



Arunda® System

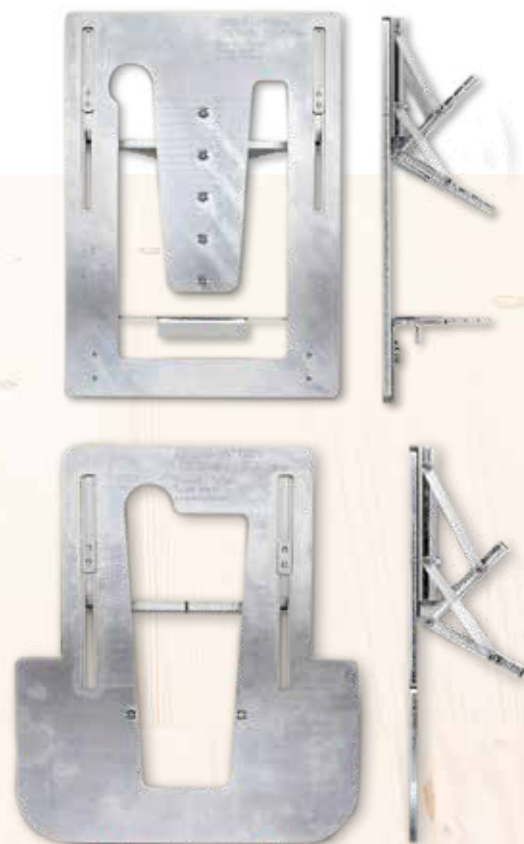
The Arunda® system

THE PRINCIPLE

Arunda® is a system for manually making dovetailed wood-to-wood joints to assemble timber frame structures.

All you need is a pair of Arunda® jigs (one for the tenon and the other for the mortise), a powerful Mafell router LO 65 Ec equipped with the special Arunda® cutter and some accessories.

There are several models available but only one size will be selected to fit your most commonly used timber widths. Keep in mind: The bigger the joint, the greater and better its resistance!



THE JIG MODELS

Chose your jig according to your current timber widths. This way, you will get joints with optimal resistance.



Class "B" with fixed 90° fences

For all current right-angled (or skewed) joints



NO. 160 (B)

Tenon on timber width:
150-300 mm (6" - 12")
Timber height: 90-400 mm (3 1/2" - 16")
Timber section: min. 150x90 mm (6" x 3 1/2")
max. 300x400 mm (12" x 16")



NO. 120 (B/N)

Tenon on timber width:
120-200 mm (4 3/4" - 8")
Timber height: 90-380 mm (3 1/2" - 15")
Timber section: min. 120x90 mm (4 3/4" x 3 1/2")
max. 200x380 mm (8" x 15")



Class "N" with tilting fences(+50°/90°/-50°)

For current or special joints, skewed or right-angled (90°)



NO. 80 (B/N)

Tenon on timber width:
80-140 mm (3 1/8" - 5 1/2")
Timber height: 90-330 mm (3 1/2" - 13")
Timber section: min. 80x90 (3 1/8" x 3 1/2")
max. 140x330 mm (5 1/2" x 13")



NO. 50 (B/N)

Tenon on timber width:
(40)45-100 mm (1 3/4" - 4")
Timber height: 90-330 mm (3 1/2" - 13")
Timber section: min. 40x90 (1 3/4" x 3 1/2")
max. 100x330 mm (4" x 13")



THE ADVANTAGES

Speed.

8 to 18 mortise/tenon joints per hour.

Ease of use.

Push-down dovetail assembly is very fast and easy. No need to pull apart the load-bearing beams to insert tenons.

Precision.

Double-cone self-tightening joints.

Flexibility.

Perpendicular or angled joints on floor joists or rafter (roof system)

Versatility.

Usable on a wide range of timber widths from 40 to 300 mm (1 3/4" to 12"), for new construction as well as for restoration work.

Time-saving.

Identical router bit setting to cut both mortise and tenon.

Quality.

Precise, reliable wood-on-wood joints.

Strength.

Workloads of up to 2'100 kg (4'620 lbs) per joint.

Mobility.

Just as easy to use in the work-shop as on the job site.

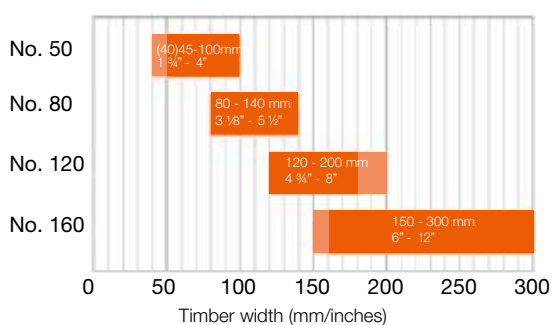
Economy.

A low-cost replacement for metal connectors. You buy Arunda only once.

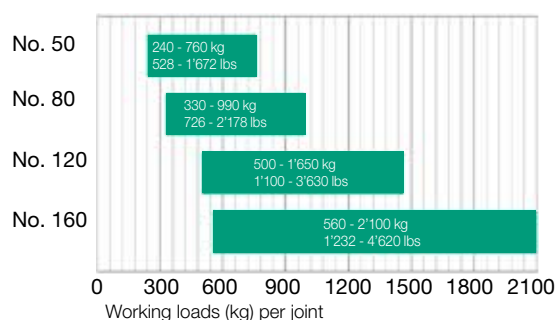
TIMBER WIDTHS AND WORKING LOADS TABLES

Timber width (mm/inches)

■ optimal ■ min./max.



Working loads (kg/lbs)



SYSTEM COMPARISON

between connection with:

	Metal connector	Arunda® System
Milling the joist	—	yes
Milling the rafter	yes	yes
Positioning the metal connector (by measuring or using the guide)	yes	—
Screwing (16 to 46 screws)	yes	—
Number of joints per hour	5 to 8 units/hour	8 to 18 units/hour
Speed + Ease of assembly: Scale from 1 (bad) to 10 (excellent)	6-7	9-10

Technical data and accessories



Arunda class B



Arunda class N

Technical Data

Tenon on timber width (Nr. 160)	6 - 12 in	-
Timber height (Nr. 160)	3 1/2 - 16 in	-
Timber section (Nr. 160)	6 x 3 1/2 - 12 x 16 in	-
Tenon on timber width (Nr. 120)	4 3/4 - 8 in	4 3/4 - 8 in
Timber height (Nr. 120)	3 1/2 - 15 in	3 1/2-15 in
Timber section (Nr. 120)	4 3/4 x 3 1/2 - 8 x 15 in	4 3/4 x 3 1/2 - 8 x 15 in
Tenon on timber width (Nr. 80)	3 1/8 - 5 1/2 in	3 1/8 - 5 1/2 in
Timber height (Nr. 80)	3 1/2 - 13 in	3 1/2 - 13 in
Timber section (Nr. 80)	3 1/8 x 3 1/2 - 5 1/2 x 13 in	3 1/8 x 3 1/2 - 5 1/2 x 13 in
Tenon on timber width (Nr. 60-1)	2 3/8 - 4 3/4 in	-
Timber height (Nr. 60-1)	max. 23 5/8 in	-
Timber section (Nr. 60-1)	max. 4 3/4x23 5/8 in	-
Tenon on timber width (Nr. 50)	1 15/16 - 3 15/16 in	1 15/16 - 3 15/16 in
Timber height (Nr. 50)	3 1/2 - 13 in	3 1/2 - 13 in
Timber section (Nr. 50)	1 3/4 x 3 1/2 - 4 x 13 in	1 3/4 x 3 1/2 - 4 x 13 in

Ref. No.

91A701 | Milling templates Arunda 50B Maxi
91A711 | Milling templates Arunda 50B Midi
91A702 | Milling templates Arunda 80B Maxi
91A712 | Milling templates Arunda 80B Midi
91A703 | Milling templates Arunda 120B Maxi
91A713 | Milling templates Arunda 120B Midi
91A704 | Milling templates Arunda 160B Maxi
91A714 | Milling templates Arunda 160B Midi
91A705 | Milling templates Arunda 60-1B Maxi
91A715 | Milling templates Arunda 60-1B Midi

91A706 | Milling templates Arunda 50N Maxi
91A716 | Milling templates Arunda 50N Midi
91A707 | Milling templates Arunda 80N Maxi
91A717 | Milling templates Arunda 80N Midi
91A708 | Milling templates Arunda 120N Maxi
91A718 | Milling templates Arunda 120N Midi

Delivery specification

1 pair of jigs
 1 burr milling cutter (Maxi)
 1 guide ring (Maxi)
 1 expensions plate (Maxi)
 1 positioning gauge (Maxi)
 2 pairs of blades (Maxi)
 1 wooden box

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Adapter for router bit

M12x1

Ref. No. **201575**



Arunda dovetail bit

Standard - 26 with reversible blades
and screw driver

Ref. No. **091430**



Arunda blade

Standard-26 reversible carbide
blade HM 5 pairs, skin-wrapped
Ref. No. **091431**



Guide ring Standard - 26

for LO 65 Ec + 2 screws
Ref. No. **093781**



Expansion plate

with screws

- Ø 240, for jigs 50B, 50N,
80B, 80N, GTD

Ref. No. **093782**

- Ø 280, for jigs 120B, 120N

Ref. No. **093783**

- Ø 290, for jigs 60-1B, 160B

Ref. No. **093784**



Positioning gauge

Standard 26 Trio Ref. No. **093785**



ARUNDA fast lever clamp

40x14 cm

Ref. No. **093786**



Adjustable female fence

50B
80B
120B
160B
50N
80N
120N

Ref. No. **093774**
Ref. No. **093775**
Ref. No. **093776**
Ref. No. **093777**
Ref. No. **093778**
Ref. No. **093779**
Ref. No. **093780**

In order to develop a better tool for carpenters, we at MAFELL often take a special approach: We change our point of view and completely reconceive the tool in essential parts. At the same time, we always keep in mind the future requirements of the woodworking trade.

From this way of thinking, paired with an outstanding material and processing quality, amazing solutions emerge again and again. For example, in terms of functionality and ease of use. It is our claim that you no longer have to think about your tools when doing your work. Simply because we at MAFELL have already done so extensively. After all, we have a common goal: the perfect job. Or in brief:

creating excellence

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