

Autodesk® Robot™ Structural Analysis

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Type in the keyword to find:

section symbol

List Topics

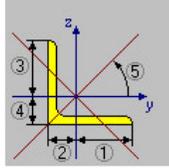
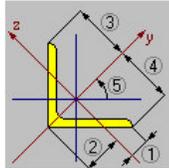
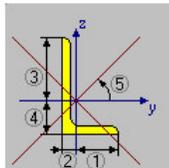
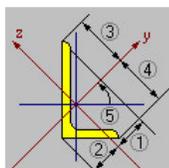
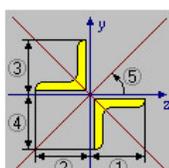
Select Topic to display:

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- Bracket
- Cables
- Calculation Results
- Code Check - Steel, Aluminum, Timber Mem
- Column Load Definition
- Columns
- Complex Section Definition
- Definition of a new type of compatibility
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- Thermal Loads
- Timber Bar Parameter Definition

Display

Section Shape Type

Section shapes were divided into several groups which, in most cases, are divided into subgroups.

Shape Type	Section Description
1	 <p>Equal leg angle in central axes parallel to legs</p>
2	 <p>Equal leg angle in central axes</p>
3	 <p>Unequal leg angle in central axes parallel to legs</p>
4	 <p>Unequal leg angle in central axes</p>
5	 <p>Two angles in cruciform shape in central axes parallel to legs</p>

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section symbol

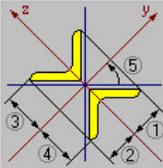
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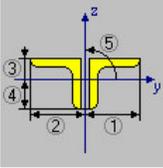
Display

7



Two angles in cruciform shape in central axes

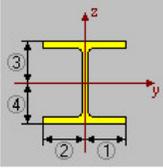
6, 8, 9



Two angles with legs back to back

6 - Two equal leg angles
8 - Two angles (with unequal legs) with longer legs back to back
9 - Two angles (with unequal legs) with shorter legs back to back

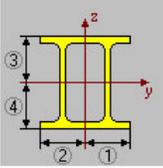
10-15, 20-25, 30



I-shapes

10-12 - Thin-walled flange and web of similar length (HEA, HEAA, HEB)
13, 14 - Thick-walled flange and web of similar length (HEC, HEM)
15 - Large section with narrow flange and high thick-walled web (HER)
20-24 - Web approximately twice longer than flange, thin walls (IPE, IPEA, IPEO, IPER)
25 - Identically as 20-24, with oblique flanges (IPN)
30 - Identically as 15, welded (PRS)

16-19



Two welded I shapes

16, 17 - Two I-sections of similar web and flange length (HHEA, HHEB)
18 - As above, thick-walled (HHEM)
19 - Two I-sections with webs longer than flanges (IPE)

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section symbol

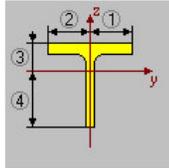
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26-29



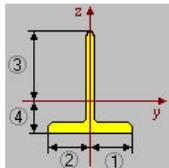
T-shapes

26, 27 - Flange approximately twice longer than web (HEA, HEB halves)

28 - As above, thick-walled (HEM halves)

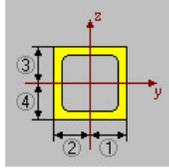
29 - Web and flange of similar length (IPE halves)

32,33



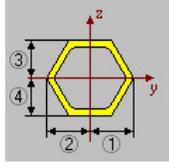
T-shape

31



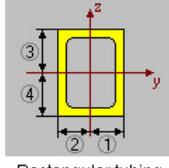
Square structural tubing

34



Hexagonal structural tubing

35



Rectangular tubing

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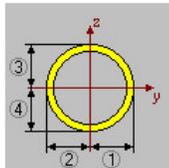
section symbol

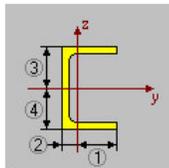
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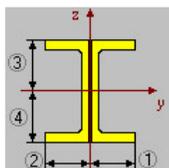
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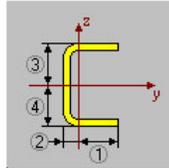
Display

36  Pipe

37, 38  Channels
37 – Straight flanges
38 – Oblique flanges

39, 40  Two channels back to back
39 – Straight flanges
40 – Oblique flanges

41 Solid rectangular section (recognized by the program to be a timber section)

42  Cold-bent channel

43 Solid rectangular section (recognized as a steel section)

44 Solid circular section

45 

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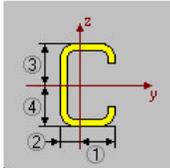
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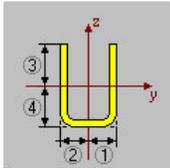
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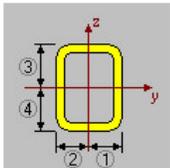
44 Solid circular section



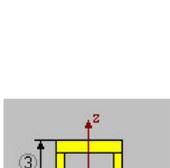
45 Half-closed channel



46 U-type rounded section

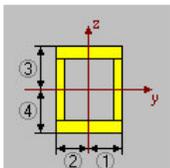


47 Rectangular pipe - rounded

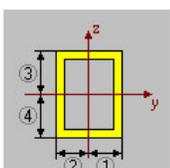


User-defined sections:

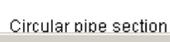
91 Box section



92 Rectangular pipe section



93 Circular pipe section



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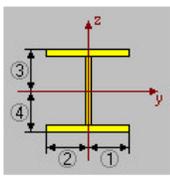
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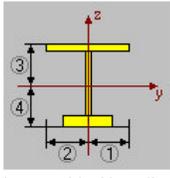
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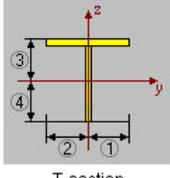
93 Circular pipe section



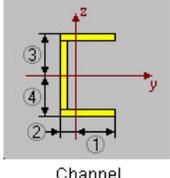
94 Symmetrical I-section



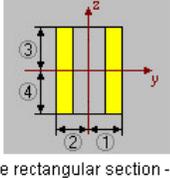
95 Asymmetrical I-section



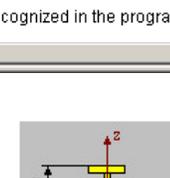
96 T-section



97 Channel



99 Double rectangular section - timber



100 Solid circular section (recognized in the program to be a timber section)

Reinforcement Edition - RC Beams and Col

Section Databases

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Short Results

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Solid section

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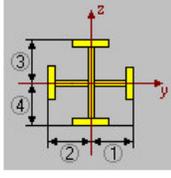
Steel section

Stirrup Arrangement - RC beams

Thermal Loads

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Cross section