**Viga Aluma 160**



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| **Longitudes****disponibles** | **Peso propio** |
| Desde:1.15m *hasta* 2.14m | 6.0 kg - m |

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| **CARGA UNIFORMEMENTE DISTRIBUIDA PERMISIBLE EN LBS./PIES. & KG/M** |
|  ***CLARO LIBRE***  |  ***CARGA***   |
| **PIES** | **METROS** | **LBS/PIE** | **KG/M** |
| 4'-0"  | 1.22   | 2475   | 3688   |
| 5'-0"  | 1.53  | 1585  | 2362  |
| 6'-0"  | 1.83   | 1100   | 1639  |
| 7'-0"   | 2.14  | 810   | 1207  |
| 8'-0"  | 2.44  | 620  | 924  |
| 9'-0"   | 2.75   | 455  | 678  |
| 10'-0"  | 3.05  | 330  | 492  |
| *Factor de seguridad mínimo 2.5:1. Deflexión limitada a: Claro libre/360   Carga = Carga Muerta + Carga viva* |

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| **CLARO LIBRE MAXIMO ADMISIBLE (mts)** |
|
| ***Espesor de la capa de concreto (cms)*** | ***Espaciamiento de vigas (cms)*** |
| **15.0** | **20.3** | **30.5** | **40.6** | **48.8** | **61.0** |
| 10.0 | 5.17 | D | 4.79 | D | 4.33 | D | 4.03 | D | 3.85 | D | 3.64 | D |
| 12.5 | 4.90 | D | 4.54 | D | 4.10 | D | 3.82 | D | 3.65 | D | 3.45 | D |
| 15.0 | 4.69 | D | 4.35 | D | 3.93 | D | 3.66 | D | 3.49 | D | 3.30 | D |
| 17.5 | 4.52 | D | 4.19 | D | 3.79 | D | 3.52 | D | 3.37 | D | 3.18 | D |
| 20.0 | 4.38 | D | 4.06 | D | 3.66 | D | 3.41 | D | 3.26 | D | 3.08 | D |
| 22.5 | 4.25 | D | 3.94 | D | 3.56 | D | 3.32 | D | 3.17 | D | 2.99 | D |
| 25.0 | 4.15 | D | 3.84 | D | 3.47 | D | 3.23 | D | 3.09 | D | 2.92 | D |
| 27.5 | 4.05 | D | 3.75 | D | 3.39 | D | 3.16 | D | 3.02 | D | 2.85 | D |
| 30.0 | 3.96 | D | 3.68 | D | 3.32 | D | 3.09 | D | 2.95 | D | 2.79 | D |
| 32.5 | 3.89 | D | 3.60 | D | 3.26 | D | 3.03 | D | 2.89 | D | 2.74 | D |
| 35.0 | 3.82 | D | 3.54 | D | 3.20 | D | 2.98 | D | 2.84 | D | 2.69 | D |
| 37.5 | 3.75 | D | 3.48 | D | 3.14 | D | 2.93 | D | 2.79 | D | 2.64 | D |
| 40.0 | 3.69 | D | 3.42 | D | 3.09 | D | 2.88 | D | 2.75 | D | 2.60 | D |
| 42.5 | 3.64 | D | 3.37 | D | 3.05 | D | 2.84 | D | 2.71 | D | 2.56 | D |
| 45.0 | 3.59 | D | 3.33 | D | 3.00 | D | 2.80 | D | 2.67 | D | 2.53 | D |
| 47.5 | 3.54 | D | 3.28 | D | 2.97 | D | 2.76 | D | 2.64 | D | 2.49 | D |
| 50.0 | 3.50 | D | 3.24 | D | 2.93 | D | 2.73 | D | 2.60 | D | 2.46 | D |
| 52.5 | 3.45 | D | 3.20 | D | 2.89 | D | 2.69 | D | 2.57 | D | 2.43 | D |
| 55.0 | 3.41 | D | 3.17 | D | 2.86 | D | 2.66 | D | 2.54 | D | 2.40 | D |
| 57.5 | 3.38 | D | 3.13 | D | 2.83 | D | 2.63 | D | 2.51 | D | 2.38 | D |
| 60.0 | 3.34 | D | 3.10 | D | 2.80 | D | 2.61 | D | 2.49 | D | 2.35 | D |
| *Factor de seguridad 2.0 : 1 . Espesor mínimo de 11/16” a utilizar de forma individual cuando se trabaja con los valores que estas por debajo de las líneas horizontales.* ***D*** *Gobierna la deflexión (deflexion < L/360)* |

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| **CARGA ADMISIBLE PARA UN CLARO** |
|
| **Ancho%20de%20carga*Claro libre =***  | ***1.83 mts*** | ***1.52 mts*** | ***1.22mts*** |
| ***Ancho de carga (cms)*** | **Carga total permisible W (Kg f)**  | **Carga total permisible W (Kg f)**  | **Carga total permisible W (Kg f)**  |
|
| 0.00 | 2012.92 | D | 2505.44 | M | 3144.80 | M |
| 0.30 | 2039.43 | D | 2790.96 | M | 3586.34 | M |
| 0.45 | 2072.06 | D | 2952.08 | M | 3857.59 | M |
| 0.60 | 2117.95 | D | 3117.27 | D | 4171.66 | M |
| 0.75 | 2177.09 | D | 3243.72 | D | 4542.84 | M |
| 0.90 | 2251.53 | D | 3404.83 | D | 4985.39 | M |
| 1.05 | 2343.31 | D | 3607.76 | D | 5524.82 | M |
| 1.20 | 2454.46 | D | 3860.65 | D | 6193.76 | M |
| 1.35 | 2588.04 | D | 4173.70 | D |  |
| 1.50 | 2747.12 | D | 4567.31 | D |  |
| 1.65 | 2938.82 | D |  |
| 1.83 | 3220.26 | D |  |
| *Factor de seguridad 2.0 : 1* ***D*** *Gobierna la deflexión (deflexión < L/360)****M*** *Gobierna el Momento* |

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| **CAPACIDAD DE CARGA UNIFORMEMENTE DISTRIBUIDA PARA VIGAS CON MULTI - CLAROS**  |
|
| ***Condición del Claro (mts)*** | **Deflexión admisible (mm)** | **CUD admisible (Kg f /m)** |
| **1er Claro** | **2do Claro** |
| 1.2 | 1.5 |   | 3.33 | 4.17 | 3626.11 | R |
| 1.2 | 1.8 |   | 3.33 | 5.00 | 3177.44 | D |
| 1.2 | 1.5 | 1.2 | 3.33 | 4.17 | 4109.46 | R |
| 1.5 | 1.2 | 1.5 | 4.17 | 3.33 | 4143.11 | D |
| 1.2 | 1.8 | 1.2 | 3.33 | 5.00 | 3626.11 | M |
| 1.8 | 1.2 | 1.8 | 5.00 | 3.33 | 2783.83 | D |
| 1.5 | 1.8 |   | 4.17 | 5.00 | 2963.30 | M |
| 1.5 | 2.1 |   | 4.17 | 5.83 | 2191.37 | D |
| 1.5 | 1.8 | 1.5 | 4.17 | 5.00 | 3368.12 | R |
| 1.8 | 1.5 | 1.8 | 5.00 | 4.17 | 2931.68 | D |
| 1.5 | 2.1 | 1.5 | 4.17 | 5.83 | 3036.71 | M |
| 2.1 | 1.5 | 2.1 | 5.83 | 4.17 | 1771.25 | D |
| 1.8 | 2.1 |   | 5.00 | 5.83 | 2198.51 | D |
| 1.8 | 2.4 |   | 5.00 | 6.67 | 1493.88 | D |
| 1.8 | 2.1 | 1.8 | 5.00 | 5.83 | 2777.71 | M |
| 2.1 | 1.8 | 2.1 | 5.83 | 5.00 | 1868.12 | D |
| 1.8 | 2.4 | 1.8 | 5.00 | 6.67 | 2345.35 | M |
| 2.4 | 1.8 | 2.4 | 6.67 | 5.00 | 1198.17 | D |
| *Factor de seguridad 2.0 : 1* ***D*** *Gobierna la deflexión (deflexión < L/360)****M*** *Gobierna el Momento****R*** *Gobierna la reacción* |