

[illegible]

# UNION DINTEL BARRA SIMPLE

## D4 - CAI 100x80x9

Technical drawing of a simple bar bracket (Union Dintel Barra Simple) for a D4 connection. The drawing includes three views: front, side, and top. The front view shows a bracket with a total height of 70.0 and a base width of 30.0. The side view shows a bracket with a total width of 30.0 and a height of 70.0. The top view shows a bracket with a total length of 13.0 and a width of 30.0. The drawing includes dimensions for the bracket's thickness (10.0), the distance from the base to the top of the bracket (70.0), and the distance from the side to the top of the bracket (30.0). The drawing also includes dimensions for the bracket's width (30.0) and length (13.0). The drawing is labeled 'D4 - CAI 100x80x9'.

# UNION PILAR VIGA

The drawing illustrates the connection between a vertical column and a horizontal beam. The main components are labeled as IPE 300.

**Dimensions and Hole Placement:**

- Top View (Front):** Shows the beam's cross-section with two vertical holes. The distance between the hole centers is 60. The hole diameter is 35. The distance from the hole center to the nearest edge is 6.0. The total width of the beam is 130. The distance from the hole center to the outer edge is 85.
- Side View:** Shows the column's cross-section with two horizontal holes. The distance between the hole centers is 60. The hole diameter is 35. The distance from the hole center to the nearest edge is 6.0. The total width of the column is 130. The distance from the hole center to the outer edge is 85.
- Isometric View:** Shows the 3D assembly of the beam and column, highlighting the yellow gusset plate used for reinforcement.

# UNION DE EMPALME PILAR

Technical drawing of a column splice union (UNION DE EMPALME PILAR) for IPE 300 beams. The drawing includes a top view, a side view, and a 3D perspective view.

**Top View:**

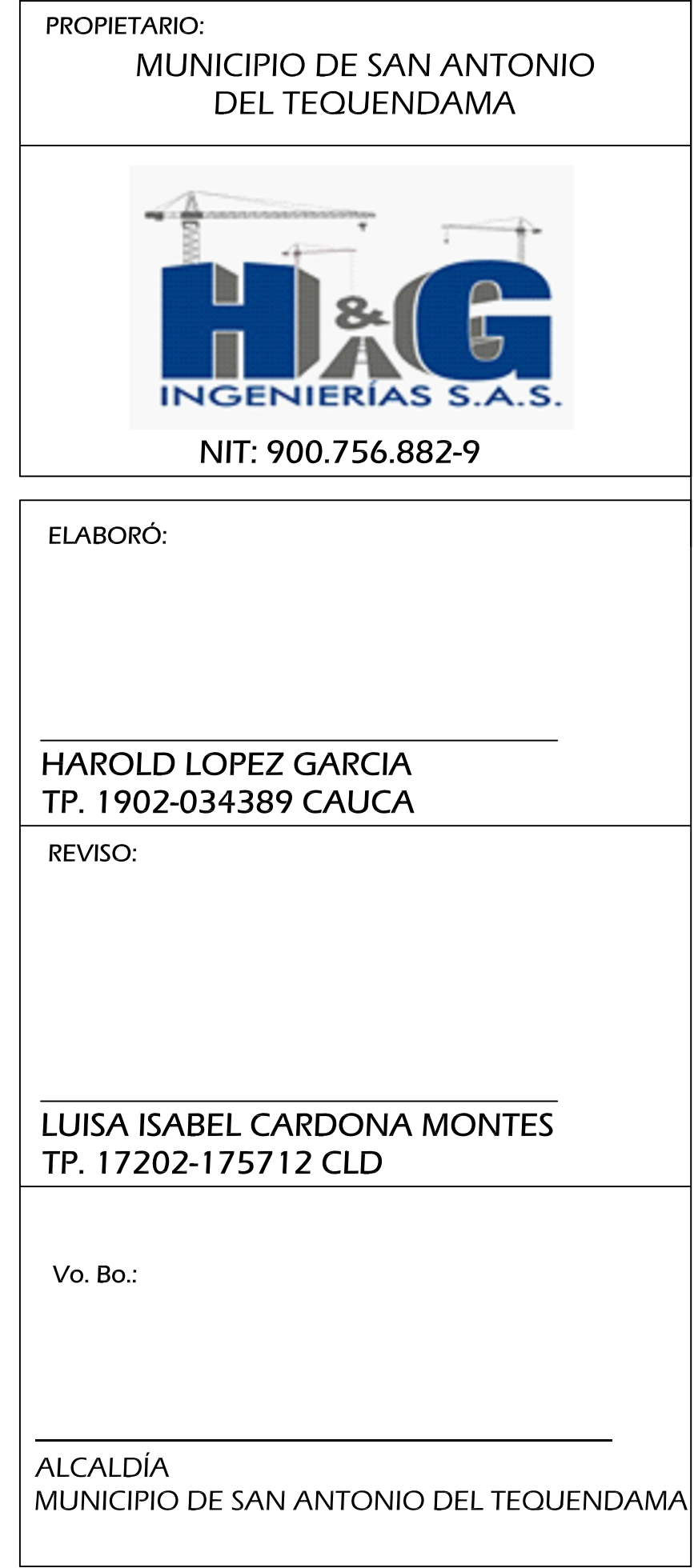
- Central plate dimensions: 370 x 245.
- Outer plate dimensions: 390 x 245.
- Bolt patterns and spacing: 40, 55, 55, 40.
- Dimensions 150x150 are indicated for the beam flanges.

**Side View:**

- Shows the IPE 300 beams with dimensions 150x150.
- Dimensions 150x150 are indicated for the beam flanges.

**3D Perspective View:**

- Shows the assembly of the beams and plates.



**OBJETO:**

**CONSULTORÍA PARA LA ELABORACIÓN DE ESTUDIOS Y DISEÑOS PARA EL MANTENIMIENTO Y REPOTENCIACION DEL PUENTE SANTA HELENA SOBRE EL RIO BOGOTA, VEREDA QUEBRADA GRANDE MUNICIPIO SAN ANTONIO DEL TEQUENDAMA**

PROYECTO:  
REPOTENCIACIÓN PUENTE SANTA HELENA

CONTIENE:  
DETALLES ESTRUCTURALES

**CONVENCIONES**

|                                                                                       |                |
|---------------------------------------------------------------------------------------|----------------|
|  | PARAMENTO      |
|  | CERCA          |
|  | BORDE VIA      |
|  | CURVA DE NIVEL |
|  | POZOS          |
|  | SUMIDERO       |
|  | POSTE          |

FECHA: OCTUBRE DE 2025

|               |            |
|---------------|------------|
| ESCALA:       | PLANO No.: |
| LAS INDICADAS | EST -002   |