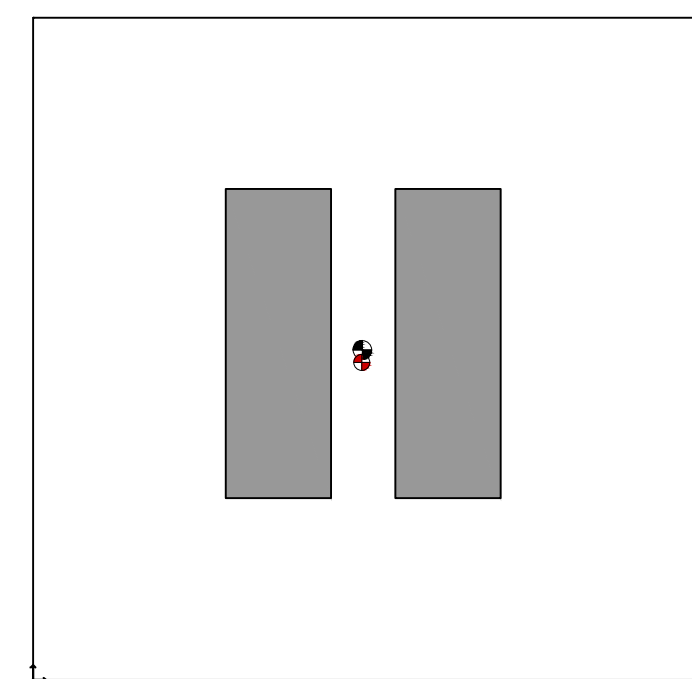
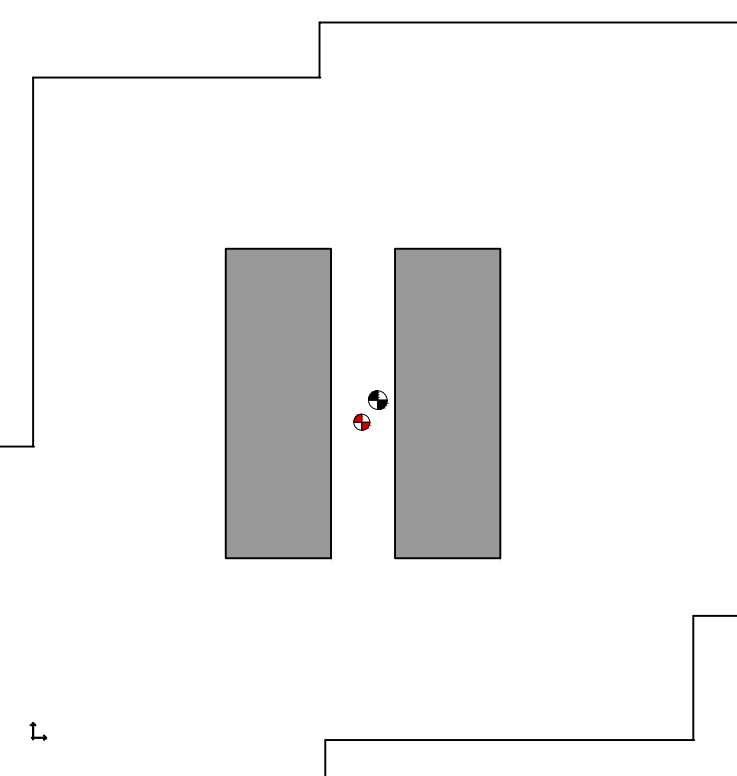


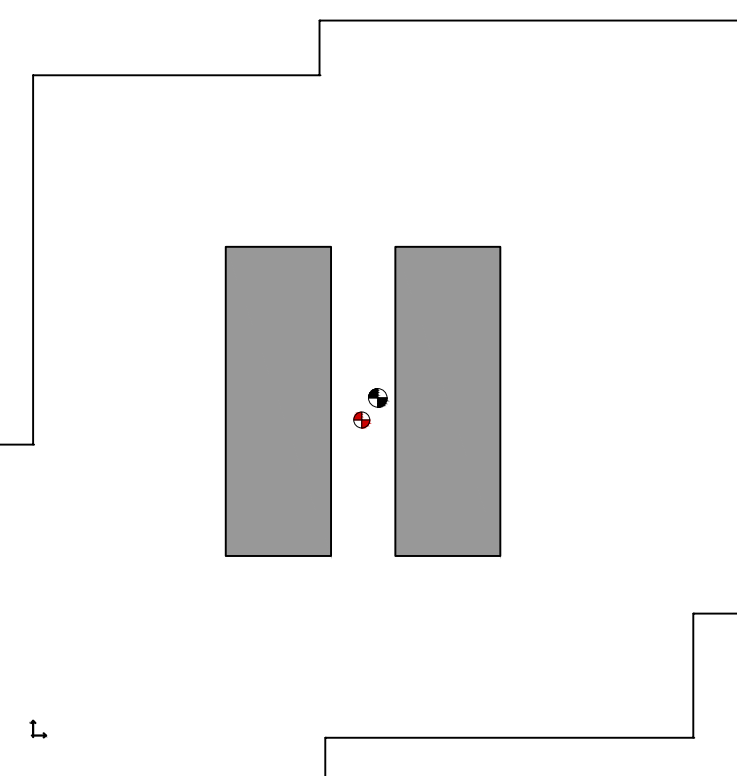
BARICENTRO DELLE RIGIDENZE
BARICENTRO DELLE MASSE



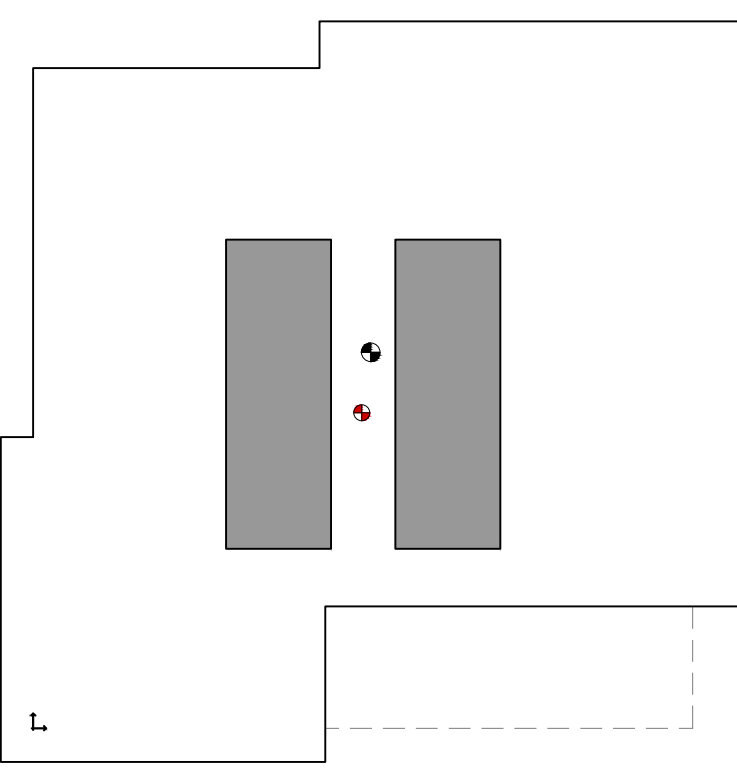
PIANO TERRA
X: 15.01 m
Y: 15.05 m
 $\Delta X = 0.25$ m
 $\Delta Y = 0.56$ m



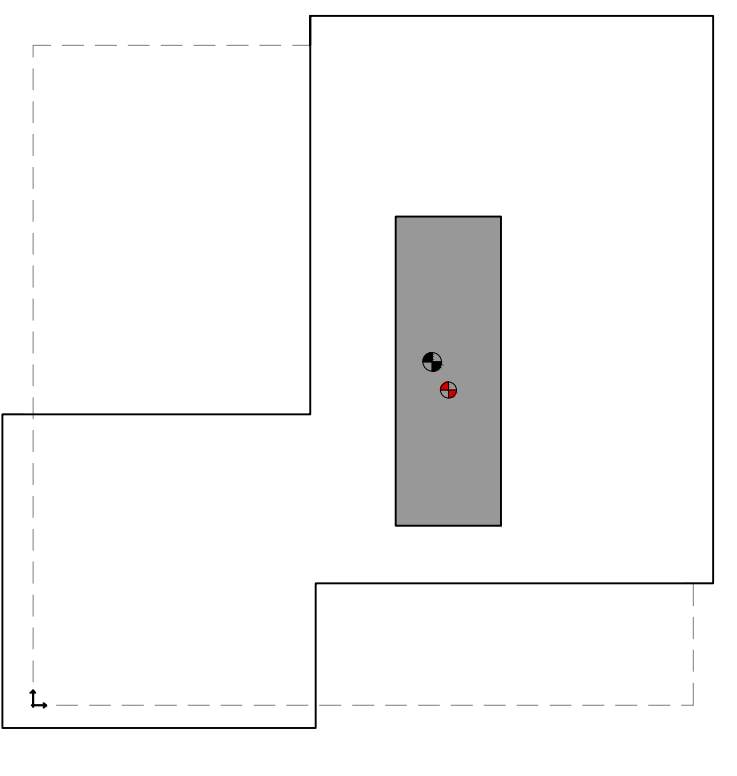
PIANO 16°
X: 15.44 m
Y: 15.09 m
 $\Delta X = 0.45$ m
 $\Delta Y = 0.60$ m



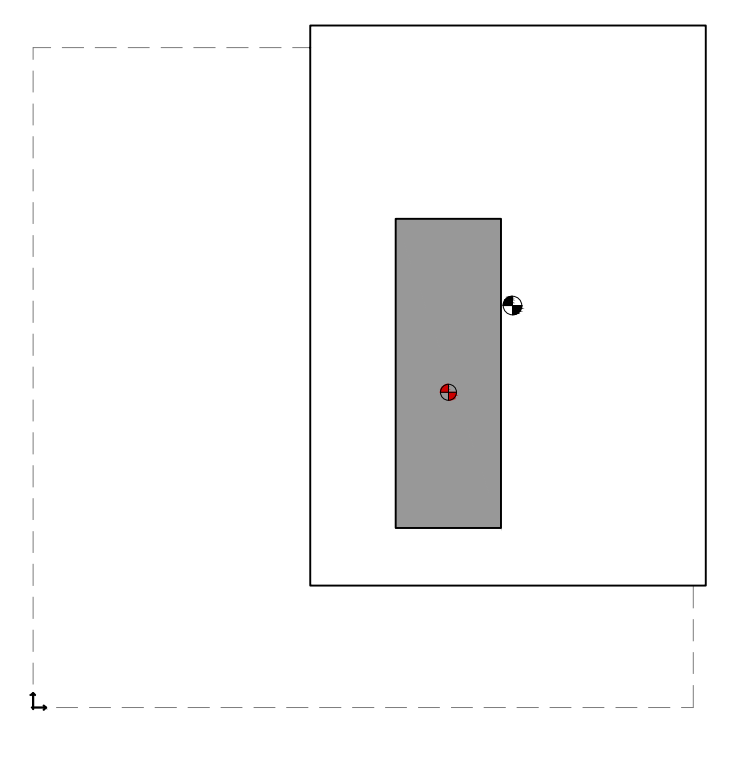
PIANO 20°
X: 15.72 m
Y: 15.39 m
 $\Delta X = 0.73$ m
 $\Delta Y = 1.50$ m



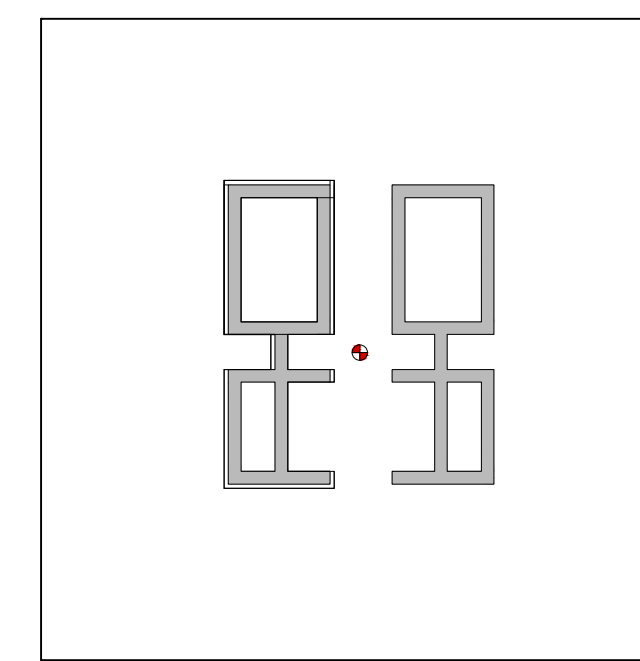
PIANO 29°
X: 15.39 m
Y: 17.14 m
 $\Delta X = 0.4$ m
 $\Delta Y = 2.75$ m



PIANO 30°
X: 18.20 m
Y: 15.66 m
 $\Delta X = 0.73$ m
 $\Delta Y = 1.27$ m

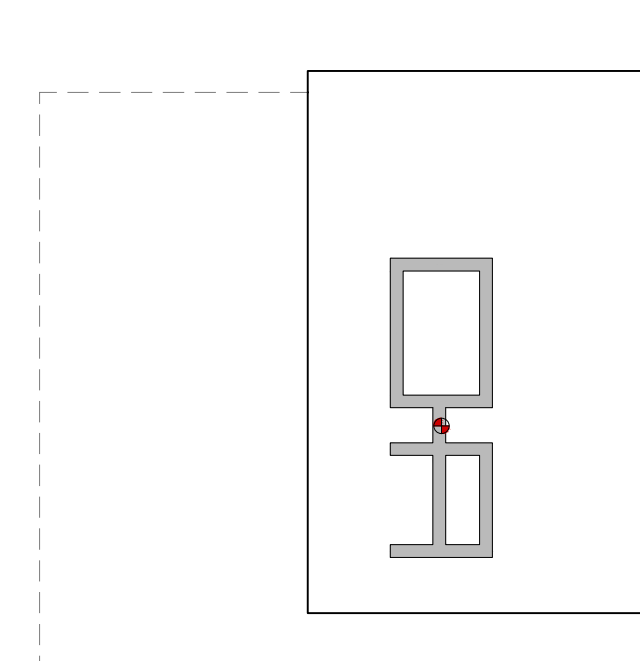


PIANO 34°
X: 22.17 m
Y: 18.32 m
 $\Delta X = 2.93$ m
 $\Delta Y = 3.95$ m



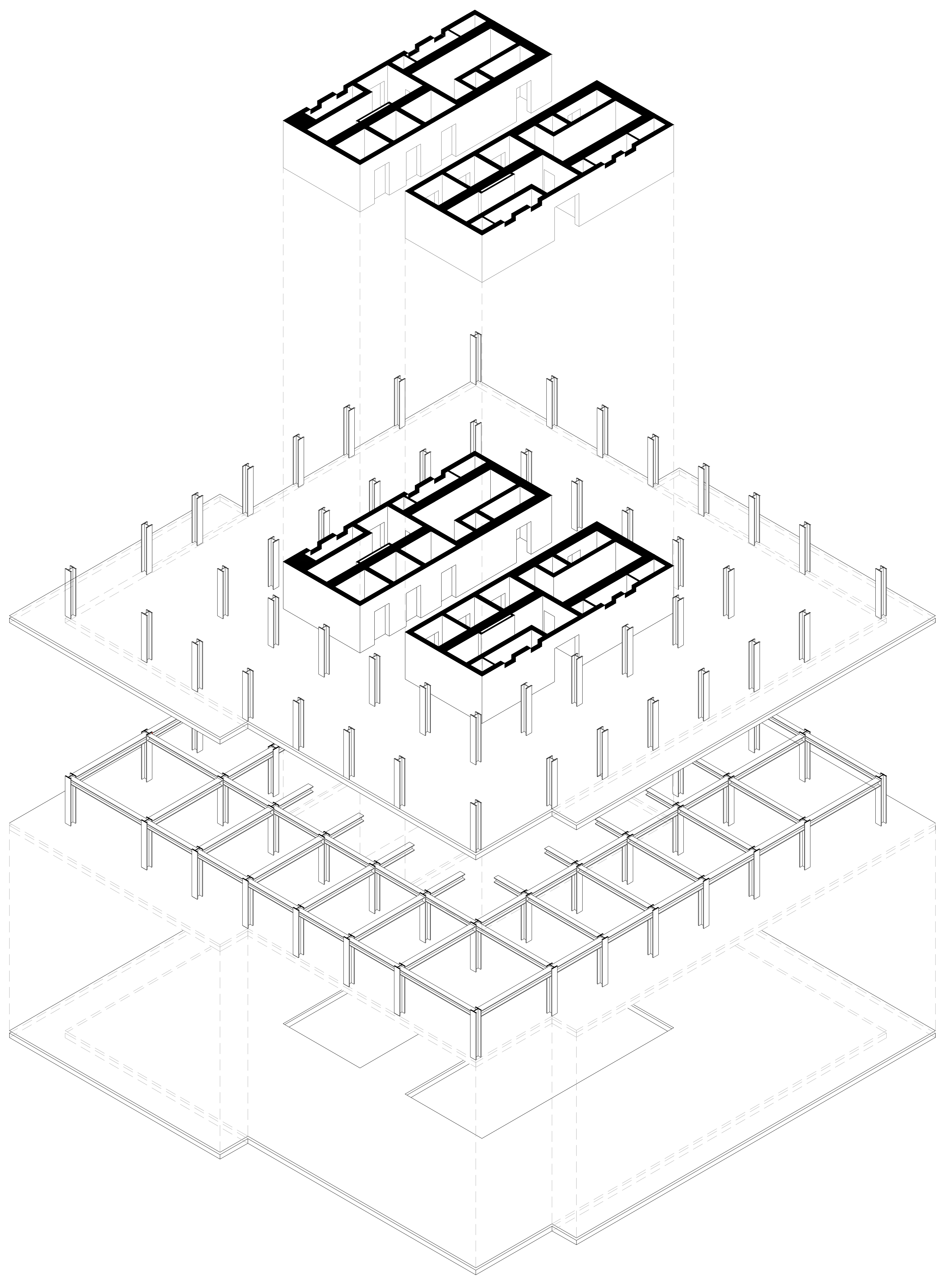
X: 15.1 m
Y: 14.4 m
RISPETTO ASSE BARICENTRO MASSE

1°-30° piano
direzione X
 $K_x = K1 + K3 + K6 + K9 + K10 + K12 + K15 + K18$
 $I_{jx} = b \times h^3 / 12$
 $S_{jx} = I_{jx} \times y$
 $S_{jy} = I_{j1} \times 13.5 + I_{j3} \times 7.05 + I_{j6} \times 4.8 + I_{j9} \times 0 + I_{j10} \times 13.5 + I_{j12} \times 7.05 + I_{j15} \times 4.80 + I_{j18} \times 0 = 195.16 \text{ m}^5$
 $Y = S_{jx} / \Sigma = 195.1 \text{ cm}^5 / 318 \text{ cm}^4 = 5.9 \text{ m}$
direzione Y
 $K_{jy} = K2 + K4 + K5 + K7 + K8 + K11 + K13 + K14 + K16 + K17$
 $I_{jy} = b \times h^3 / 12$
 $S_{jy} = I_{j2} \times 4.2 + I_{j4} \times 0 + I_{j5} \times 2.2 + I_{j7} \times 0 + I_{j8} \times 2.2 + I_{j11} \times 11.9 + I_{j13} \times 7.7 + I_{j14} \times 9.7 + I_{j16} \times 11.9 + I_{j17} \times 9.7 = 448.8 \text{ m}^5$
 $S_x = I_{jx} \times X$
 $S_y = I_{jy} \times Y$
RISPETTO ASSE BARICENTRO RIGIDENZE

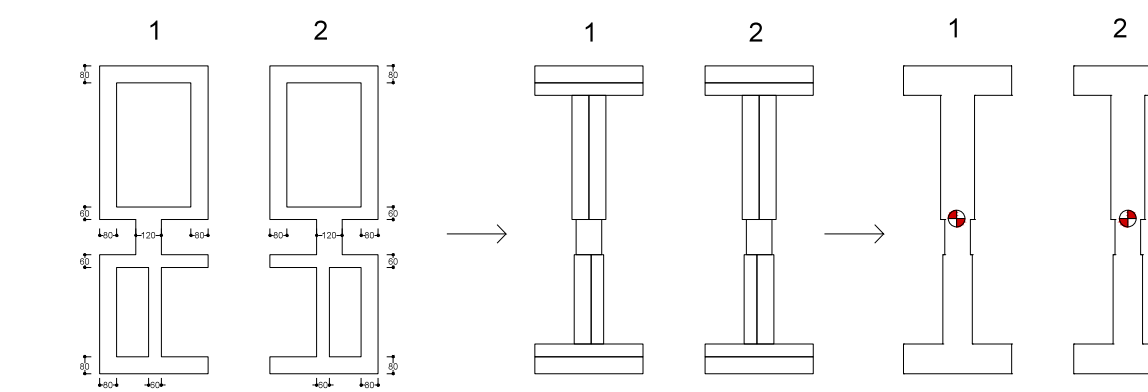


X: 14.1 m
Y: 18.9 m
RISPETTO ASSE BARICENTRO MASSE

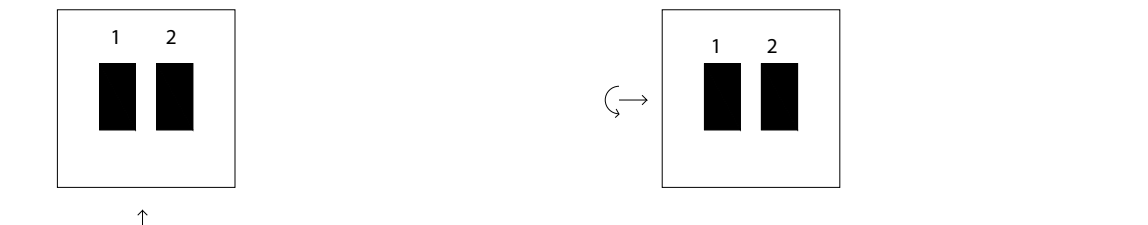
30°-35° piano
direzione X
 $K_x = K10 + K12 + K15 + K18$
 $I_{jx} = b \times h^3 / 12$
 $S_{jx} = I_{jx} \times y$
 $S_{jy} = I_{j10} \times 13.5 + I_{j12} \times 7.05 + I_{j15} \times 4.8 + I_{j18} \times 0 = 97.58 \text{ m}^5$
 $Y = S_{jx} / \Sigma = 97.6 \text{ cm}^5 / 16.4 \text{ cm}^4 = 5.9 \text{ m}$
direzione Y
 $K_{jy} = K10 + K12 + K14 + K15$
 $I_{jy} = b \times h^3 / 12$
 $S_{jy} = I_{j11} \times 4.2 + I_{j13} \times 0 + I_{j14} \times 2.3 + I_{j16} \times 4.2 + I_{j17} \times 2.3 = 91.9 \text{ m}^5$
 $S_x = I_{jx} \times X$
 $S_y = I_{jy} \times Y$
RISPETTO ASSE BARICENTRO RIGIDENZE



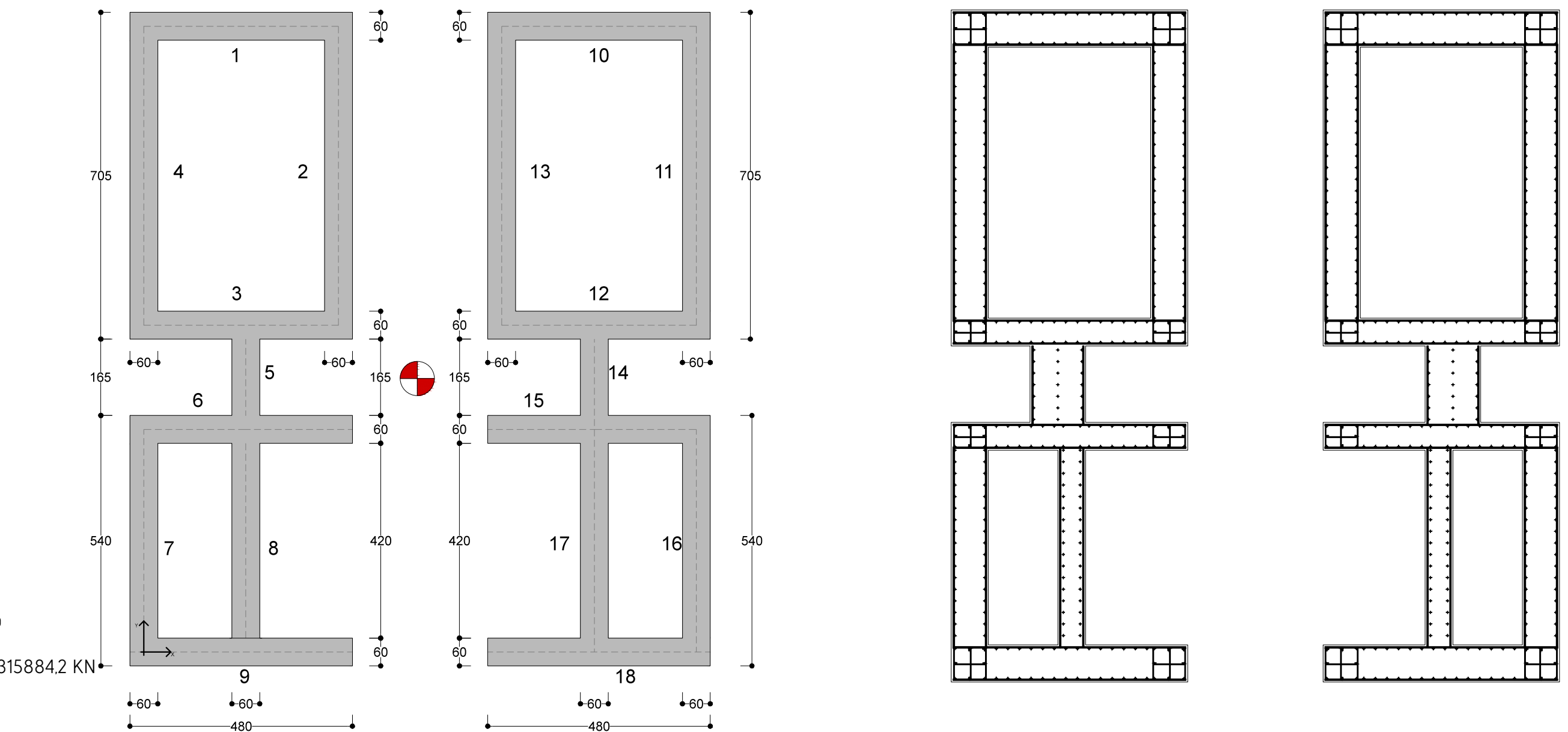
ASSONOMETRIA DISPOSIZIONE PILASTRI E NUCLEO CENTRALE



Area: 311 m²
Perimetro: 47.4 m
Baricentro: X: 2.5 m, Y: 7.3 m
Momento di inerzia: X: 2524 m⁴, Y: 239 m⁴
Raggio di inerzia: X: 8.9 m, Y: 2.7 m
Principali momenti rispetto al baricentro secondo X e Y: I: 341 m⁴, J: 8145 m⁴

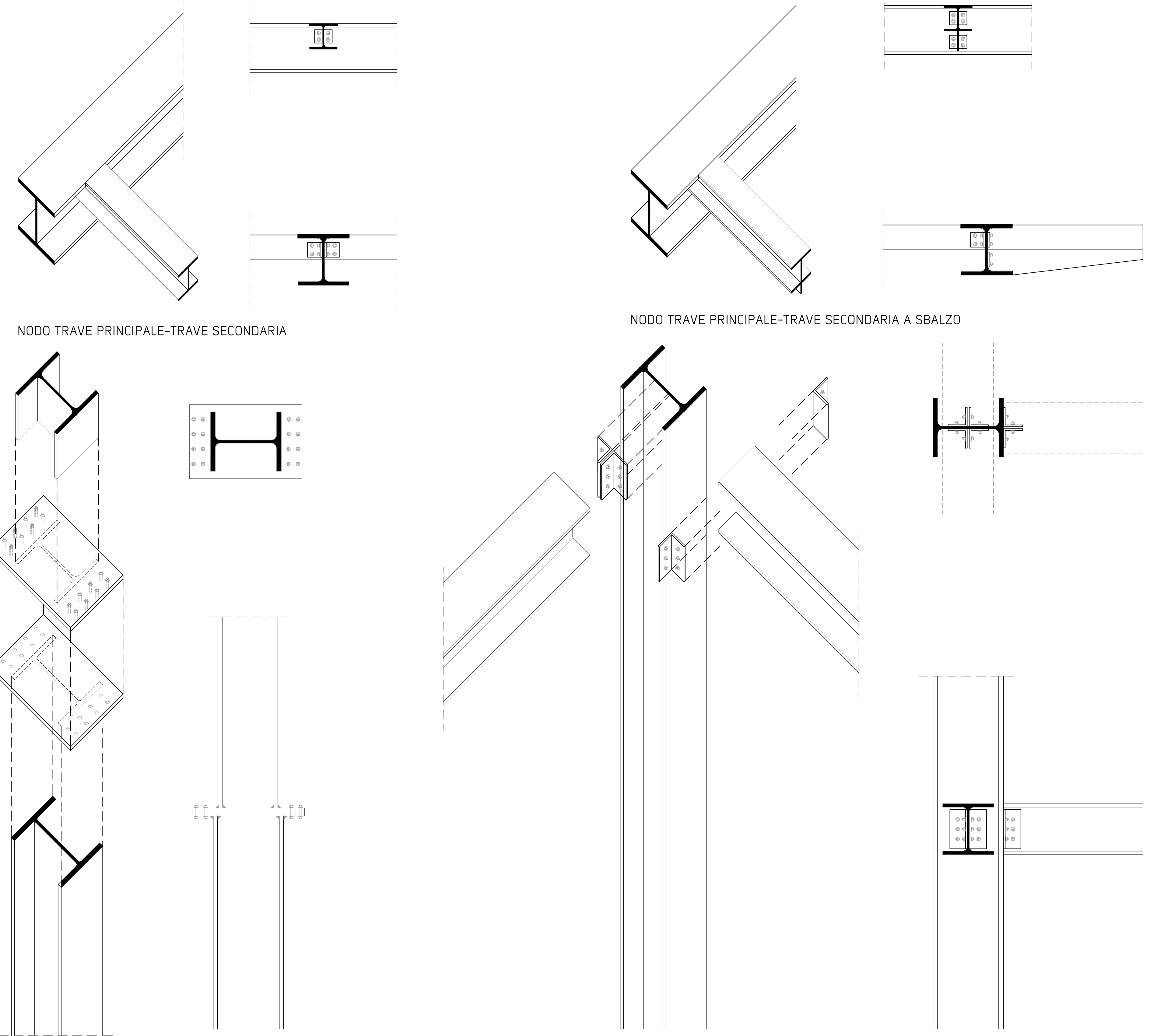


$\sigma = N / A \pm M / W$
N = Ned-piano t
A = A1 + A2
M = Mvento
W = W1 + W2 (lx / Y)
W = 8145 m⁴ / 75 = 108.6 m³
 $\sigma = 3158842 / 311 \times 2 \pm 3768987 / 108.6 \times 2$
 $\sigma = 5078.5 \pm 17352$
 $\sigma_{comp} = 6.8 \text{ N/m}^2$
 $\sigma_{tess} = 3.3 \text{ N/m}^2$



PIANTA ARMATURA NUCLEO CENTRALE
AREA DI INFLUENZA
ARMATURA
TONDINI LONGITUDINALI Ø 25 mm
TONDINI TRASVERSALI Ø 20 mm
STAFFA DI CHIUSURA Ø 12 mm
PROSPETTO ARMATURA PORZIONE 1m

PARTICOLARI COSTRUTTIVI



NODO PILASTRO-PILASTRO

NODO PILASTRO-TRAVE PRINCIPALE

TIPO / FORMA / COSTRUZIONE / STRUTTURE