

# Pangea™

## Distal Posterolateral Fibula Plate

Design rationale



# Pangea Distal Posterolateral Fibula Plate

Design rationale

**stryker**

1.6mm K-wire hole



### Variable-angle screw holes

Circular holes that accommodate screws are universal; accepting non-locking screws and locking screws within a 30° cone

### Dedicated syndesmotic holes

Offset for fixation and recessed to accommodate screws or flexible fixation implants for the syndesmosis.



3.5mm screws

2.7mm screws

## Plate placement



- The distal portion of this plate should be placed so the 2.7mm cluster is centered over the Posterolateral metaphyseal fibula, just proximal to the peroneal groove (Confirm there is no overhang over the edge of the distal fibula)
- When placed correctly, the distal aspect of the plate should not contact the peroneal tendons
- This plate sits on the edge of the fibula, at 45° posterior from the lateral side
- Posterolateral plate placement helps to neutralize forces for SER (supination external rotation) fracture patterns, while screw hole placement allows for fixation of these fragments

## Pangea Distal Posterolateral Fibula Plate X-rays\*



\*Pangea Distal Fibula Operative Technique

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## Design rationale

### Fit

- Designed with the use of SOMA: Stryker Orthopedics Modeling and Analytics<sup>1</sup>
- SOMA includes a database with CT scans from hospitals across the world and state-of-the-art algorithms to mine the data for shape variability, bone density, and implant fit.<sup>1</sup>
- The SOMA bone database contains a collection of 5570 and growing clinical CT scans and contains over 34,600 3D bone models<sup>2</sup>
- Plate rotation allows for placement along the posterolateral shaft of the fibula while buttressing the distal fibula in spiral and oblique fracture patterns
- The distal cluster is tapered to reduce potential of soft tissue irritation and reduce plate prominence over the distal fibula
- The low profile 2.0mm distal end and 2.6mm shaft are designed to reduce the potential for soft tissue irritation
- Designed for buttressing of oblique or supination external rotation ankle fractures and to treat distal fibula fractures and the syndesmosis
- Pangea Distal Fibula plates were found to sit closer to the bone than competitive VA LCP plates, demonstrating superior fit<sup>1</sup>

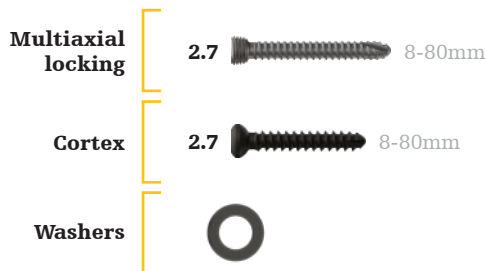
### Technical specifications

- Standard plate lengths: 4-15 hole (81-235mm)
- Thickness: 2.0mm distal, 2.6mm shaft
- Left and right anatomic plate options

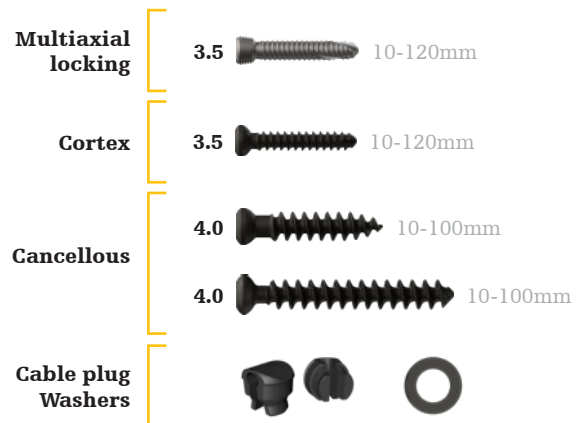
- **Drill bits for T8:**  
Ø2.0mm x 135mm (542000(S))  
Ø2.0mm x 175mm (542001(S))
- **Drill bits for T15:**  
Ø2.5mm x 135mm (542020(S))  
Ø2.5mm x 215mm (542021(S))

### Screw platform

#### T8 screw platform



#### T15 screw platform



#### References:

1. Internal Report № D0000262573, Rev AA, Selzach, Switzerland
2. Internal Report № D0000124129, Rev AC, Schönkirchen, Germany

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