

The drawing includes the following components and dimensions:

- Cross-section (Sección transversal):** Shows a central shaft labeled "Redondo $\varnothing 12$ " passing through a bracket. The bracket is secured with a nut and washer, labeled "Ojal 16x28". The nut is specified as "2 x ISO 4032-M12-5". The material of the bracket is "ISO 7089-12-200 HV". Surface finish symbols $\sqrt{6.5}$ are indicated on the shaft and bracket surfaces. A dimension of 10 is shown for the bracket's thickness at the shaft location.
- L-shaped Bracket Dimensions:**
 - Top View:** Shows a rectangular base with a width of 65 and a height of 60. A central hole has a diameter of 12. The distance from the hole center to the bottom edge is 30, and to the right edge is 14. The total width of the bracket is 32.5.
 - Side View:** Shows the L-shape with a vertical leg of height 60 and a horizontal leg of width 48. The thickness of the legs is 8. The distance from the hole center to the top edge of the vertical leg is 14.
- Label:** "L60x8" is placed near the side view.

Tipo 41

The drawing illustrates a mechanical assembly labeled 'Tipo 41'. It includes a cross-sectional view on the left and two detail views on the right.

Cross-section view (Sección transversal): Shows a central component labeled 'Redondo $\varnothing 12$ ' (Round $\varnothing 12$) passing through a hole in a plate labeled 'Ojal 16x27' (Eyelet 16x27). The plate is secured by two bolts labeled '2 x ISO 4032-M12-5'. The bolts are shown in a cross-section with a hardness specification of 'ISO 7089-12-200 HV'. The plate has a thickness of 8.5 mm. The bolts have a length of 65 mm.

Detail views: Two views of the eyelet (Ojal) are provided. The top view shows a square shape with dimensions 65 mm by 65 mm. The bottom view shows a circular hole with a diameter of 16 mm and a thickness of 27 mm. The side view shows the eyelet's profile with a height of 60 mm and a width of 48 mm.

Viga (a): detalle de la cartela (1/2 IPE 300)

Viga (b): detalle de la cartela (1/2 IPE 300)

Viga (a): detalle de la cartela (1/2 IPE 300)

Viga (b): detalle de la cartela (1/2 IPE 300)

The technical drawing consists of three parts:

- Sección A - A**: A vertical cross-section of the roof structure. It shows two IPE 300 beams connected by a central gusset plate. The section is labeled "Viga (b) IPE 300" at the top and "Cartela 175x625x11 12,5 1/2 IPE 300" at the bottom. Dimensions include 252 mm for the beam height and 251 mm for the gusset thickness.
- Alzado**: An elevation view of the roof structure. It shows a trapezoidal shape with a central vertical axis. The top edges are labeled "Viga (a) IPE 300" and "Viga (b) IPE 300". The bottom edges are labeled "Cartela 175x625x11 12,5 1/2 IPE 300". A slope indicator shows a 16% rise over a 6.3m run.
- Sección B - B**: Another vertical cross-section of the roof structure, similar to Section A-A. It shows two IPE 300 beams connected by a central gusset plate. The section is labeled "Viga (a) IPE 300" at the top and "Cartela 175x625x11 12,5 1/2 IPE 300" at the bottom. Dimensions include 252 mm for the beam height and 251 mm for the gusset thickness.

Rigidizadores y - y ($e = 6 \text{ mm}$)

Rigidizadores $y - y$ ($e = 6 \text{ mm}$)

Pilar
180 - B

A A

Placa base
350x350x15




Vista lateral

Technical drawing of a base plate (Placa base) for a column. The plate is 350x350x15 mm. It features a central I-beam profile. Four anchor bolts (Pernos de anclaje) are shown, with dimensions indicating a 50 mm offset from the edges and a 290 mm spacing between them. A detail view shows a bolt with a 16 mm diameter.

Sección A – A

Diagrama de detalle de la conexión entre la placa base y el mortero de nivelación. Se muestra una sección transversal de la placa base (15 mm) y el mortero de nivelación (20 mm). El mortero se aplica sobre la placa base y se compacta con una herramienta (martillo) para asegurar la adherencia. El hormigón (HA-30, $Y_c = 1.5$) se vierte sobre el mortero y se compacta con una herramienta (martillo) para asegurar la adherencia. El diagrama indica una altura de 400 mm para el mortero y una anchura de 80 mm para la placa base. Se menciona la orientación del anclaje al centro de la placa.

Anclaje de los pernos $\varnothing 16$,
B 500 S, $Y_s = 1.15$ (corrugado)

TFG: NAVE INDUSTRIAL PARA TALLER Y OFICINAS. FUENLABRADA			
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