Multi-purpose panels

The multi-purpose panel can be used to form pilasters, corners (Fig. 16.1), columns, bridge abutments and connections to existing walls (Fig. 16.6). The panels have multi-adjustment profiles (Fig. 16.4) for mounting column clamps (Fig. 16.3) or ties.

The multi-purpose panel can be used as a standard 2.5' panel, as the tie holes are not yet drilled. However, the panel comes with pilot holes predrilled on the backside of the panel for exact position of selected tie holes. For drilling this hole a 1" size bit is required.

The 9' panels have 3 multi-adjustment profiles (Fig. 16.4), so you will need 3 column clamps. The 6' and 4' panels have 2 profiles and, therefore, require 2 clamps. The 3' panel has only 1 multi-adjustment profile and requires only 1 column clamp.

To tighten the column clamp an articulated flange nut 120 (15 mm / 5/8" thread) is required.

Another possibility to connect two multi-purpose panels with each other is to use the ML-tensioning screw (Fig. 16.5)
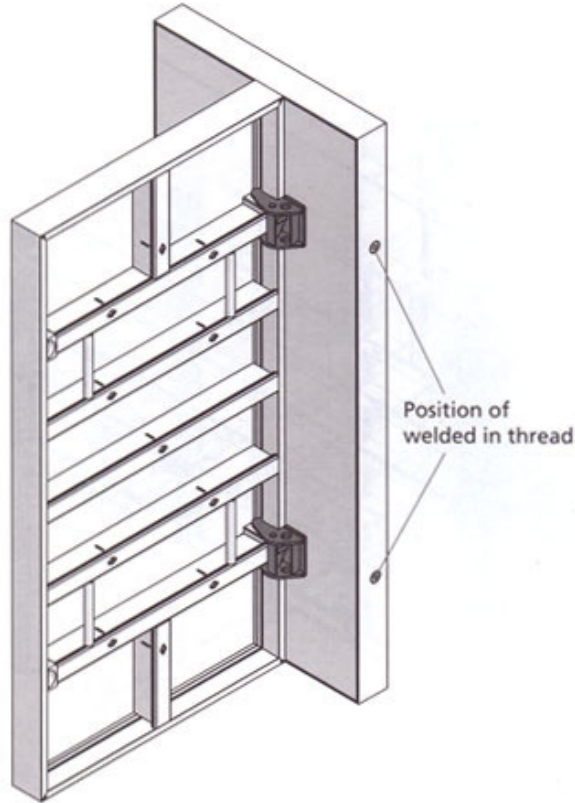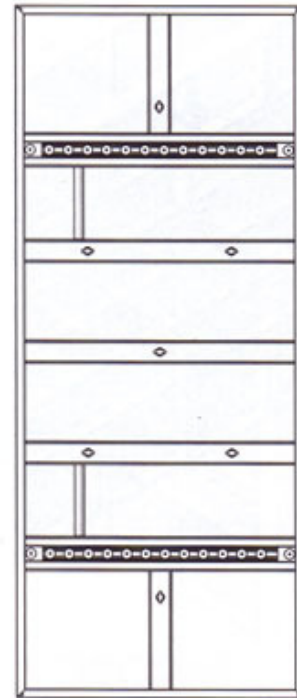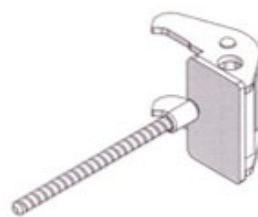
Fig. 16.1

Position of welded in thread

Fig. 16.2

Fig. 16.3: ML-column clamp

2'-6"

1.5" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2" 2" 3" 1.5"

The diameter of the holes in the aluminum profile is 1 1/16"
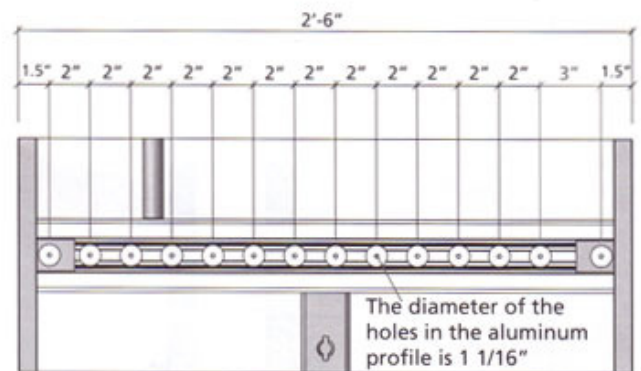
Fig. 16.4: Multi-adjustment profile

Fig. 16.5: ML-tensioning screw
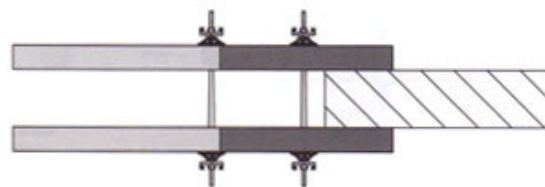
Fig. 16.6

Description	Ref.-No.
ML-multi-purpose panels	
9'x2.5'	**22-500-25**
6'x2.5'	**22-501-25**
4'x2.5'	**22-502-25**
3'x2.5'	**22-503-25**

Columns with multi-purpose panels

The multi-adjustment profiles in the multi-purpose panel allow forming columns in increments of 2" in two different ways depending on the position of the panel.

When using the tensioning screw, the sizes can range from 1" to 23" (Fig. 17.1) as well as from 2" to 24" (Fig. 17.2).

When using the column clamp, the sizes can range from 1" to 21" (Fig. 17.3) as well as from 2" to 22" (Fig. 17.4) .

The admissible concrete pressure is of 1,350 psf. for both types.
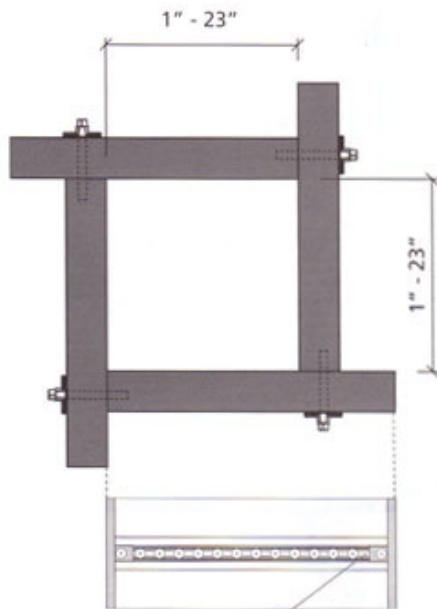
Fig. 17.1   Elevation, panel placed in the way that the 3" distance is on the right side; panel configuration : counterclockwise
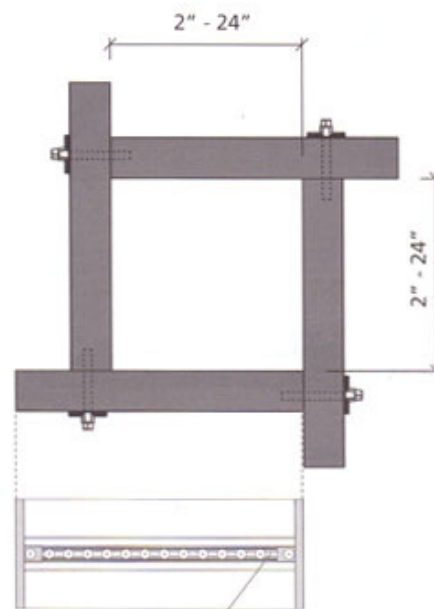
Fig. 17.2   Elevation, panel placed in the way that the 3" distance is on the right side; panel configuration : clockwise
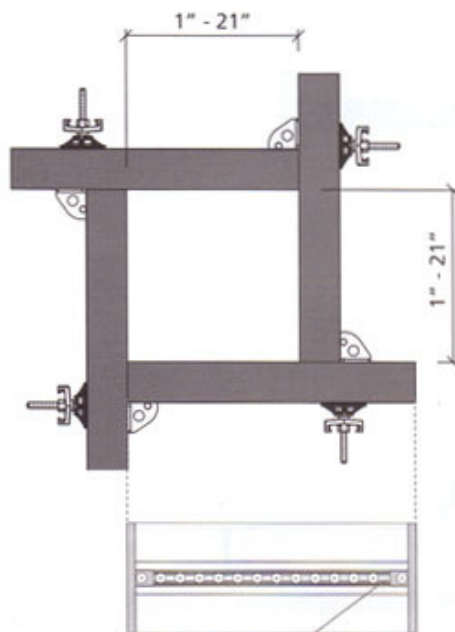
Fig. 17.3   Elevation, panel placed in the way that the 3" distance is on the right side; panel configuration : counterclockwise
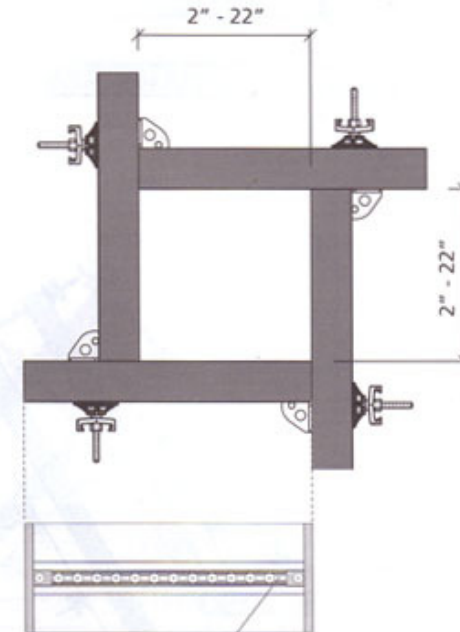
Fig. 17.4   Elevation, panel placed in the way that the 3" distance is on the right side; panel configuration : clockwise

Description	Ref.-No.
ML-multi-purpose panels	
9'x2.5'	22-500-25
6'x2.5'	22-501-25
4'x2.5'	22-502-25
3'x2.5'	22-503-25
EA-assembly lock	29-205-50
Uni-assembly lock 22	29-400-85
ML-column clamp	29-210-70
ML-tensioning screw	29-210-80
Articulated flange nut 120	29-900-10

Multi-purpose panels

90° corners with multi-purpose panels

To form a 90° corner you can use a multi-purpose panel and a MevaLite standard panel connected by a column clamp (Fig. 18.1 and 18.2).

It is also possible to form 90° corners by using two multi-purpose panels connected with a tensioning screw (Fig. 18.3 and 18.4).

Both ways create a tight, rectangular and rigid connection. Two multi-purpose panels in combination with the tensioning screw allow for a wall thickness of 12". Wall thicknesses up to 24" are possible when using the column clamp in combination with a 3' wide standard panel.
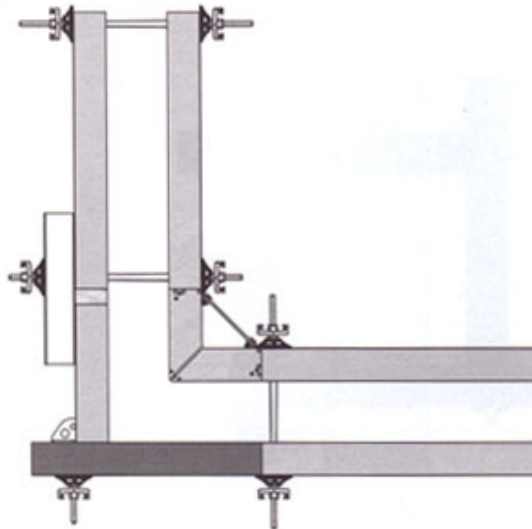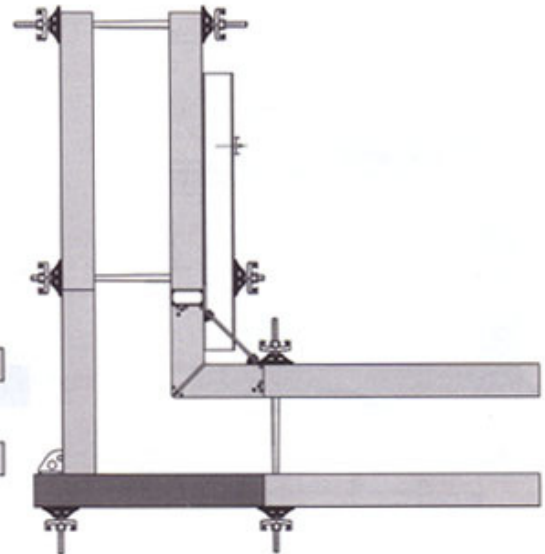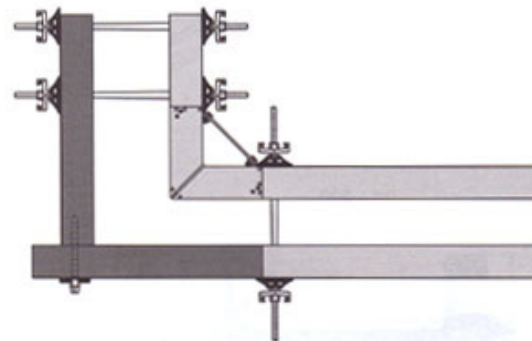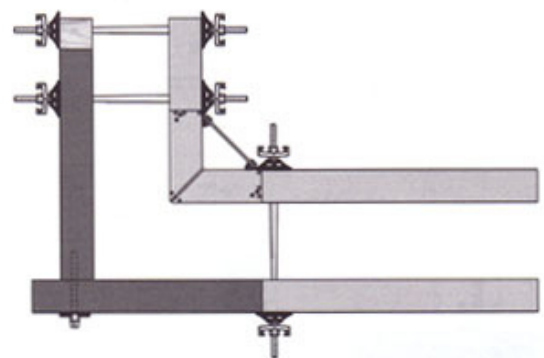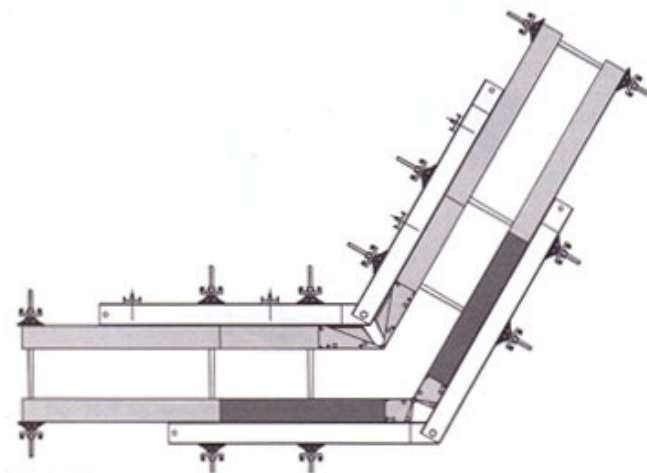
Fig. 18.1

Fig. 18.2

Fig. 18.3

Fig. 18.4

Description	Ref.-No.
ML-multi-purpose panels	
9'x2.5'	**22-500-25**
6'x2.5'	**22-501-25**
4'x2.5'	**22-502-25**
3'x2.5'	**22-503-25**
EA-assembly lock	**29-205-50**
Uni-assembly lock 22	**29-400-85**
ML-column clamp	**29-210-70**
ML-tensioning screw	**29-210-80**
Articulated flange nut 120	**29-900-10**

Fig. 18.5