**BEAM OR GIRDER SUSPENDER DESIGN TABLE**

**REACTION** | **PIN DIA.** | **LINK PLATE** | **WEB**
---|---|---|---
80 | 4" | * | 1"
100 | 4" | * | 1/4"
120 | 4" | * | 1/2"
140 | 4" | * | 1/2"
157 | 5" | * | 1/2"
202 | 5" | * | 2"

**ALLOWABLE STRESSES (P.S.I.)**

- **BENDING** = 40,000
- **SHEAR** = 20,000
- **BEARING** = 20,000
- **TENSION** = 27,000

* LINKS PLATES SHALL BE DESIGNED ACCORDING TO THE CURRENT AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 10.

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**NOTE:**

The diagram illustrates a clip link plate on outside of fascia stringer only.

The table details the reaction in kips, pin diameter, link plate dimensions, and web thickness for various reactions.

- **REACTION**: The allowable stresses are specifically calculated for bending, shear, bearing, and tension.

- **PIN DIA.**: The pin diameter is specified as 4" or 5" for different reactions.

- **LINK PLATE**: The link plate dimensions are represented by "B" and "C" dimensions, with different values for each reaction.

- **WEB**: The web thickness is also listed for each reaction, ranging from 1" to 2 1/4".

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**PREPARED BY**

**DESIGN SUPPORT AREA** 8.14.02