# **Gusset Plate Partial Shear Planes**

Applies to the following products:

- BrDR, versions prior to 7.7
- BrR, versions prior to 7.7

## Description

Prior to version 7.7, the input tab for gusset plate partial shear planes was misunderstood by some engineers, resulting in incorrect data entry. This tab contained shear plane directions that were either horizontal or vertical, and the F1 Help noted that horizontal corresponded with the smaller angle to the adjacent member and vertical corresponded with the other angle. To avoid confusion, descriptions in both the input tab and F1 Help will use the same terminology.

The shear plane directions now are referred to as Smaller Angle Partial Plane and Larger Angle Partial Plane. Smaller Angle Partial Plane should be selected for the plane that forms the smallest angle with the selected compression member and Larger Angle Partial Plane should be selected for the other plane adjacent to the selected compression member.

Refer to the following pages for details.

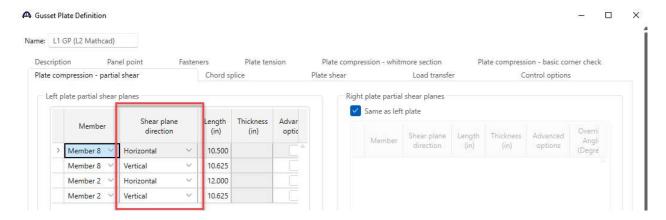
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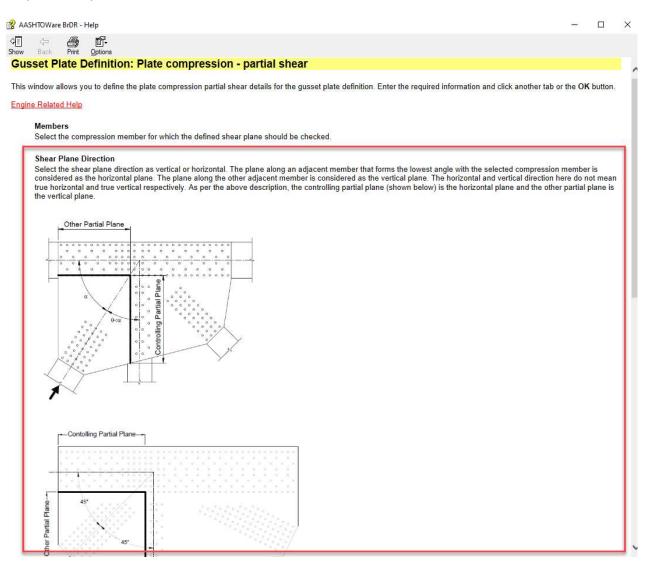
**DESIGN AND RATING** 



#### Input window prior to version 7.7:



#### Help window prior to version 7.7:



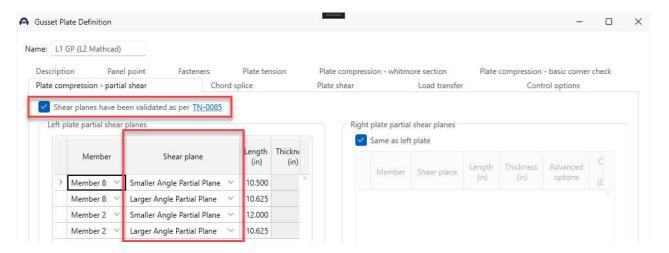
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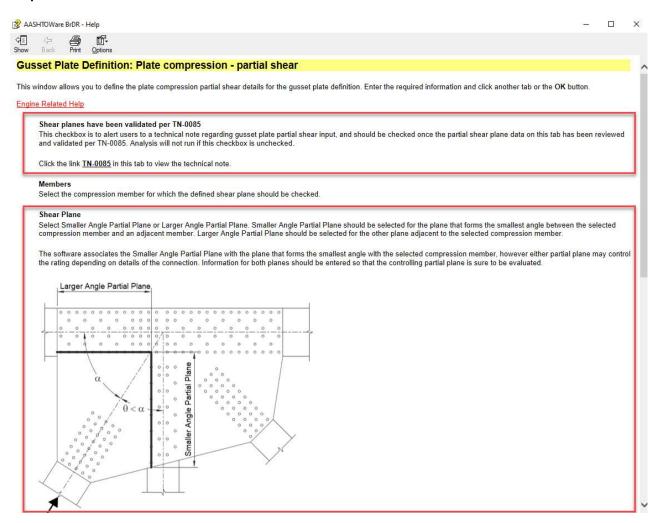


#### Input window in version 7.7:

**DESIGN AND RATING** 



#### Help window in version 7.7:



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### Workaround

There is no workaround to this issue. Users must verify that entered data is correct and check the box "Shear planes have been validated as per TN-0085" confirming that the entered data has been validated. The analysis will not run if this checkbox is not checked.

# **Long-term Resolution**

The data inputs and help window have been revised to use consistent terminology.

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