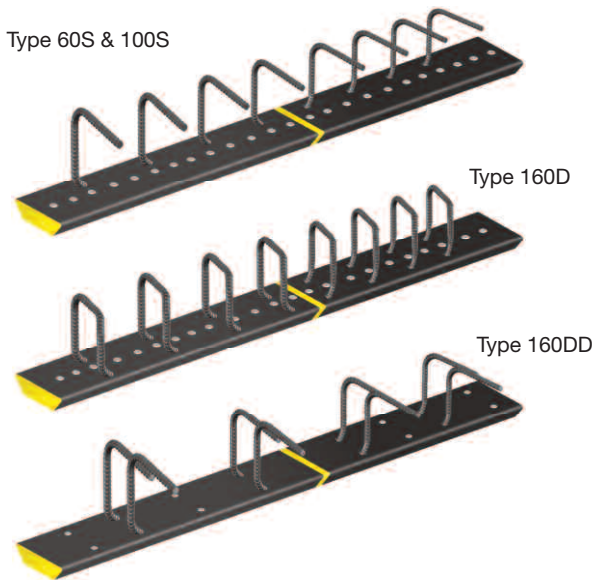


# Keyway Splice Box



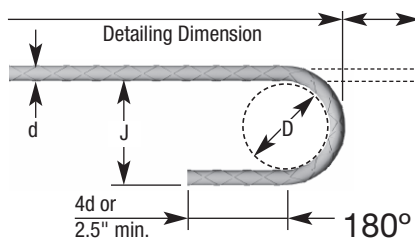
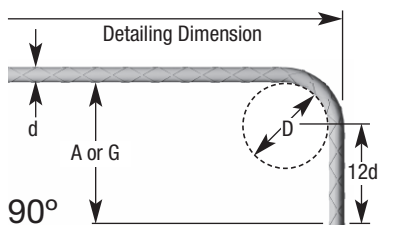
Keyway Splice Box is a non-mechanical lap splice connection system which replaces form-penetrating dowel bars at construction joints. It is achieved by partially housing rebendable reinforcement bar inside a dovetail shaped steel keyway box. The reinforcement bars, which extend from the box, and the box itself, develop an initial anchorage in the concrete. After the forms have been removed, the reinforcement bars in the box are straightened to become the anchorage in the new placement of concrete. The keyway box remains in the concrete to act as an interlocking keyway at the joint.

Keyway Splice Box is manufactured by Meadow Burke using domestic steel reinforcement. Reinforcement bar sizes typically range from #4 to #6. For larger reinforcement bar sizes we recommend the use of Keyway Coupler Box. Keyway Splice Box reinforcement bars are cut and bent into various configurations to satisfy varying project requirements. Custom size keyways and keyway lengths can be manufactured to help solve difficult reinforcement and forming problems.

Reinforcing Steel Properties			
Bar Diameter	A615 Grade 60	A706	Thermex Rebar Properties
Yield strength, minimum psi	60,000	60,000	60,000
Tensile strength, minimum psi	90,000	80,000	90,000
Elongation in 8" minimum %	9%	14%	9%

## Technical Information:

Meadow Burke fabricates reinforcement used in Keyway Splice Box to comply with all ACI standards regarding minimum bar bends, standard hook geometry, splice lengths, and standard hook development.



## Installation:

1. Secure Keyway Splice Box to inside of form using nails, screws, tie wire, etc. Tie protruding bars to reinforcement steel to assure proper anchorage. Pour concrete.
2. After pour, remove forms and Keyway Splice cover.
3. Re-bend (straighten) enclosed bars according to the recommended field bending procedure below.

## Field Rebending:

1. After the disposable cover is removed, the bars are to be easily pulled out by hand a maximum of 20° out of the keyway box.
2. A hickey bar (cheater bar) of a diameter just large enough to slide over the pre-bent bar is to be used to finish the procedure.
3. According to the attached sketch, slide the hickey bar (cheater bar) as far up the bar as possible and re-bend the bar approximately another 25° – 30°. Repeat this procedure 2-3 times more until the bar is exactly straight. DO NOT RE-BEND THE PRE-BENT BARS IN ONE MOTION!
4. Do not heat the bars for re-bending. We also do not recommend re-bending the bars in the field more than once.

Bar Size	D (inch)	180° Hooks		90° Hooks
		A or G	J	A or G
#3	2.25"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3.75"	7"	5"	10"
#6	4.5"	8"	6"	12"