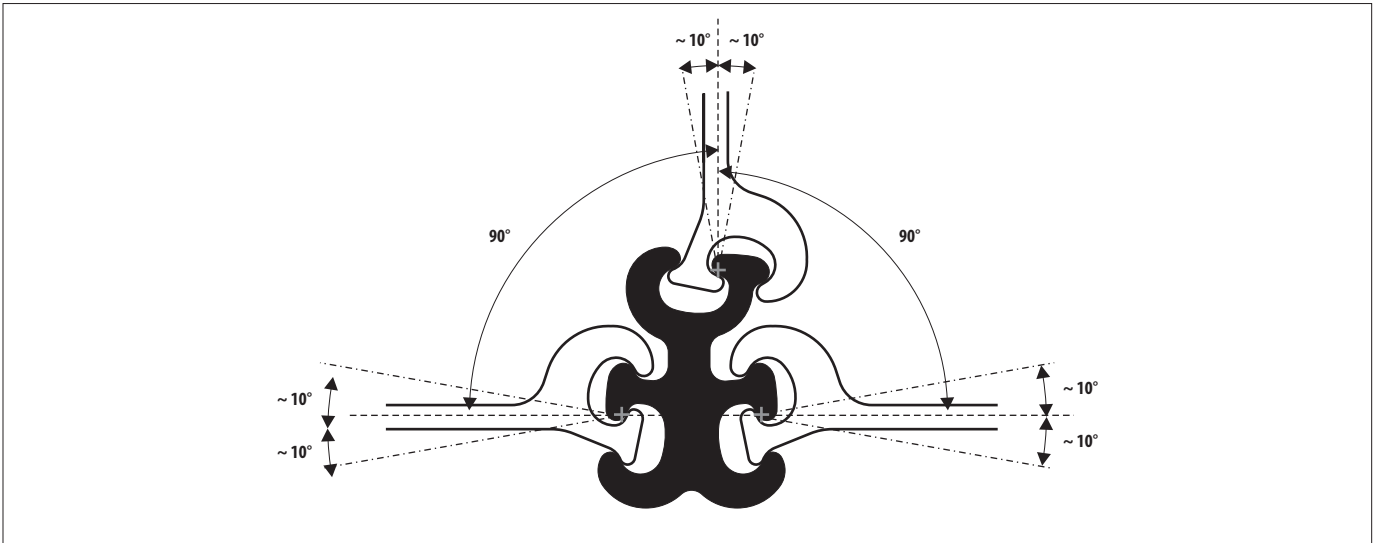
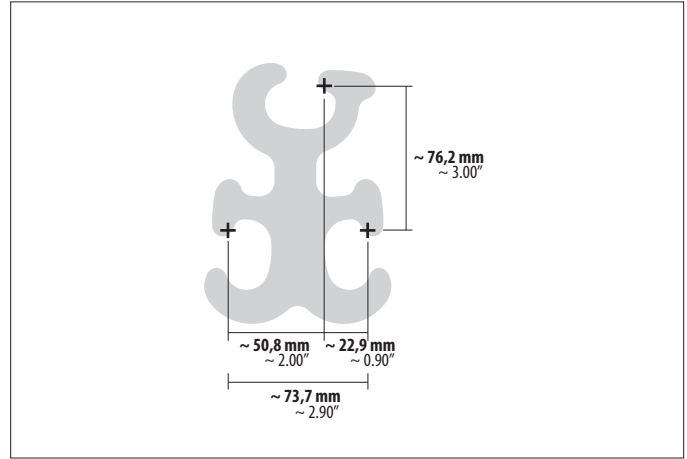
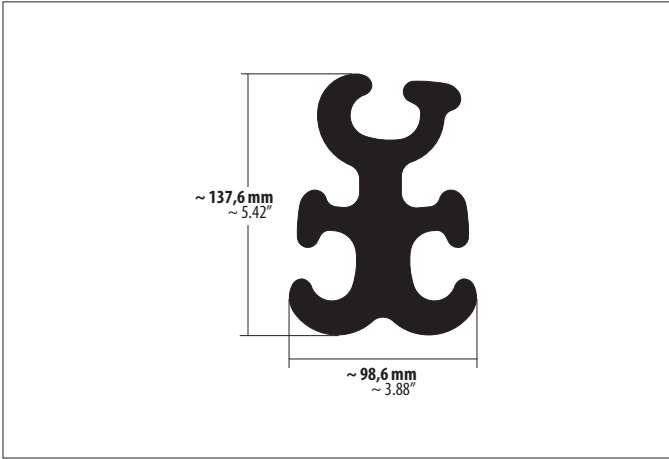
Per profili piatti (Gerdau PS, Union, YSP Nippon)

Campo di applicazione

Realizzazione di diramazioni a 90°

Caratteristiche

Qualità dell'acciaio:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Peso:	~ 53,3 kg/m





SWC 90 B

for Flat Sheets



SWC 90 B

For 90° T-corners in circular cells with flat sheet piles

Installation

1. Please review the proper interlocking examples that are listed.
2. Thread the connector into the interlock while the sheet pile is out of the ground.
3. Adjust the connector to the appropriate position.
4. Tack or spot-weld the connector in place. Typically, a ~250mm (~10") weld, attaching the connector to the sheet pile to the top is sufficient.
5. Drive/extract the sheet pile (with the connector attached) as you would normally.

Properties

Steel grade:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Weight:	~ 35.82 lb/ft



SWC 90 B

T-Verbindung

90° Abzweigprofil

Für Flachprofile (Gerdau PS, Union, YSP Nippon)

Einsatzgebiet

Erstellen von 90°-Abzweigungen



Eigenschaften

Stahlgüten:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Gewicht:	~ 53,3 kg/m



SWC 90 B

Unión en T

Perfil bifurcado de 90°

Para perfiles planos (Gerdau PS, Union, YSP Nippon)

Ámbito de aplicaciones

Formación de bifurcaciones de 90°

Propiedades

Calidades de acero:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~ 53,3 kg/m



SWC 90 B

Raccord en T 90°

Pour profilés plats (Gerdau PS, Union, YSP Nippon)

Domaines d'emploi

Raccordement de trois palplanches permettant un angle de 90° entre deux des profilés

Caractéristiques

Nuances d'acier:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Poids:	~ 53,3 kg/m



SWC 90 B

Connessione a T

Profilo per diramazione a 90°

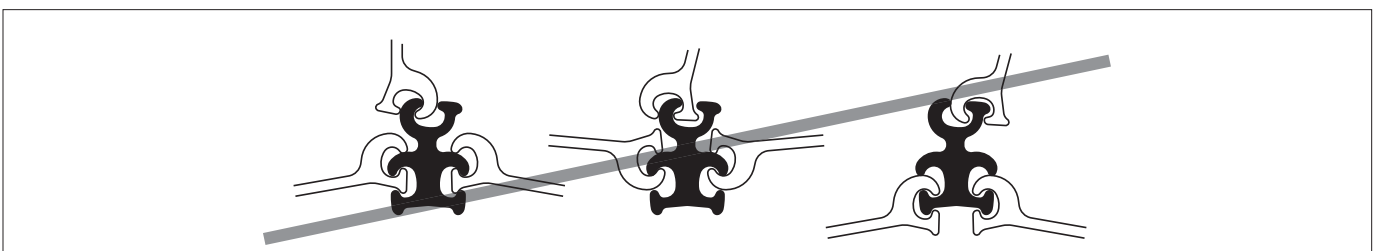
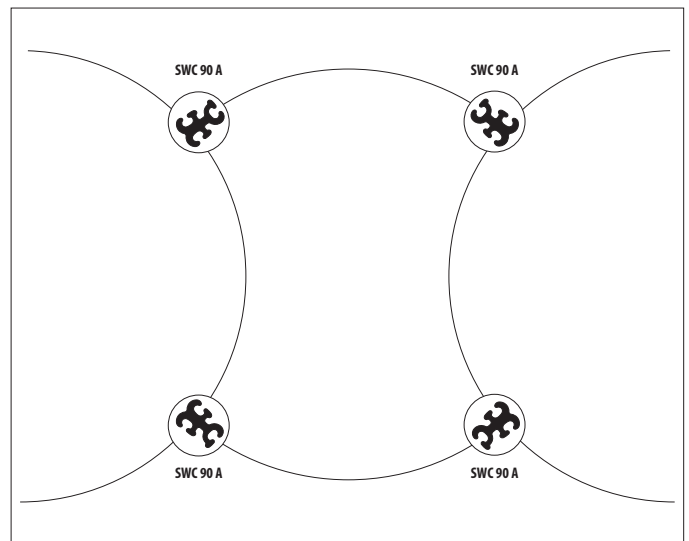
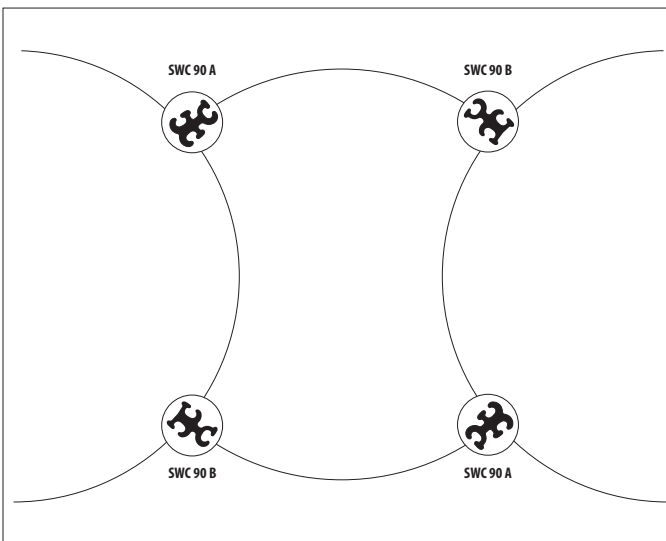
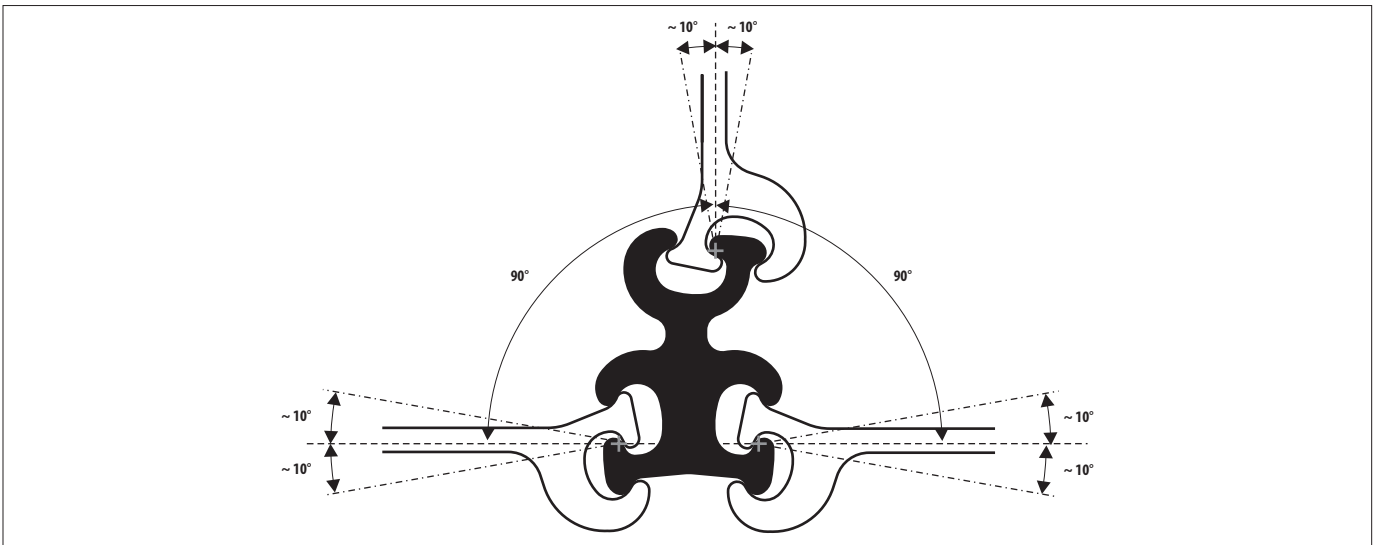
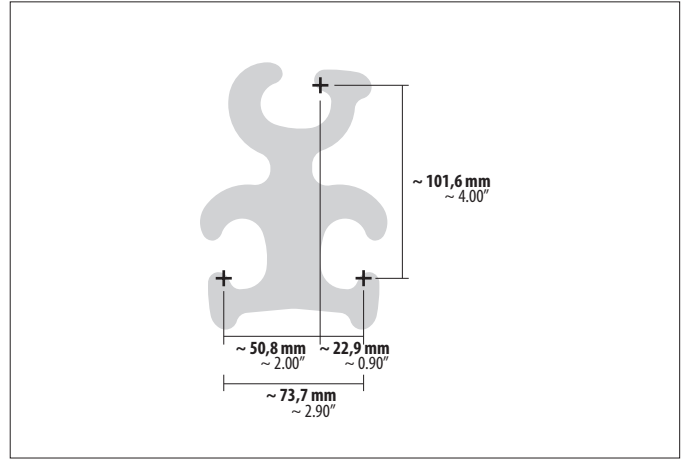
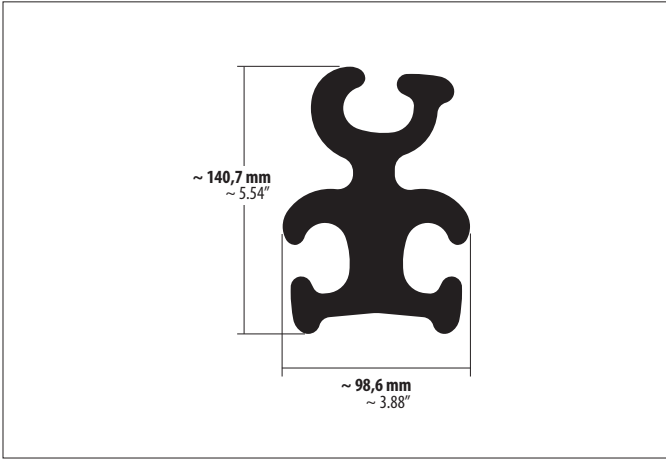
Per profili piatti (Gerdau PS, Union, YSP Nippon)

Campo di applicazione

Realizzazione di diramazioni a 90°

Caratteristiche

Qualità dell'acciaio:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~ 53,3 kg/m





SWC 120

For 120° Y-corners in circular cells with flat sheet piles

Installation

1. Please review the proper interlocking examples that are listed.
2. Thread the connector into the interlock while the sheet pile is out of the ground.
3. Adjust the connector to the appropriate position.
4. Tack or spot-weld the connector in place. Typically, a ~250mm (~10") weld, attaching the connector to the sheet pile to the top is sufficient.
5. Drive/extract the sheet pile (with the connector attached) as you would normally.

Properties

Steel grade:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Weight:	~ 38.29 lb / ft



SWC 120

120° Abzweigprofil

Für Flachprofile (Gerdau PS, Union, YSP Nippon)

Einsatzgebiet

Erstellen von 120°-Abzweigungen



Eigenschaften

Stahlgüten:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Gewicht:	~ 57,1 kg/m



SWC 120

Perfil bifurcado de 120°

Para perfiles planos (Gerdau PS, Union, YSP Nippon)

Ámbito de aplicaciones

Formación de bifurcaciones de 120°

Propiedades

Calidades de acero:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~ 57,1 kg/m



SWC 120

Raccord en Y 120°

Pour profilés plats PS (Gerdau PS, Union, YSP Nippon)

Domaines d'emploi

Raccordement de trois palplanches permettant un angle de 120° entre deux des profilés

Caractéristiques

Nuances d'acier:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Poids:	~ 57,1 kg/m



SWC 120

Profilo per diramezione a 120°

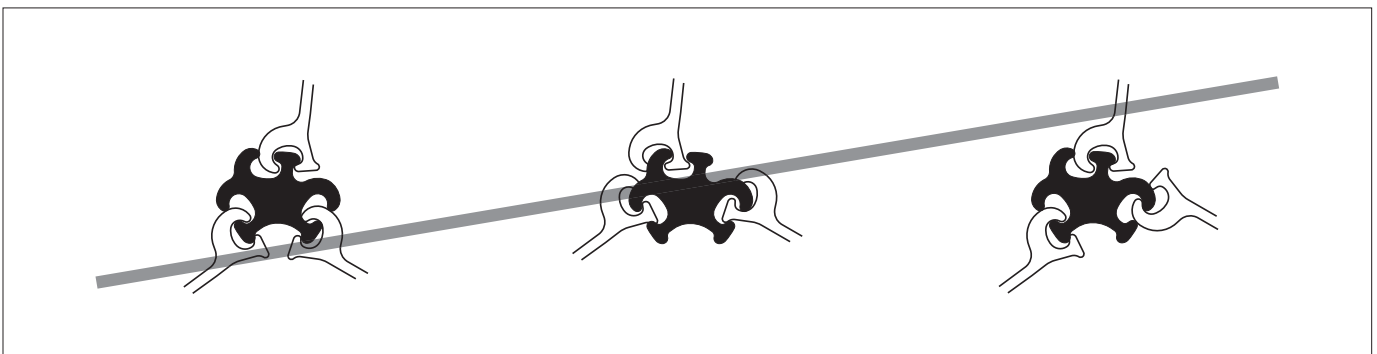
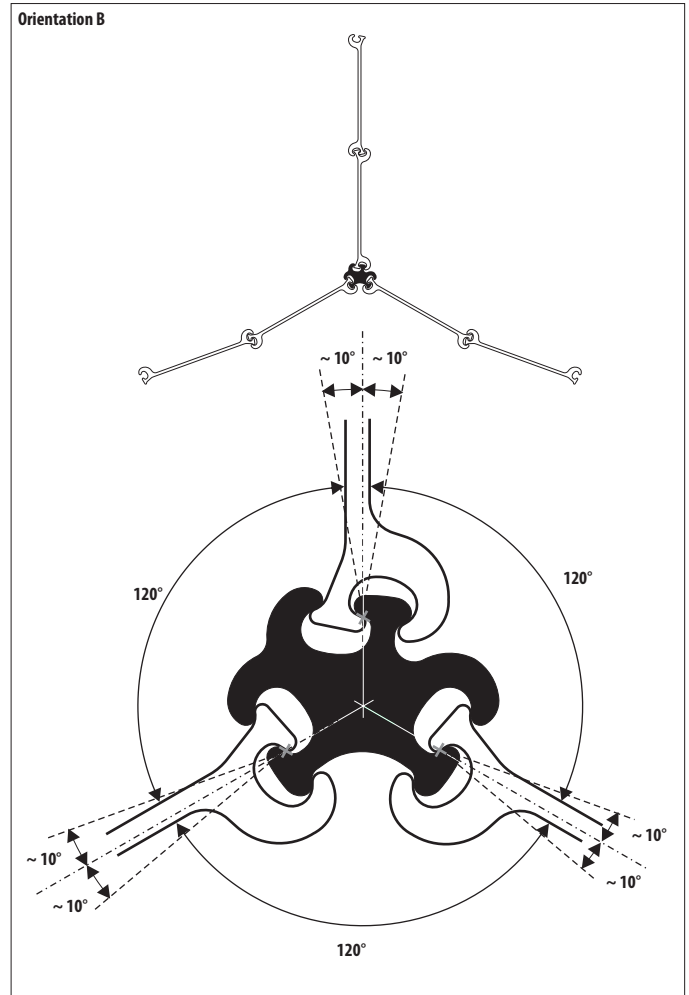
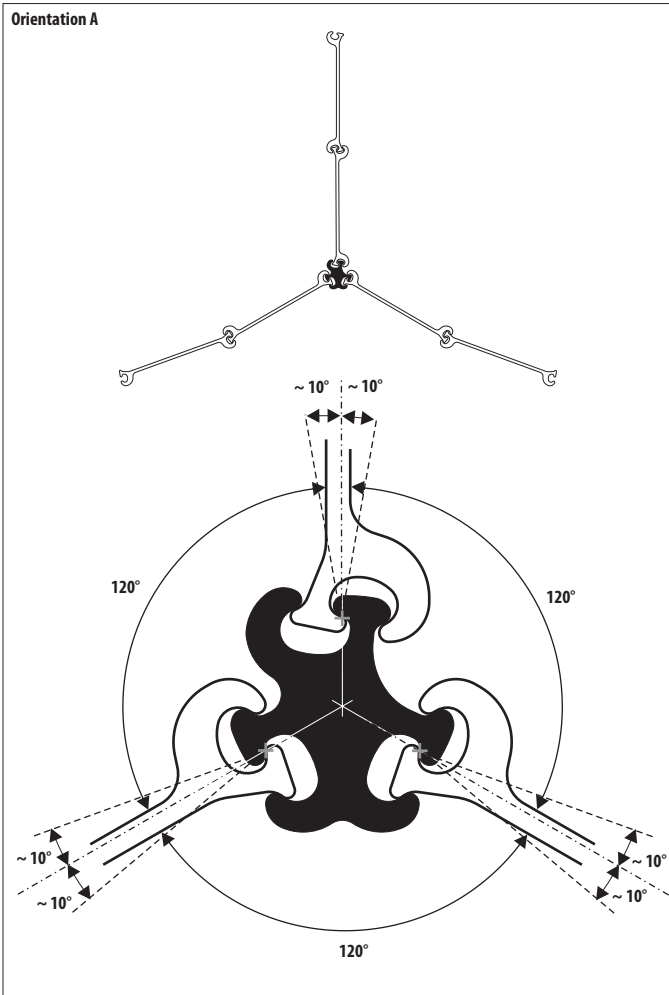
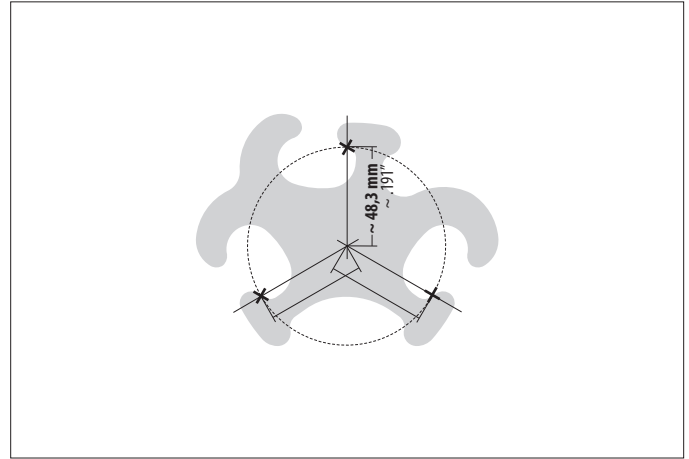
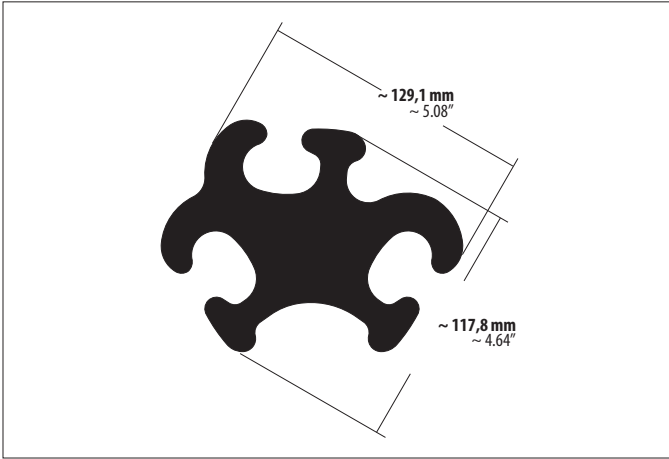
Per profili piatti (Gerdau PS, Union, YSP Nippon)

Campo di applicazione

Realizzazione di diramazioni a 120°

Caratteristiche

Qualità dell'acciaio:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~ 57,1 kg/m





SWC

For weld-on connections with flat sheet piles

Installation

1. Please review the proper interlocking examples that are listed.
2. Thread the connector into the interlock while the sheet pile is out of the ground.
3. Adjust the connector to the appropriate position.
4. Tack or spot-weld the connector in place. Typically, a ~250mm (~10") weld, attaching the connector to the sheet pile to the top is sufficient.
5. Drive/extract the sheet pile (with the connector attached) as you would normally.

Properties

Steel grade:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Weight:	~ 12.34 lb / ft



SWC

Anschweißprofil

Für Flachprofile (Gerdau PS, Union, YSP Nippon)

Einsatzgebiet

1. Anschweißprofil zur Rückverankerung
2. Erstellen von Kombiwänden mit Flachprofilen
3. Erstellen von Abzweigungen



Eigenschaften

Stahlgüten:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Gewicht:	~ 18,4 kg/m



SWC

Perfil de soldadura

Para perfiles planos (Gerdau PS, Union, YSP Nippon)

Ámbito de aplicaciones

1. Perfil de soldadura para reanclar
2. Formación de pantallas combinadas con perfiles planos
3. Formación de bifurcaciones

Propiedades

Calidades de acero:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~ 18,4 kg/m



SWC

Raccord à souder

Pour profilés plats (Gerdau PS, Union, YSP Nippon)

Domaines d'emploi

1. Raccord à souder pour ancrage arrière
2. Rideaux mixtes avec des profilés plats
3. Fabrication de départs/branchements

Caractéristiques

Nuances d'acier:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Poids:	~ 18,4 kg/m



SWC

Profilo da saldare per la connessione di tubi o travi con profili piatti

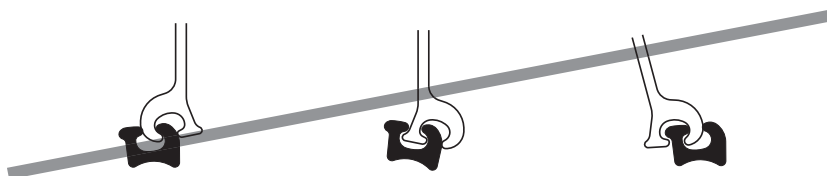
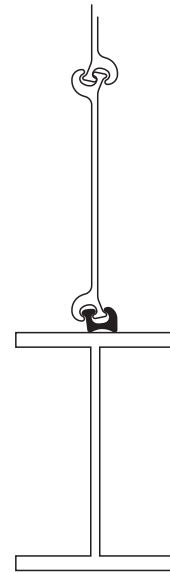
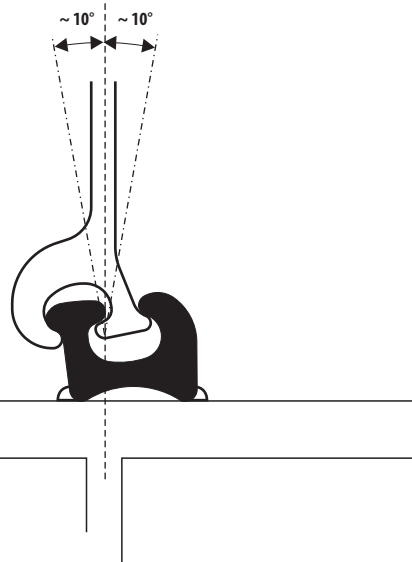
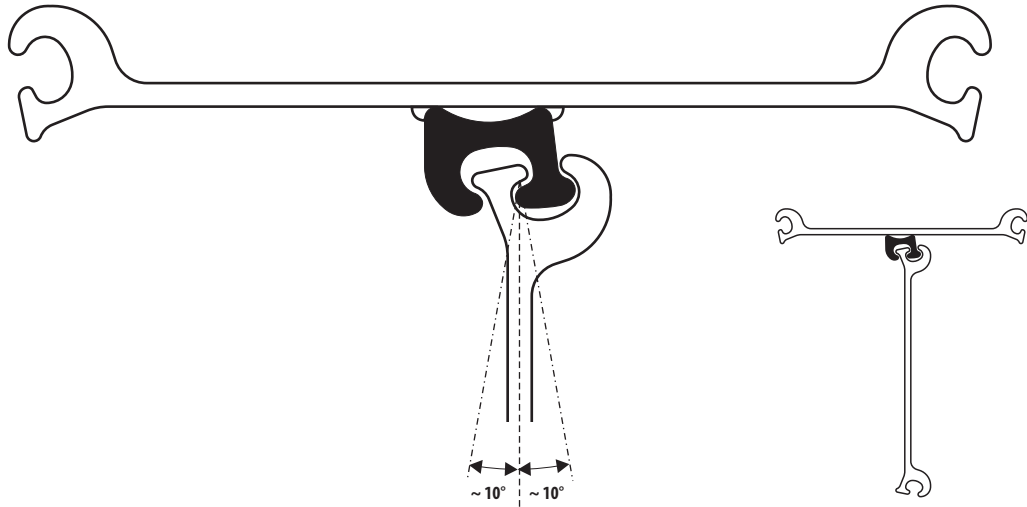
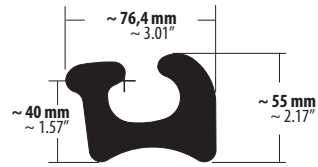
Per profili piatti (Gerdau PS, Union, YSP Nippon)

Campo di applicazione

1. Profilo da saldare per il retroancoraggio
2. Realizzazione di pareti combinate con profili piatti
3. Realizzazione di diramazioni

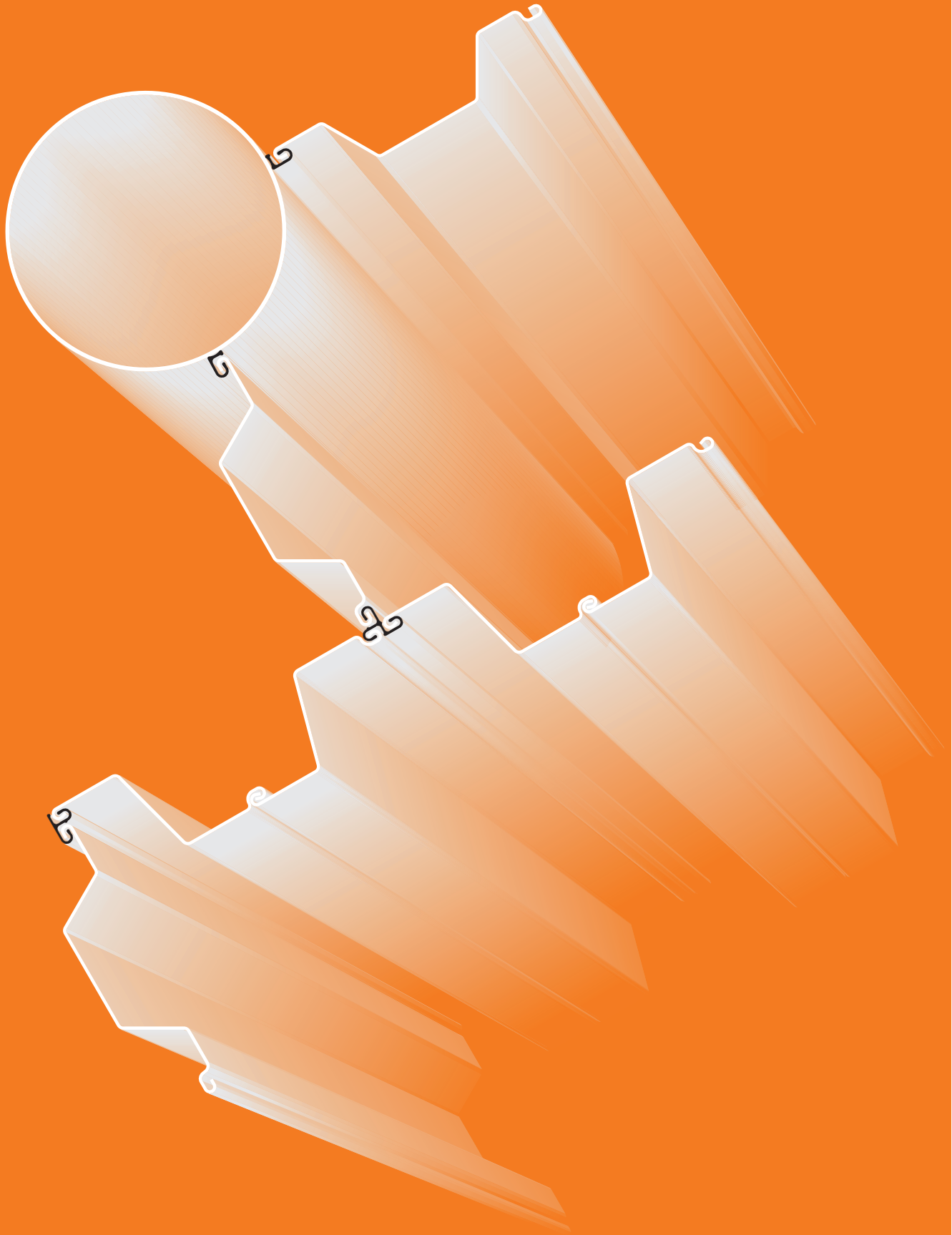
Caratteristiche

Qualità dell'acciaio:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~ 18,4 kg/m





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Overview
For Cold Formed

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Für Leichtprofile

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**Please note:**

Our profiles are designed to be compatible with the great majority of cold-formed piles available globally, however they may not be compatible with every pile: in some cases, we have "large" and "small" versions for maximum compatibility (please see pilepro.com for details).

**Bitte beachten Sie:**

Leichtprofile gibt es als U- und Z-Bohlen in verschiedenen Wandstärken und Schlossausführungen. Unsere Profile sind so gestaltet, dass sie mit einem Großteil der weltweit verfügbaren Bohlen kompatibel sind, jedoch nicht mit allen.

**Tener en cuenta lo siguiente:**

Los perfiles ligeros están disponibles en pilotes en U y en Z en distintos espesores de pantalla y modelos de cerramiento. Nuestros perfiles están creados de tal forma que son compatibles con la mayoría de pilotes disponibles en todo el mundo, aunque no con todos.

**Veillez noter:**

Il existe des palplanches en forme de madrier en U et en Z, en plusieurs épaisseurs de parois et avec différents logements pour serrure. Nos profilés sont faits de telle sorte que la plus grande partie est compatible dans le monde entier avec les madriers existants, mais pas avec tous cependant.

**Attenzione:**

I profili leggeri sono disponibili come palancole a U e Z in spessori diversi e con versioni differenti del gancio. La forma dei nostri profili è tale da essere compatibile con la maggior parte delle palancole sul mercato, tuttavia non con tutte.



CFC 90

For 90° corners with cold formed sheet piles
(as interlocks vary, specific swivel range is not stated, but some swivel should be expected)

Installation

1. Please review the proper interlocking examples that are listed.
2. Thread the connector into the interlock while the sheet pile is out of the ground.
3. Adjust the connector to the appropriate position.
4. Tack or spot-weld the connector in place. Typically, a ~250mm (~10") weld, attaching the connector to the sheet pile to the top is sufficient.
5. Drive/extract the sheet pile (with the connector attached) as you would normally.

Properties

Steel grade:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Weight:	~ 12.0 lb/ft



CFC 90

90° Eckverbindung
Für Leichtprofile

Einsatzgebiet

Erstellen von 90°-Eckverbindungen



Eigenschaften

Stahlgüten:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Gewicht:	~ 17,9 kg/m



CFC 90

Unión angular de 90°
Para perfiles ligeros

Ámbito de aplicaciones

Formación de uniones angulares de 90°

Propiedades

Calidades de acero:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Peso:	~ 17,9 kg/m



CFC 90

Raccords d'angles à 90°
Pour profilés légers

Domaines d'emploi

Fabrication de raccords d'angles à 90°

Caractéristiques

Nuances d'acier:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Poids:	~ 17,9 kg/m



CFC 90

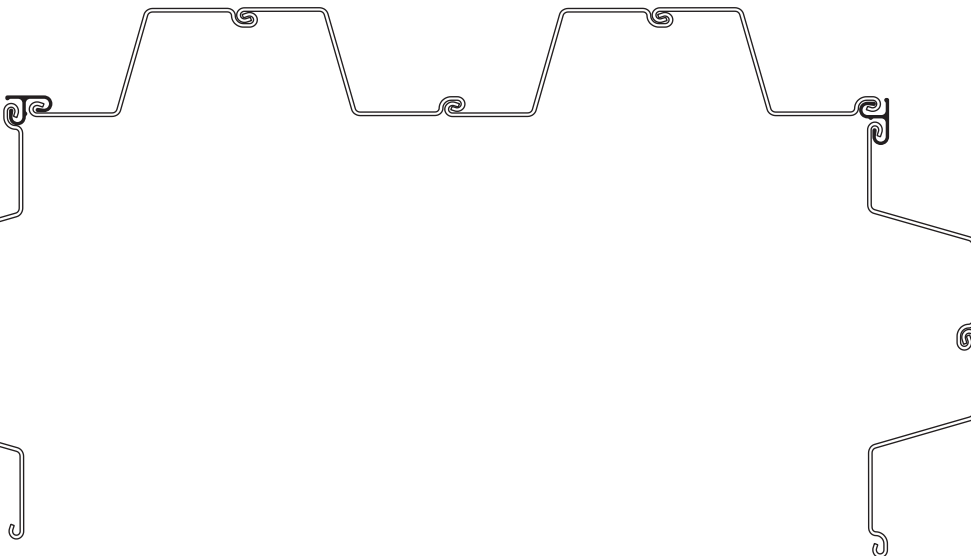
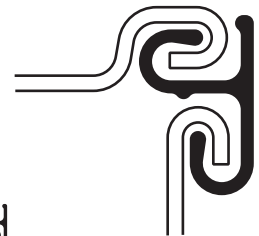
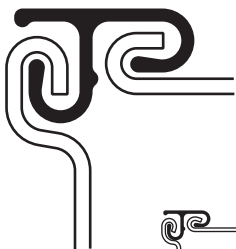
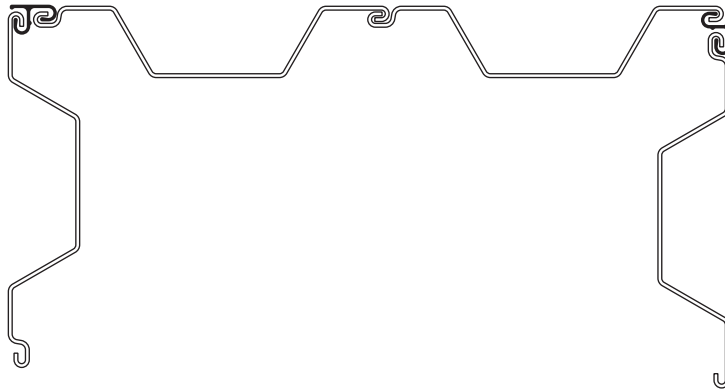
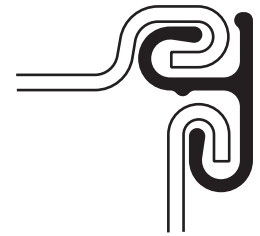
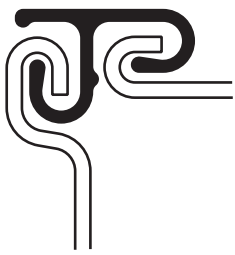
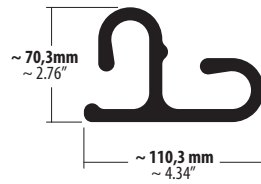
Connessione per angolo a 90°
Per profili leggeri

Campo di applicazione

Realizzazione di angoli a 90°

Caratteristiche

Qualità dell'acciaio:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Peso:	~ 17,9 kg/m





CF Tee



CF Tee

For T-corners, 90° corners with cold formed sheet piles (as interlocks vary, specific swivel range is not stated, but some swivel should be expected)

Installation

1. Please review the proper interlocking examples that are listed.
2. Thread the connector into the interlock while the sheet pile is out of the ground.
3. Adjust the connector to the appropriate position.
4. Tack or spot-weld the connector in place. Typically, a ~250mm (~10") weld, attaching the connector to the sheet pile to the top is sufficient.
5. Drive/extract the sheet pile (with the connector attached) as you would normally.

Properties

Steel grade:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Weight:	~ 17.07 lb/ft



CF Tee

Raccord en T, raccords d'angles à 90°
Pour profilés légers

Domaines d'emploi

1. Raccord de 3 rideaux de palplanches sans soudure
2. Fabrication de raccords d'angles à 90°

Caractéristiques

Nuances d'acier:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Poids:	~ 25,4 kg/m



CF Tee

T-Verbindung, 90° Eckverbindung
Für Leichtprofile

Einsatzgebiet

1. Verbinden von 3 Spundwänden ohne Schweißarbeiten
2. Erstellen von 90° Eckverbindungen



Eigenschaften

Stahlgüten:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Gewicht:	~ 25,4 kg/m



CF Tee

Connessione a T, connessione per angolo a 90°
Per profili leggeri

Campo di applicazione

1. Unione di 3 elementi senza necessità di saldatura
2. Realizzazione di angoli a 90°

Caratteristiche

Qualità dell'acciaio:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~ 25,4 kg/m



CF Tee

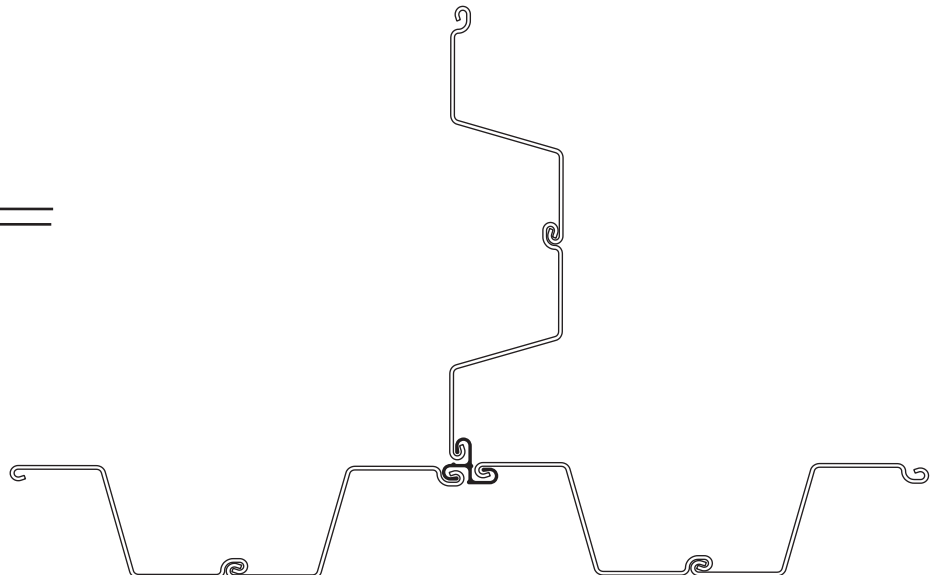
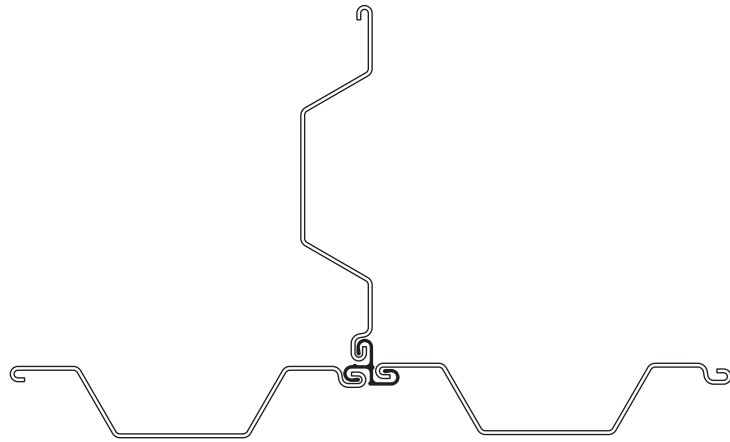
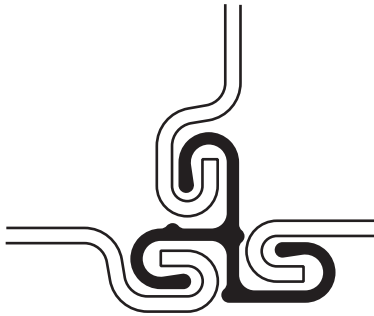
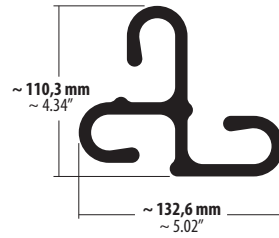
Unión en T, unión angular de 90°
Para perfiles ligeros

Ámbito de aplicaciones

1. Unión de 3 tablestacas sin realizar trabajos de soldadura
2. Formación de uniones angulares de 90°

Propiedades

Calidades de acero:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~ 25,4 kg/m





CF

COMBINED SHEET PILES

57



CF

For combined walls with pipes and cold formed sheet piles

Installation

1. The pipes are delivered with the connectors already attached.
2. First, install the king piles (pipes) as you would in any combined sheet pile wall application.
3. Grasp the sheet piling and thread between the already installed pipe piles.
4. Increase flexibility in the middle interlocks of the sheet piles, combined with the swing of the connectors, enable easier threading of the intermediate sheet piling.
5. All welding seams are a minimum ~6mm (~0.25").
6. Both sides have a continuous minimum tip and toe welding of ~500mm (~20").
7. Both sides are tack welded in the free length between tip and toe welding with 200mm/m (8"/yd). The distance from seam to seam is ~800mm (~31.5") or less.
8. In salt water, the water side is continuously welded on the whole pile length. Follow the instructions above for the reverse side of the pile, if it is not in contact with salt water.

Properties

Steel grade:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Weight:	~ 7.46 lb/ft



CF

Raccord à souder
Pour profilés légers

Domaines d'emploi

Fabrication d'angles, de départs/branchements et de rideaux mixtes (tubes + profilés légers)

Caractéristiques

Nuances d'acier:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Poids:	~ 11,1 kg/m



CF

Anschweißprofil
Für Leichtprofile

Einsatzgebiet

Erstellen von Ecken, Abzweigungen und Kombiwänden (Rohre + Leichtprofile)



Eigenschaften

Stahlgüten:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Gewicht:	~11,1 kg/m



CF

Profilo da saldare
Per profili leggeri

Campo di applicazione

Realizzazione di angoli, diramazione e pareti combinate (tubi + profili leggeri)

Caratteristiche

Qualità dell'acciaio:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Peso:	~ 11,1 kg/m



CF

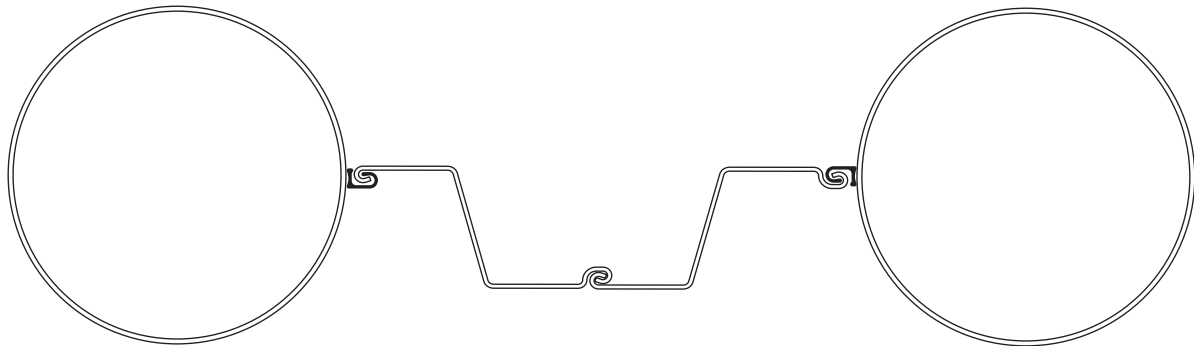
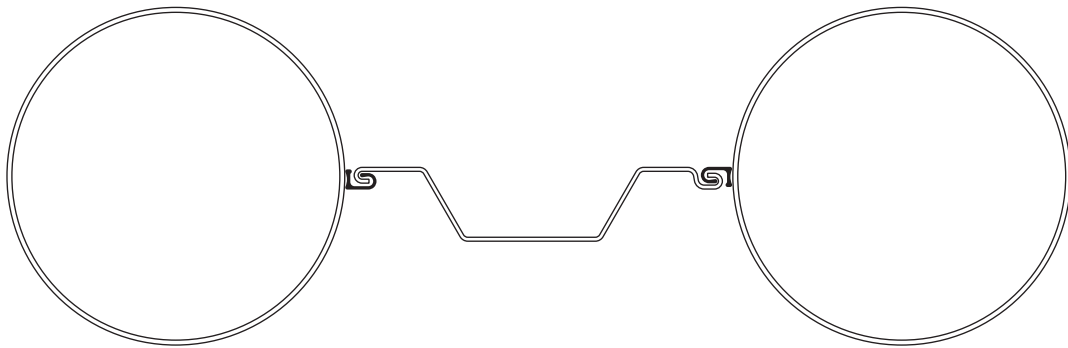
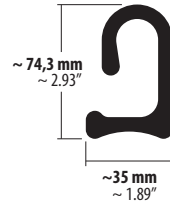
Perfil de soldadura
Para perfiles ligeros

Ámbito de aplicaciones

Formación de esquinas, bifurcaciones y pantallas combinadas (Tubos + perfiles ligeros)

Propiedades

Calidades de acero:	S355GP, S430GP ASTM A572 Gr. 50/60 ASTM A690 MARINER™ Steel
Peso:	~ 11,1 kg/m





V 20



V 20

For ~90° corners with cold formed sheet piles, **cold-formed sheet piles to Larssen U/Z/AZ** (as interlocks vary, specific swivel range is not stated, but some swivel should be expected)

Installation

1. Please review the proper interlocking examples that are listed.
2. Thread the connector into the interlock while the sheet pile is out of the ground.
3. Adjust the connector to the appropriate position.
4. Tack or spot-weld the connector in place. Typically, a ~250mm (~10") weld, attaching the connector to the sheet pile to the top is sufficient.
5. Drive/extract the sheet pile (with the connector attached) as you would normally.

Properties

Steel grade:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Weight:	~8.85 lb/ft

V 20

Anwendungen:

1. 90° Eckverbindung (durch die verschiedenen Kombinationen variieren die Schwenkbereiche in Abhängigkeit von der Schlossausbildung, vgl. V20 Larssen)
2. Übergangsprofil zwischen Leichtprofilen und AZ wie auch Larssen U- bzw. Z- Bohlen



Eigenschaften

Stahlgüten:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Gewicht:	~13,2 kg/m

V 20

Propiedades

Calidades de acero:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~13,2 kg/m

V 20

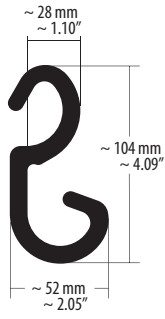
Caractéristiques

Nuances d'acier:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Poids:	~13,2 kg/m

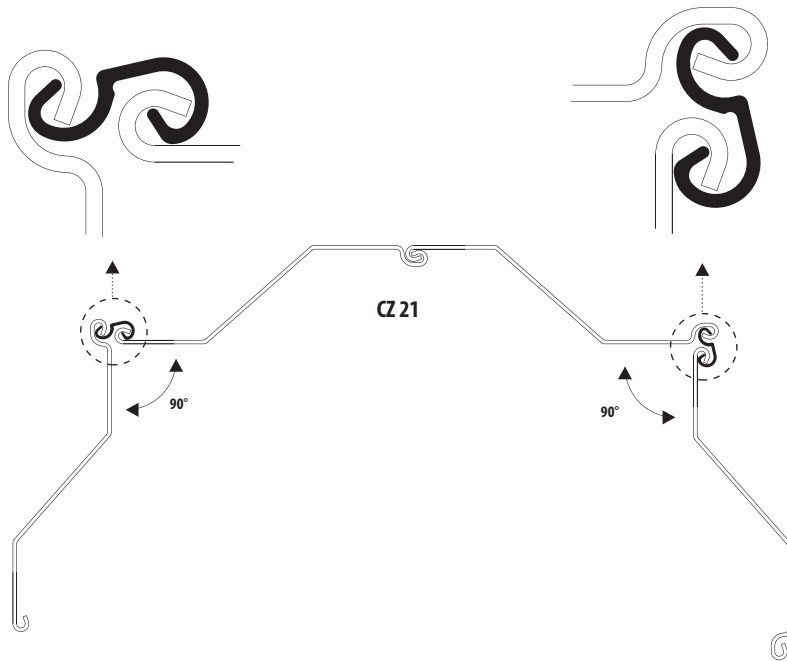
V 20

Caratteristiche

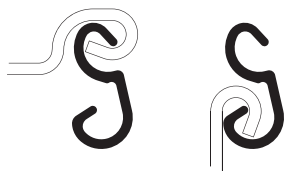
Qualità dell'acciaio:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~13,2 kg/m



CZ / SKZ to AZ transition straight-thru connection:

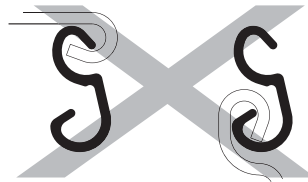


Proper interlocks:



(big-hook to small-hook)

Improper interlocks:



(big-hook to big-hook or small-hook to small-hook)



HZ 90

for Hoesch-Z (575 mm)



HZ 90

**90° corner connection,
suitable for single sheet pile driving**
For Hoesch Z piling; Profile width: 575 mm

Applications

1. 90° corner connections with a swivel range of ~ 45°
2. Transition profile for transition between Hoesch Z profiles (575 mm) and Larssen profiles
3. Weld-on profile with claw or knob termination
4. Suitable for circular driving
5. Compatible with V 20, VT and VTS

Properties

Steel grade:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Weight:	~ 9.92 lb / ft
Length:	as requested



HZ 90

**Raccord d'angle 90°,
approprié au fonçage individuel**
Pour Hoesch-Z: Largeur du profile 575 mm

Domaines d'emploi

1. Raccordement avec une plage de pivotement de ~ 45°
2. Raccord de transition pour raccorder des profilés en Z de Hoesch (575 mm) aux profilés Larssen
3. Comme angle à souder
(Extrémité au choix: taquet ou bouton)
4. Aptitude au fonçage circulaire
5. Compatible avec V 20, VT et VTS

Caractéristiques

Nuances d'acier:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Poids:	~14,8 kg/m
Longueur de fabrication:	sur demande



HZ 90

**90° Eckverbindung,
für Einzelrammung geeignet**
Für Hoesch-Z: Profilbreite 575 mm

Einsatzgebiet

1. Erstellen von Eckverbindungen mit einem Schwenkbereich von ~ 45°
2. Übergangsprofil von Hoesch-Z-Profilen (575 mm) zu Larssen-Profilen
3. Als Anschweißbeck
(wahlweise mit Abgang Klau oder Knopf)
4. Geeignet für Kreisrammungen
5. Kompatibel mit V 20, VT und VTS



Eigenschaften

Stahlgüten:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Gewicht:	~14,8 kg/m
Herstellungslänge:	auf Anfrage



HZ 90

**Connessione per angolo a 90°,
adatta per infissione di elementi singoli**
Per Hoesch a Z: Larghezza profili 575 mm

Campo di applicazione

1. Realizzazione di angoli con un range di ~ 45°
2. Profilo di passaggio da profili a Z Hoesch (575 mm) a profili Larssen
3. Angolo saldato (a scelta con uscita maschio o femmina)
4. Adatto per infissioni circolari
5. Compatibile con V 20, VT e VTS

Caratteristiche

Qualità dell'acciaio:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~14,8 kg/m
Lunghezza di produzione:	su richiesta



HZ 90

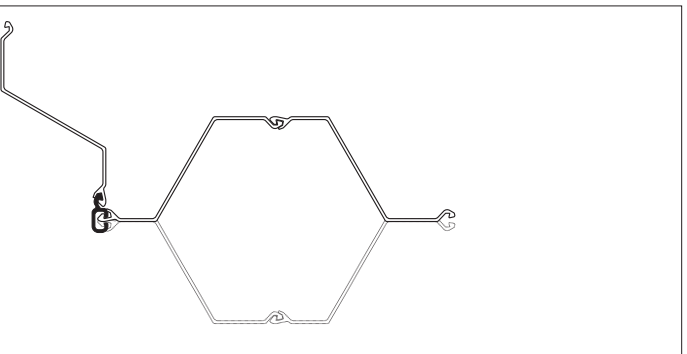
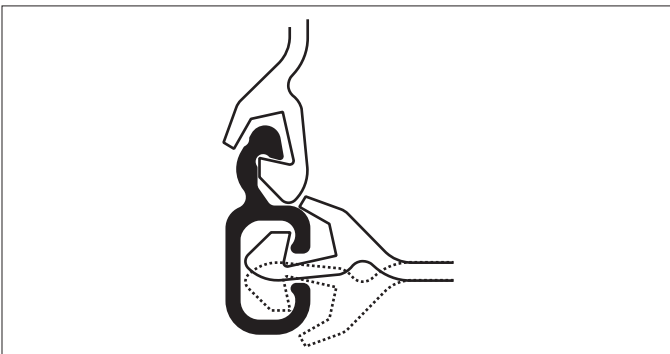
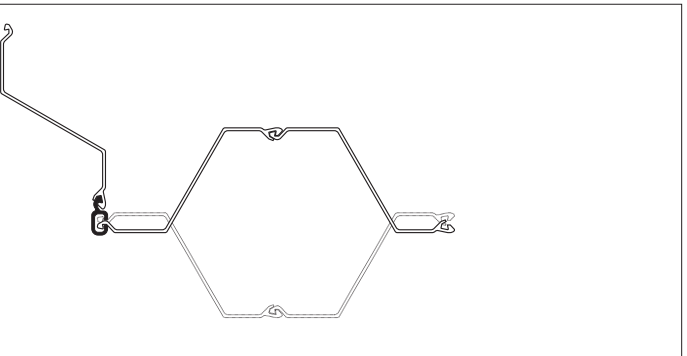
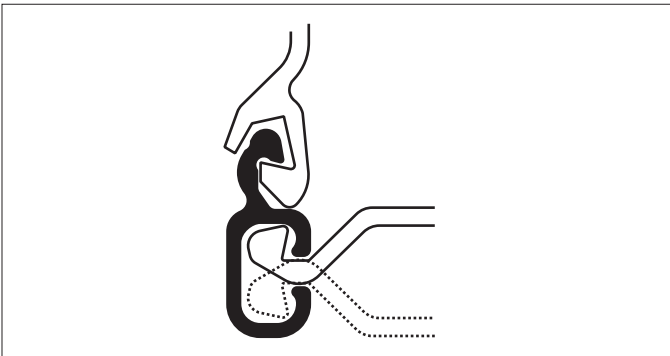
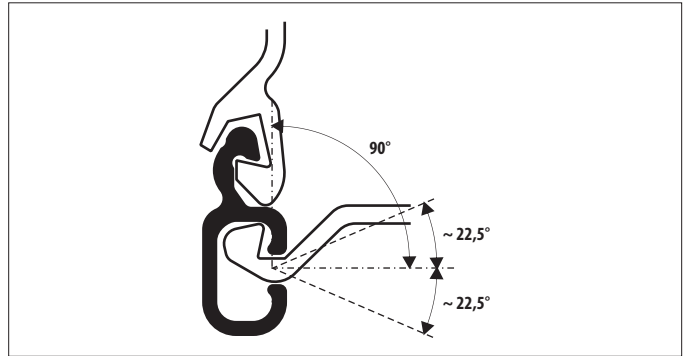
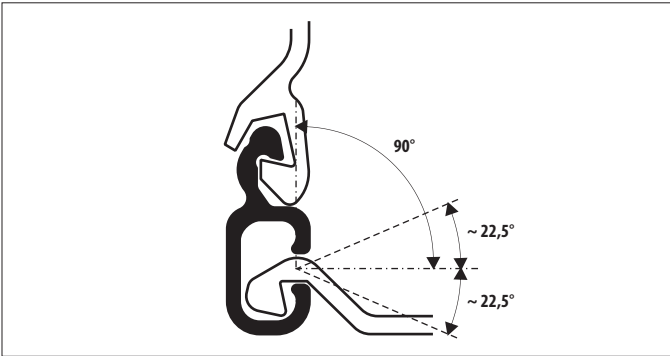
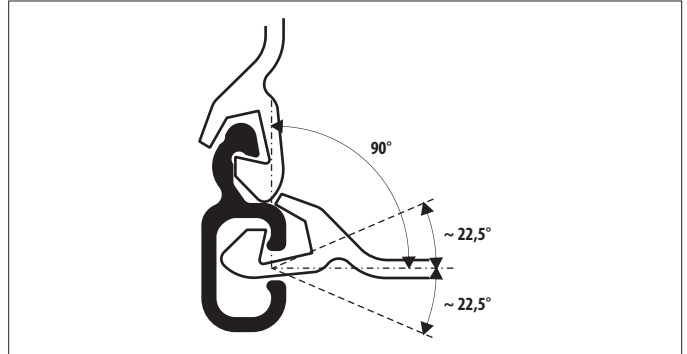
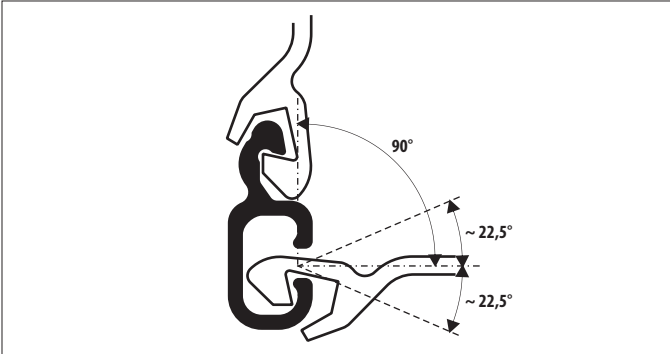
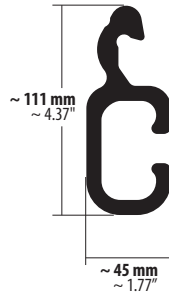
**Unión angular de 90°,
adecuada para hincado individual**
Para Hoesch-Z: Ancho de perfil 575 mm

Ámbito de aplicaciones

1. Formación de uniones angulares con un ángulo de giro de ~ 45°
2. Perfil de transición de perfiles en Z Hoesch (575 mm) a perfiles Larssen
3. Como codo soldado (opcional con salida pestaña de unión o sombrero)
4. Adecuada para hincado circular
5. Compatible con V 20, VT y VTS

Propiedades

Calidades de acero:	S355GP, S430GP
	ASTM A572 Gr. 50/60
	ASTM A690 MARINER™ Steel
Peso:	~14,8 kg/m
Longitud de fabricación:	bajo demanda





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