

Frame Extrusion Selection Guide

SELECTING T-SLOTTED ALUMINUM EXTRUSIONS

10 Series—1 x 1" and 1 x 2" sizes available. Recommended for light-duty applications such as door frames, small test stations, small guards, etc.

15 Series—1.5 x 1.5" and 1.5 x 3" sizes available. Recommended for both light- and heavy-duty applications such as large perimeter guards, workstations, machine bases, etc. Ultra-light extrusions (Nos. 5JB12 and 5JB14) should only be used on light-duty applications and should not be used to support heavy loads.

Extrusion profiles with a larger center bore (Nos. 1PEF2 and 1PEF3) are designed to handle the same types of application requirements, but can be used with T-Anchor fasteners (No. 1PED7). Require 1 counterbore into the extrusion, and offer a clean, less-visible method of joining 2 extrusions at a 90° angle.

20 Series—20 x 20mm and 20 x 40mm sizes available. Recommended for light-duty applications such as door frames, small test stations, small guards, etc.

40 Series—40 x 40mm and 40 x 80mm sizes available. Recommended for light- and moder-

ate-duty applications such as large perimeter guards, workstations, machine bases, etc.

SELECTING EXTRUSION FASTENING METHODS

T-Anchor Fastener—No. 1PED7 offers a strong and less visible method of joining 2 extrusions at a 90° angle. 1 counter bore is required. Keeps the T-slots of the extrusion open, allowing a panel to be inserted without requiring a panel notch to be cut. For use with 15 Series extrusions Nos. 1PEF2 and 1PEF3 only.

Anchor Fastener—10 Series (No. 5JB36) and 15 Series (No. 5JB38) are also used to connect 2 extrusions at a 90° angle, but require a larger counter bore to be drilled, and block a small portion of the extrusion T-slot requiring a panel notch to be cut if inserting a panel.

End Fastener—10 Series (No. 5JB40) and 15 Series (No. 5JB42) are also used to connect 2 extrusions at a 90° angle, but require an access hole to be drilled through 1 extrusion and an end tap to be drilled into the mating extrusion. This blocks a small portion of the extrusion T-slot requiring a panel notch to be cut if inserting a panel. Unlike the anchor fastener, infinite positioning is not available due to the access hole

requirement. A new access hole must be drilled if repositioning is necessary.

Machiningless Fastener—For use with 15 Series only. Light-duty method of joining 2 extrusions at a 90° angle. No machining required. Not recommended for moderate heavy-duty applications.

Joint Plates and Corner Brackets—No machining required. Connect extrusions using a joining plate or bracket with fastener kits.

SELECTING FASTENER KITS & T-NUTS

T-Nuts—Required when installing corner brackets, joining plates, butt hinges, floor mount feet, mesh retainers, and panel retainers. T-Nuts must be inserted into the ends of the extrusion T-slot due to their width.

Drop-In T-Nuts—Required when installing corner brackets, joining plates, butt hinges, floor mount feet, mesh retainers, and panel retainers. Drop-In T-Nuts can be inserted into the extrusion T-slot anywhere along the extrusion. Inserts T-nuts into a captive T-slot (a slot which is closed on each end due to another extrusion or accessory).