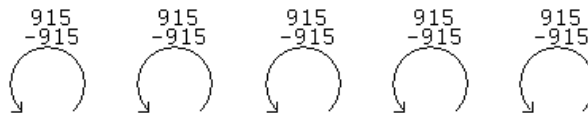


**Fascia armata platea F.A.P.9 - F.A.P.10 - F.A.P.11 - F.A.P.12**  
**NTC 14/01/2008**

|                                         |                                                             |                           |
|-----------------------------------------|-------------------------------------------------------------|---------------------------|
| acc. : $f_{yk} = 4500 \text{ daN/cm}^2$ | $f_{yd} = f_{yk} / 1,15 = 3913 \text{ daN/cm}^2$            | copriferro sup : 3,00 cm  |
| cls. : $R_{ck} = 300 \text{ daN/cm}^2$  | $f_{cd} = 0,85 \times f_{ck} / 1,50 = 141 \text{ daN/cm}^2$ | copriferro inf : 3,00 cm  |
| Coeff.Car.Perm. Strutturali= 1,30       | $E_c = 314470 \text{ daN/cm}^2$                             | Coeff.Az.Oriz.Vento= 1,50 |
| Coeff.Car.Perm. Non Strutt.= 1,50       |                                                             | Classe Duttilit  = B      |
| Coeff.Car. variabili = 1,50             |                                                             | Fatt.Sovraresist. = 1,10  |

M.cdc.3  
M.cdc.4



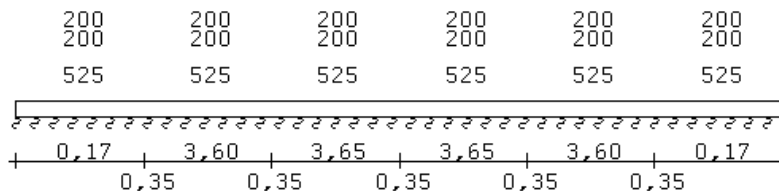
Q.cdc.1  
Q.cdc.2

357 712 718 711 357  
357 712 718 711 357

N.G2  
N.G1

694 1392 1403 1390 693  
2551 3653 3672 3650 2549

Q  
G2  
G1  
p.p.  
[daN/m]



M.Winkler

[daN/cm3]: 2,0

**DATI GEOMETRICI SEZIONE**

| asta | luce(m) | Base(cm) | altezza | sp.anima | sp.ala | sp.magrone(cm) | J(cm4) |
|------|---------|----------|---------|----------|--------|----------------|--------|
| 1    | 0,17    | 60       | 35      |          |        | 10             | 214375 |
| 2    | 3,60    | 60       | 35      |          |        | 10             | 214375 |
| 3    | 3,65    | 60       | 35      |          |        | 10             | 214375 |
| 4    | 3,65    | 60       | 35      |          |        | 10             | 214375 |
| 5    | 3,60    | 60       | 35      |          |        | 10             | 214375 |
| 6    | 0,17    | 60       | 35      |          |        | 10             | 214375 |

**CARICHI Concentrati NODALI (daN)**

| nodo | Q(cdc 1) | Q(cdc 2) | Q(cdc 3) | Q(cdc 4) | N.G1 | N.G2 |
|------|----------|----------|----------|----------|------|------|
| 2    | 357      | 357      |          |          | 2551 | 694  |
| 3    | 712      | 712      |          |          | 3653 | 1392 |
| 4    | 718      | 718      |          |          | 3672 | 1403 |
| 5    | 711      | 711      |          |          | 3650 | 1390 |
| 6    | 357      | 357      |          |          | 2549 | 693  |

**MOMENTI Concentrati NODALI (daN)**

| nodo | M(cdc 1) | M(cdc 2) | M(cdc 3) | M(cdc 4) |
|------|----------|----------|----------|----------|
| 2    |          |          | 915      | -915     |
| 3    |          |          | 915      | -915     |
| 4    |          |          | 915      | -915     |
| 5    |          |          | 915      | -915     |
| 6    |          |          | 915      | -915     |

**Fascia armata platea F.A.P.9 - F.A.P.10 - F.A.P.11 - F.A.P.12**  
**NTC 14/01/2008**

**MOMENTI MAX. (-) IN CAMPATA**

| asta | pos. [m] | MEd [daNm] | MRd [daNm] | X [cm] | X/d | arm. inf. [cm²] | arm. sup. [cm²] |
|------|----------|------------|------------|--------|-----|-----------------|-----------------|
| 1    |          |            |            |        |     |                 |                 |
| 2    | 1,44     | -2780      |            |        |     |                 |                 |
| 3    | 1,83     | -1088      |            |        |     |                 |                 |
| 4    | 1,83     | -1088      |            |        |     |                 |                 |
| 5    | 2,16     | -2777      |            |        |     |                 |                 |
| 6    |          |            |            |        |     |                 |                 |

**MOMENTI MAX. (+) DI ESTREMITA'**

| asta | nodo       | MEd [daNm]       | MRd [daNm] | X [cm] | X/d | arm. inf. [cm²] | arm. sup. [cm²] |
|------|------------|------------------|------------|--------|-----|-----------------|-----------------|
| 1    | sx.<br>dx. | 56 <             |            |        |     |                 |                 |
| 2    | sx.<br>dx. | 1036 <<br>1953 < |            |        |     |                 |                 |
| 3    | sx.<br>dx. | 1953 <<br>2568 < |            |        |     |                 |                 |
| 4    | sx.<br>dx. | 2568 <<br>1950 < |            |        |     |                 |                 |
| 5    | sx.<br>dx. | 1950 <<br>1036 < |            |        |     |                 |                 |
| 6    | sx.<br>dx. | 56 <             |            |        |     |                 |                 |

**TAGLIO Max. Estremità**

| asta | nodo       | VEd [daN]        | VRd [daN] | VRd'           | VRcd           | VRsd   | staffe |
|------|------------|------------------|-----------|----------------|----------------|--------|--------|
| 1    | sx.<br>dx. | 649 <            |           | 9159<br>9159   | 60955<br>60955 | 0<br>0 |        |
| 2    | sx.<br>dx. | 4243 <<br>4388 < |           | 10733<br>10628 | 60955<br>60955 | 0<br>0 |        |
| 3    | sx.<br>dx. | 3517 <<br>3978 < |           | 10733<br>10733 | 60955<br>60955 | 0<br>0 |        |
| 4    | sx.<br>dx. | 3977 <<br>3514 < |           | 10733<br>9159  | 60955<br>60955 | 0<br>0 |        |
| 5    | sx.<br>dx. | 4383 <<br>4240 < |           | 9159<br>9159   | 60955<br>60955 | 0<br>0 |        |
| 6    | sx.<br>dx. | 649 <            |           | 9159<br>9159   | 60955<br>60955 | 0<br>0 |        |

VEd  
VRd = min (VRcd, VRsd)

Taglio di Calcolo  
Taglio Resistente

VRd' = (0.18 k (100 ro fck)^(1/3))/1,50 bw d  
VRmin = (0.035 k^(3/2) fck^(1/2) bw d

Taglio Res.senza staffe k = 1+(20/d)^(1/2) <= 2  
Taglio Res.Min. VRd' >= VRmin

VRcd = 0.9 d bw f'cd ctgθ / (1+ctg²θ)  
VRsd = 0.9 d Asw fyd ctgθ

Taglio Res.cls compresso f'cd = 0.5xfcd = 71 daN/cm²  
Taglio Res.con staffe

ctg θ = 1,00

inclinazione biella cls

**Fascia armata platea F.A.P.9 - F.A.P.10 - F.A.P.11 - F.A.P.12**  
**NTC 14/01/2008**

**Pressione sul terreno (daN/cm<sup>2</sup>)**

| nodo | comb. (A1) |         |         |         | comb. (A2) |         |         |         |
|------|------------|---------|---------|---------|------------|---------|---------|---------|
|      | (cdc.1)    | (cdc.2) | (cdc.3) | (cdc.4) | (cdc.1)    | (cdc.2) | (cdc.3) | (cdc.4) |
| 1    | 0,65       | 0,65    | 0,50    | 0,37    | 0,49       | 0,49    | 0,47    | 0,36    |
| 2    | 0,62       | 0,62    | 0,47    | 0,36    | 0,49       | 0,49    | 0,47    | 0,36    |
| 3    | 0,42       | 0,42    | 0,26    | 0,28    | 0,35       | 0,35    | 0,28    | 0,28    |
| 4    | 0,44       | 0,44    | 0,28    | 0,28    | 0,35       | 0,35    | 0,28    | 0,28    |
| 5    | 0,41       | 0,41    | 0,28    | 0,26    | 0,49       | 0,49    | 0,36    | 0,47    |
| 6    | 0,62       | 0,62    | 0,36    | 0,47    | 0,52       | 0,52    | 0,37    | 0,50    |
| 7    | 0,65       | 0,65    | 0,37    | 0,50    | 0,52       | 0,52    | 0,37    | 0,50    |

comb(A1) = coeff. parziali carichi (G1=1.3 G2=1.5 Q=1.5)

comb(A2) = coeff. parziali carichi (G1=1.0 G2=1.3 Q=1.3)