

Soft Tissue

Spec Book



MTF Musculoskeletal
Transplant
Foundation

the better approach



How we measure our soft tissue allografts:

At MTF, we take precise care in accurately capturing and recording all dimensions and aspects of our allograft tendons. Two key dimensions of a soft tissue allograft are its *folded diameter* and its *diameter*. On the following page, we've illustrated our methods for determining those measurements.

To capture a folded diameter, we place a suture on top of the tendon mid-way down its length, then fold it in half over the suture. (*See figure 1.*) Using minimal force, we advance the front part of the tendon (nearest to the suture) into sequentially smaller diameter holes until the tendon is visible from the hole. (*See figure 2.*)

For measuring the unfolded diameter of the tendon, we take a similar approach to our measuring diameter method. Using a force clamp, we secure the end of the tendon and advance it through sequentially smaller holes in a gauge until the tendon fills the hole entirely. (*See figures 3 and 4.*)



Figure 1. The tendon is folded over a suture.

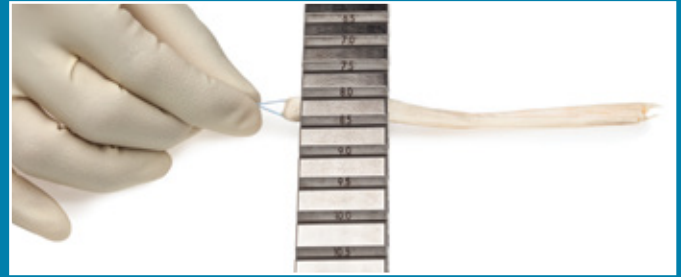


Figure 2. The tendon is advanced through the hole in the gauge for folded diameter measurement.




Figure 3. The tendon is advanced through the gauge unfolded for the diameter measurement.




Figure 4. The tendon is fitted through the gauge opening for the diameter measurement.

Allograft Tendons


Anterior Tibialis Tendon

 W L	Frozen Order No.	L	W	FD	D
	430335	22-38cm	6-12mm	6-12mm	3-12mm


Posterior Tibialis Tendon

 W L	Frozen Order No.	L	W	FD	D
	430340	22-38cm	6-12mm	6-12mm	3-12mm


Peroneus Longus Tendon

 W L	Frozen Order No.	L	W	FD	D
	430345	22-38cm	6-12mm	7-12mm	3-12mm

Semitendinosus Tendon

 W L	Frozen Order No.	L	W	D
	430350	26-38cm	3-10mm	3-12mm
	430355	22-25.9mm	3-10mm	3-12mm

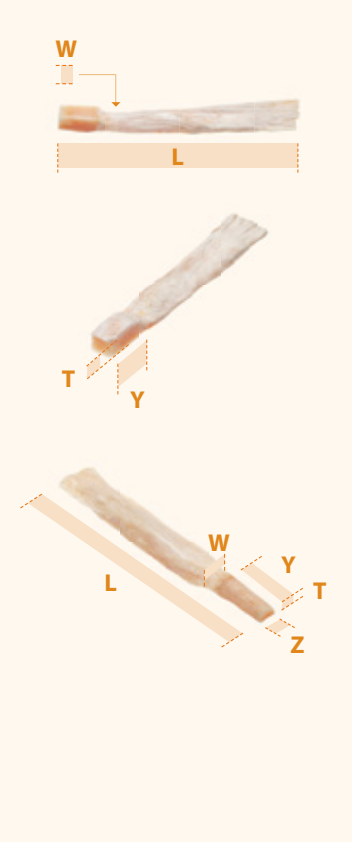
Gracilis Tendon

 W L	Frozen Order No.	L	W	D
	430300	22-38cm	3-10mm	3-12mm

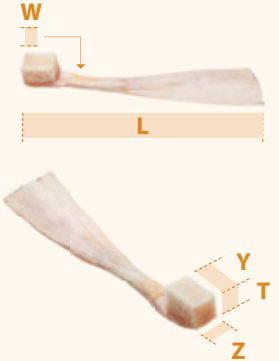
Allograft Tendons with Bone Blocks

Quadriceps Tendon

Frozen Order No.		L	W	Y	T	Z
430700	w/ Patella	16.5-25cm	10-20mm	24-40mm	7-25mm	-
430705	w/o Patella	16.5-25cm	10-20mm	-	-	-
430707	w/Shaped Patella	≥14.0-30cm	10-19mm	25-30mm	6-8mm	9.5-10mm



Achilles Tendon

		Frozen Order No.	L	W	Y	Z	T
	430200	w/ Calcaneus	19.5-38cm	10-20mm	20-40mm	13-30mm	16-35mm
	430207	w/ Shaped Bone Blocks	19.5-38cm	10-18mm	25-30mm	9.5-10mm	5.5-7.5mm
	430250	w/ Calcaneus	16-19.4cm	10-20mm	20-40mm	13-30mm	16-35mm
	430521	w/o Calcaneus	16-19.4cm	10-20mm	-	-	-

Key

	Without bone blocks	With bone blocks
L (Length)	Entire length of tendon	Entire length of tendon including the bone block(s)
W (Width)	Minimum width of the tendon.	Minimum width of the tendon
T (Thickness)	N/A	Thickness of the bone block and tendon measured anterior to posterior
Z	N/A	Minimum measurement of bone block measured medial to lateral
Y	N/A	Length of the bone block proximal to distal
X	N/A	Minimum distance between the tendon insertion point of the proximal tibia and distal patella bone blocks
Q	N/A	Length of quadriceps tendon from attachment to the patella to cut end
P	N/A	Minimum thickness of the patellar block (including tendon), measured anterior to posterior
X1	N/A	Minimum distance between the tendon insertion point of the proximal tibia and distal patellar blocks
Yp	N/A	Minimum distance proximal to distal of the patellar block
Yt	N/A	Minimum distance proximal to distal of the tibial block
FD	The minimum tunnel diameter through which the folded tendon can be inserted	N/A
D	The minimum tunnel diameter the unfolded tendon can be pulled through	N/A



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