



# aSa/Rebar System Typical Bar Bends

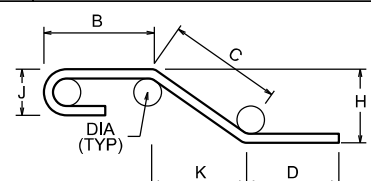
Applied Systems Associates, Inc  
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1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	
18	19	20	21	22	23
24	25	26	27	28	29
30	31	32	<p><b>* TYPE 15 &amp; S14 Complete and Partial Explanation</b></p> <p>A Complete set consists of a 'C', 'D', 'C', and 'E' dimensions. In the example shown there are 3 complete sets. (CMP = 3)</p> <p>Partial can be 0, 1, 2, or 3. Partials consist of a 'C', 'D', and 'C' dimension. In the example shown there are 3 partials. (PTL = 3)</p>		

- NOTES:**
- aSa Typical Bar Bends include only Types 1-32, T1-T17, S1-S15, and X, XL, XM, Y, YL, & YM
  - All dimensions are out-to-out of bar except "A" and "G" on Standard 180° and 135° hooks.
  - "J" dimension on 180° hooks to be shown only where necessary to restrict hook size, otherwise standard hooks are to be used.
  - Where "J" is not shown, "J" will be kept equal to or less than "H" on those bars. Where "J" can exceed "H", it should be shown.
  - "H" dimension stirrups to be shown where necessary to fit within concrete.

- Unless otherwise noted, DIA. "D" is the same for all bends and hooks on a bar.
- Where slope differs from 45° dimensions, "H" and "K" must be shown.
- Where bars are to be bent more accurately than standard bending tolerances, bending dimensions which require closer fabrication should have limits indicated.
- Figures in circles show types.
- For recommended DIA. "D" of bends, hooks, etc., see CRSI or ACI tables.
- Type S1-S15, T1-T17 apply to bar sizes #3 through #8.
- "J" dimension on Type T14, T16 is assumed to be equal to "K" if not specified.



**LIGHT BENDING** - All #3 and all Stirrups, Column Ties and #4 Thru #18 Bars that are bent >6 Points; Bent >1 Plane; Radius Bent with >1 Radius in any one bar, or a combination of Radius and other Bending (Radius Bending being defined as all bends having an Radius of 12" or more to inside of bar).

**HEAVY BENDING** - #4 thru #18 Bars that are bent <6 Points, Radius Bent to 1 Radius, and bending not otherwise defined.

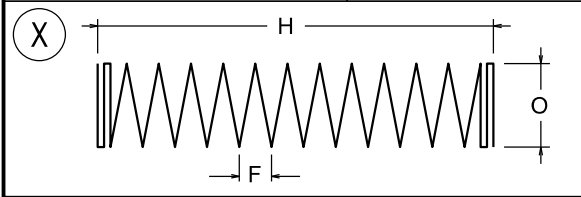


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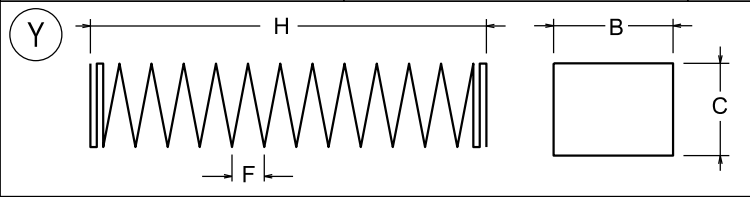
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<b>S1</b> 	<b>S2</b> 	<b>S3</b> 	<b>S4</b> 	<b>S5</b> 	<b>S6</b> 
<b>S7</b> 	<b>S8</b> 	<b>S9</b> 	<b>S10</b> 	<b>S11</b> 	<b>S12</b> 
<b>S13</b> 	<b>S14</b> 		<b>S15</b> 		
<b>T1</b> 	<b>T2</b> 	<b>T3</b> 	<b>T3A</b> 	<b>T4</b> 	<b>T5</b> 
<b>T6</b> 	<b>T7</b> 	<b>T8</b> 	<b>T9</b> 	<b>T10</b> 	<b>T11</b> 
<b>T12</b> 	<b>T13</b> 	<b>T14</b> 	<b>T15</b> 	<b>T16</b> 	<b>T17</b> 



**SPIRAL NOTES:**  
J = TURNS AT "F" SPACING  
K = EXTRA TURNS (HALF T.& B.)

**XL** PLAIN SPIRAL W/SPACERS LOOSE  
**XM** PLAIN SPIRAL W/SPACERS MOUNTED



**SPIRAL NOTES:**  
J = TURNS AT "F" SPACING  
K = EXTRA TURNS (HALF T.& B.)

**YL** PLAIN SPIRAL W/SPACERS LOOSE  
**YM** PLAIN SPIRAL W/SPACERS MOUNTED