

TABELAS DE PRÉ-DIMENSIONAMENTO – TRELIFÁCIL®



- Recomenda-se que as tabelas de pré-dimensionamento a seguir sirvam como um guia na definição da altura da laje e sua armadura de reforço.
- **IMPORTANTE: o respeito às tabelas recomendadas não elimina a necessidade de um projetista de estruturas e da observância de todas as normas técnicas aplicáveis, regulações legais e normativas dos conselhos profissionais. É impreterível a validação do dimensionamento por um profissional legalmente habilitado e capacitado.**
- **Os dados referem-se apenas às lajes indicadas na imagem detalhada ao lado da tabela. Não são válidos para lajes com distância entre eixos de nervuras e alturas de capa de concreto diferentes. Também não são válidos para concretos com resistência diferente da indicada em cada tabela.**
- As cargas atuantes nas lajes indicadas nas tabelas, correspondem a soma da carga permanente total com a carga acidental, não sendo necessário acrescentar o peso próprio.
- O pré-dimensionamento das lajes considera uma deformação limite máxima igual ao vão/250.
- A parcela de carga permanente deve estar limitada a:
 - ✓ 100 kgf/m² nas cargas totais de 150 e 200 kgf/m²
 - ✓ 150 kgf/m² nas cargas totais de 250 e 300 kgf/m²
 - ✓ 200 kgf/m² nas cargas totais de 350 a 500 kgf/m²
 - ✓ 250 kgf/m² nas cargas totais de 550 a 750 kgf/m²
- Qualquer laje com parcela de carga permanente maior do que os valores destacados acima precisa ser verificada quanto à deformação, e indicado contra flecha quando o deslocamento ultrapassar vão/250.
- A ArcelorMittal possui o mais amplo portfólio de Trelifácil do mercado! Para tipos e alturas diferentes das especificadas neste material, entre em contato via portal Fale Conosco: <https://brasil.arcelormittal.com.br/contato>.

TABELAS DE PRÉ-DIMENSIONAMENTO – TRELIFÁCIL®

Informações das tabelas



ArcelorMittal

Altura e modelo da treliça considerada na matriz

TRELIÇA: altura H8
Modelo ArcelorMittal **TB 8L TR8644**

Resistência do concreto considerada na matriz

CONCRETO:
Resistência de 20 MPa

Cargas atuantes na estrutura

Matriz de vãos x cargas com indicação de barras de reforço



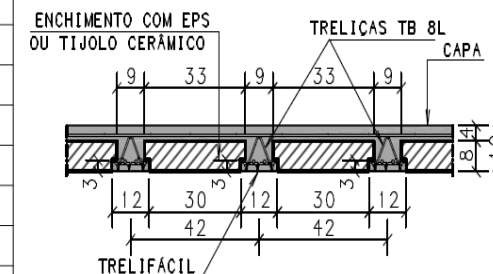
Cargas (kgf/m²)

Treliça ArcelorMittal TB 8L TR8644

Vão (m)	150	200	250	300	350	400	450	500	550	600	650	700	750
1,20	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5
1,40	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5
1,60	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5
1,80	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5
2,00	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	---	---
2,20	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	1 φ 6.3	---	---	---
2,40	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	1 φ 6	2 φ 5	---	---	---	---
2,60	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	1 φ 6.3	2 φ 5	2 φ 5	---	---	---	---	---
2,80	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	2 φ 5	2 φ 5	1 φ 8	---	---	---	---	---	---
3,00	1 φ 5	1 φ 5	1 φ 6.3	2 φ 5	2 φ 5	2 φ 6.3	---	---	---	---	---	---	---
3,20	1 φ 5	1 φ 6.3	2 φ 5	2 φ 5	2 φ 6.3	---	---	---	---	---	---	---	---
3,40	1 φ 6.3	2 φ 5	1 φ 8	2 φ 6.3	---	---	---	---	---	---	---	---	---
3,60	2 φ 5	2 φ 5	2 φ 6.3	1 φ 10	---	---	---	---	---	---	---	---	---
3,80	2 φ 5	2 φ 6.3	---	---	---	---	---	---	---	---	---	---	---
4,00	2 φ 6.3	2 φ 6	---	---	---	---	---	---	---	---	---	---	---

Vãos bi apoiados

DETALHE LAJES NERVURADAS (H=12=8+4)



Desenho esquemático da laje com as respectivas cotas

Barras de reforço indicadas

Exemplos: 1 φ 5 = 1 barra CA60 5mm; 2 φ 6.3 = 2 barras CA50 6.3mm

Vãos x cargas não

considerados na análise

TABELAS DE PRÉ-DIMENSIONAMENTO – TRELIFÁCIL®



ArcelorMittal

TRELIÇA: altura H8

Modelo ArcelorMittal **TB 8L TR8644**

CONCRETO:

Resistência de 20 MPa



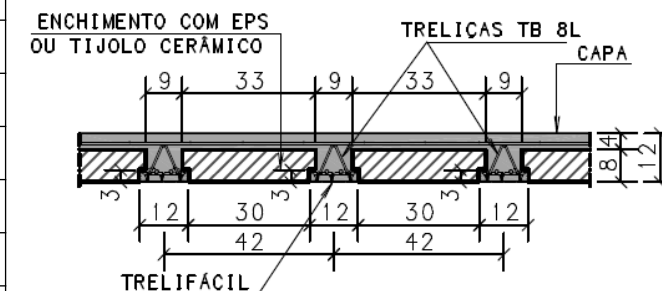
Matriz de vãos x cargas com indicação de barras de reforço

Cargas (kgf/m²)

Treliça ArcelorMittal TB 8L TR8644

Vão (m)	150	200	250	300	350	400	450	500	550	600	650	700	750
1,20	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5
1,40	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5
1,60	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5
1,80	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5
2,00	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	---	---
2,20	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	1 φ 6.3	---	---	---
2,40	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	1 φ 6	2 φ 5	---	---	---	---
2,60	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	1 φ 6.3	2 φ 5	2 φ 5	---	---	---	---	---
2,80	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	2 φ 5	2 φ 5	1 φ 8	---	---	---	---	---	---
3,00	1 φ 5	1 φ 5	1 φ 6.3	2 φ 5	2 φ 5	2 φ 6.3	---	---	---	---	---	---	---
3,20	1 φ 5	1 φ 6.3	2 φ 5	2 φ 5	2 φ 6.3	---	---	---	---	---	---	---	---
3,40	1 φ 6.3	2 φ 5	1 φ 8	2 φ 6.3	---	---	---	---	---	---	---	---	---
3,60	2 φ 5	2 φ 5	2 φ 6.3	1 φ 10	---	---	---	---	---	---	---	---	---
3,80	2 φ 5	2 φ 6.3	---	---	---	---	---	---	---	---	---	---	---
4,00	2 φ 6.3	2 φ 6	---	---	---	---	---	---	---	---	---	---	---

DETALHE LAJES NERVURADAS (H=12=8+4)



TABELAS DE PRÉ-DIMENSIONAMENTO – TRELIFÁCIL®



ArcelorMittal

TRELIÇA: altura H8

Modelo ArcelorMittal **TB 8M TR8645**

CONCRETO:

Resistência de 20 MPa



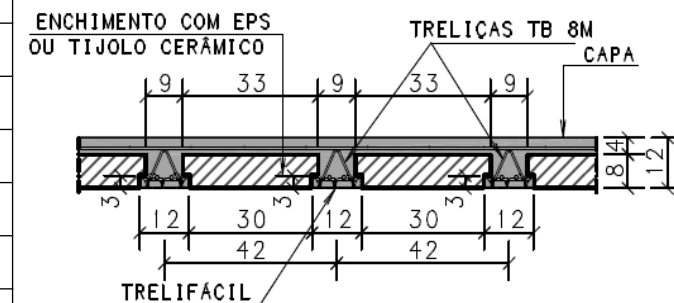
Matriz de vãos x cargas com indicação de barras de reforço

Cargas (kgf/m²)

Treliça ArcelorMittal TB 8M TR8645

Vão (m)	150	200	250	300	350	400	450	500	550	600	650	700	750
1,20	0	0	0	0	0	0	0	0	0	0	0	0	0
1,40	0	0	0	0	0	0	0	0	0	0	0	0	0
1,60	0	0	0	0	0	0	0	0	0	0	0	0	0
1,80	0	0	0	0	0	0	0	0	0	0	0	1 φ 5	1 φ 5
2,00	0	0	0	0	0	0	0	0	1 φ 5	1 φ 5	1 φ 5	---	---
2,20	0	0	0	0	0	0	1 φ 5	1 φ 5	1 φ 5	1 φ 5	---	---	---
2,40	0	0	0	0	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	---	---	---	---
2,60	0	0	0	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	---	---	---	---	---
2,80	0	0	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	2 φ 5	---	---	---	---	---	---
3,00	0	1 φ 5	1 φ 5	1 φ 5	1 φ 6	2 φ 5	---	---	---	---	---	---	---
3,20	1 φ 5	1 φ 5	1 φ 6.3	1 φ 6	2 φ 5	---	---	---	---	---	---	---	---
3,40	1 φ 5	1 φ 5	1 φ 6	2 φ 5	---	---	---	---	---	---	---	---	---
3,60	1 φ 5	1 φ 6	2 φ 5	2 φ 6.3	---	---	---	---	---	---	---	---	---
3,80	1 φ 6.3	2 φ 5	---	---	---	---	---	---	---	---	---	---	---
4,00	2 φ 5	2 φ 6.3	---	---	---	---	---	---	---	---	---	---	---

DETALHE LAJES NERVURADAS (H=12=8+4)



TABELAS DE PRÉ-DIMENSIONAMENTO – TRELIFÁCIL®



ArcelorMittal

TRELIÇA: altura H12

Modelo ArcelorMittal **TB 12M TR12645**

CONCRETO:

Resistência de 20 MPa



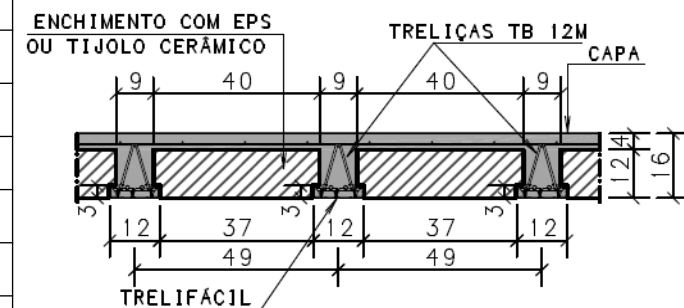
Matriz de vãos x cargas com indicação de barras de reforço

Cargas (kgf/m²)

Treliça ArcelorMittal TB 12M TR12645

Vão (m)	150	200	250	300	350	400	450	500	550	600	650	700	750
2,00	0	0	0	0	0	0	0	0	0	0	0	1 φ 5	1 φ 5
2,25	0	0	0	0	0	0	0	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	---
2,50	0	0	0	0	0	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	---	---
2,75	0	0	0	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	1 φ 6.3	---	---	---	---
3,00	0	0	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	1 φ 6	2 φ 5	---	---	---	---	---
3,25	0	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	2 φ 5	2 φ 5	---	---	---	---	---	---
3,50	1 φ 5	1 φ 5	1 φ 6.3	1 φ 6	2 φ 5	2 φ 6.3	---	---	---	---	---	---	---
3,75	1 φ 5	1 φ 6.3	2 φ 5	2 φ 5	2 φ 6.3	---	---	---	---	---	---	---	---
4,00	1 φ 6.3	2 φ 5	1 φ 8	2 φ 6.3	---	---	---	---	---	---	---	---	---
4,25	1 φ 6	2 φ 5	2 φ 6.3	1 φ 10	---	---	---	---	---	---	---	---	---
4,50	2 φ 5	2 φ 6.3	1 φ 10	---	---	---	---	---	---	---	---	---	---
4,75	2 φ 6.3	1 φ 10	2 φ 8	---	---	---	---	---	---	---	---	---	---
5,00	2 φ 6	2 φ 8	---	---	---	---	---	---	---	---	---	---	---
5,25	---	---	---	---	---	---	---	---	---	---	---	---	---
5,50	---	---	---	---	---	---	---	---	---	---	---	---	---

DETALHE LAJES NERVURADAS (H=16=12+4)



TABELAS DE PRÉ-DIMENSIONAMENTO – TRELIFÁCIL®



ArcelorMittal

TRELIÇA: altura H12

Modelo ArcelorMittal **TB 12R TR12646**

CONCRETO:

Resistência de 20 MPa



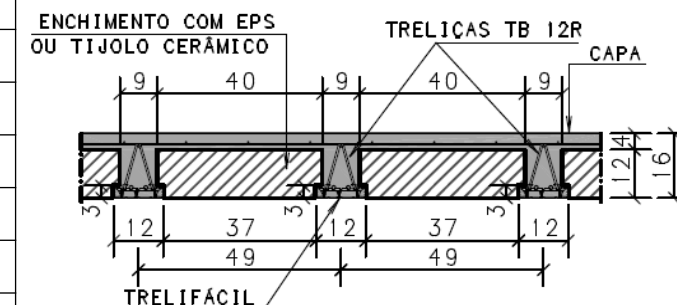
Matriz de vãos x cargas com indicação de barras de reforço

Cargas (kgf/m²)

Treliça ArcelorMittal TB 12R TR12646

Vão (m)	150	200	250	300	350	400	450	500	550	600	650	700	750
2,00	0	0	0	0	0	0	0	0	0	0	0	0	0
2,25	0	0	0	0	0	0	0	0	0	0	0	0	---
2,50	0	0	0	0	0	0	0	0	0	1 φ 5	1 φ 5	---	---
2,75	0	0	0	0	0	0	0	1 φ 5	1 φ 5	---	---	---	---
3,00	0	0	0	0	0	1 φ 5	1 φ 5	1 φ 5	---	---	---	---	---
3,25	0	0	0	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	---	---	---	---	---	---
3,50	0	0	1 φ 5	1 φ 5	1 φ 5	1 φ 6	---	---	---	---	---	---	---
3,75	0	1 φ 5	1 φ 5	1 φ 6.3	2 φ 5	---	---	---	---	---	---	---	---
4,00	1 φ 5	1 φ 5	1 φ 6.3	2 φ 5	---	---	---	---	---	---	---	---	---
4,25	1 φ 5	1 φ 6.3	2 φ 5	2 φ 6.3	---	---	---	---	---	---	---	---	---
4,50	1 φ 5	2 φ 5	2 φ 6.3	---	---	---	---	---	---	---	---	---	---
4,75	1 φ 6	1 φ 8	2 φ 6	---	---	---	---	---	---	---	---	---	---
5,00	2 φ 5	2 φ 6	---	---	---	---	---	---	---	---	---	---	---
5,25	---	---	---	---	---	---	---	---	---	---	---	---	---
5,50	---	---	---	---	---	---	---	---	---	---	---	---	---

DETALHE LAJES NERVURADAS (H=16=12+4)



TABELAS DE PRÉ-DIMENSIONAMENTO – TRELIFÁCIL®



ArcelorMittal

TRELIÇA: altura H16

Modelo ArcelorMittal **TB 16L TR16745**

CONCRETO:

Resistência de 20 MPa



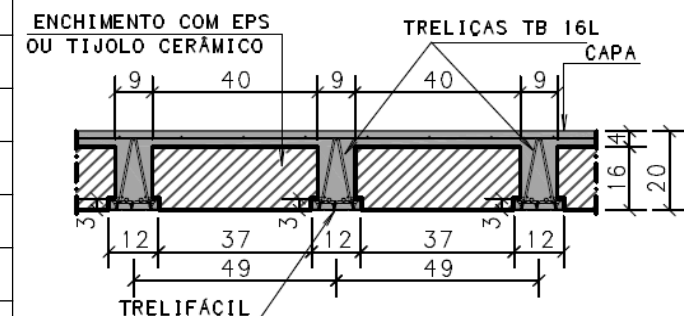
Matriz de vãos x cargas com indicação de barras de reforço

Cargas (kgf/m²)

Treliça ArcelorMittal TB 16L TR16745

Vão (m)	150	200	250	300	350	400	450	500	550	600	650	700	750
3,20	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	1 φ 6.3	2 φ 5	2 φ 5	---	---	---
3,45	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	2 φ 5	2 φ 5	1 φ 8	---	---	---	---
3,70	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	1 φ 6	2 φ 5	1 φ 8	2 φ 6.3	---	---	---	---	---
3,95	1 φ 5	1 φ 5	1 φ 6.3	2 φ 5	2 φ 5	2 φ 6.3	2 φ 6	---	---	---	---	---	---
4,20	1 φ 5	1 φ 6.3	2 φ 5	2 φ 5	2 φ 6.3	2 φ 6	---	---	---	---	---	---	---
4,45	1 φ 6.3	2 φ 5	1 φ 8	2 φ 6.3	1 φ 10	2 φ 8	---	---	---	---	---	---	---
4,70	1 φ 6	2 φ 5	2 φ 6.3	1 φ 10	2 φ 8	---	---	---	---	---	---	---	---
4,95	2 φ 5	2 φ 6.3	1 φ 10	2 φ 8	---	---	---	---	---	---	---	---	---
5,20	2 φ 6.3	2 φ 6	2 φ 8	2 φ 8	---	---	---	---	---	---	---	---	---
5,45	2 φ 6.3	2 φ 8	2 φ 8	1 φ 12.5	---	---	---	---	---	---	---	---	---
5,70	1 φ 10	2 φ 8	1 φ 12.5	---	---	---	---	---	---	---	---	---	---
5,95	2 φ 8	1 φ 12.5	---	---	---	---	---	---	---	---	---	---	---
6,20	2 φ 8	---	---	---	---	---	---	---	---	---	---	---	---
6,45	---	---	---	---	---	---	---	---	---	---	---	---	---
6,70	---	---	---	---	---	---	---	---	---	---	---	---	---

DETALHE LAJES NERVURADAS (H=20=16+4)



TABELAS DE PRÉ-DIMENSIONAMENTO – TRELIFÁCIL®



ArcelorMittal

TRELIÇA: altura H16

Modelo ArcelorMittal **TB 16R TR16746**

CONCRETO:

Resistência de 20 MPa



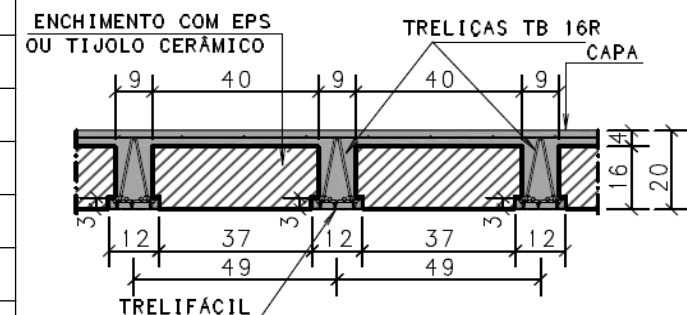
Matriz de vãos x cargas com indicação de barras de reforço

Cargas (kgf/m²)

Treliça ArcelorMittal TB 16R TR16746

Vão (m)	150	200	250	300	350	400	450	500	550	600	650	700	750
3,20	0	0	0	0	0	0	1 φ 5	1 φ 5	1 φ 5	1 φ 5	---	---	---
3,45	0	0	0	0	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	---	---	---	---
3,70	0	0	0	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	2 φ 5	---	---	---	---	---
3,95	0	0	1 φ 5	1 φ 5	1 φ 6.3	1 φ 6	2 φ 5	---	---	---	---	---	---
4,20	0	1 φ 5	1 φ 5	1 φ 6.3	2 φ 5	2 φ 5	---	---	---	---	---	---	---
4,45	1 φ 5	1 φ 5	1 φ 6.3	2 φ 5	1 φ 8	2 φ 6.3	---	---	---	---	---	---	---
4,70	1 φ 5	1 φ 6.3	2 φ 5	2 φ 6.3	2 φ 6	---	---	---	---	---	---	---	---
4,95	1 φ 5	2 φ 5	1 φ 8	2 φ 6	---	---	---	---	---	---	---	---	---
5,20	1 φ 6	2 φ 5	2 φ 6	1 φ 10	---	---	---	---	---	---	---	---	---
5,45	2 φ 5	2 φ 6.3	1 φ 10	2 φ 8	---	---	---	---	---	---	---	---	---
5,70	2 φ 6.3	1 φ 10	2 φ 8	---	---	---	---	---	---	---	---	---	---
5,95	2 φ 6	2 φ 8	---	---	---	---	---	---	---	---	---	---	---
6,20	1 φ 10	---	---	---	---	---	---	---	---	---	---	---	---
6,45	---	---	---	---	---	---	---	---	---	---	---	---	---
6,70	---	---	---	---	---	---	---	---	---	---	---	---	---

DETALHE LAJES NERVURADAS (H=20=16+4)



TABELAS DE PRÉ-DIMENSIONAMENTO – TRELIFÁCIL®



ArcelorMittal

TRELIÇA: altura H20

Modelo ArcelorMittal **TB 20L TR20745**

CONCRETO:

Resistência de 20 MPa



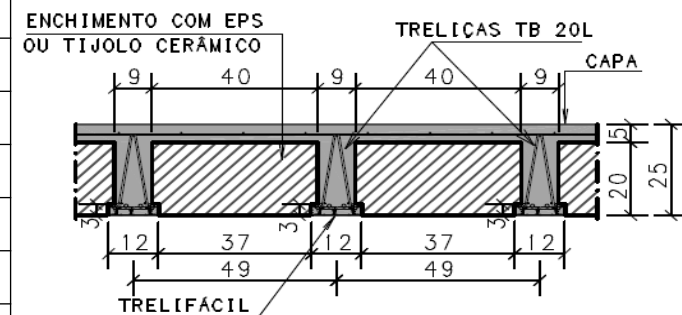
Matriz de vãos x cargas com indicação de barras de reforço

Cargas (kgf/m²)

Treliça ArcelorMittal TB 20L TR20745

Vão (m)	150	200	250	300	350	400	450	500	550	600	650	700	750
3,05	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	1 φ 6.3	1 φ 6
3,40	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	1 φ 6.3	2 φ 5	2 φ 5	2 φ 5	2 φ 6.3
3,75	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	2 φ 5	2 φ 5	1 φ 8	2 φ 6.3	2 φ 6.3	---	---
4,10	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	2 φ 5	2 φ 5	2 φ 6.3	2 φ 6.3	2 φ 6	---	---	---	---
4,45	1 φ 5	1 φ 6.3	2 φ 5	2 φ 5	2 φ 6.3	2 φ 6.3	1 φ 10	1 φ 10	---	---	---	---	---
4,80	1 φ 6.3	2 φ 5	1 φ 8	2 φ 6.3	1 φ 10	1 φ 10	2 φ 8	---	---	---	---	---	---
5,15	2 φ 5	1 φ 8	2 φ 6.3	1 φ 10	2 φ 8	2 φ 8	---	---	---	---	---	---	---
5,50	2 φ 6.3	2 φ 6	1 φ 10	2 φ 8	1 φ 12.5	---	---	---	---	---	---	---	---
5,85	2 φ 6	2 φ 8	2 φ 8	1 φ 12.5	---	---	---	---	---	---	---	---	---
6,20	1 φ 10	2 φ 8	1 φ 12.5	2 φ 10	---	---	---	---	---	---	---	---	---
6,55	2 φ 8	1 φ 12.5	2 φ 10	---	---	---	---	---	---	---	---	---	---
6,90	1 φ 12.5	2 φ 10	2 φ 10	---	---	---	---	---	---	---	---	---	---
7,25	2 φ 10	2 φ 10	---	---	---	---	---	---	---	---	---	---	---
7,60	---	---	---	---	---	---	---	---	---	---	---	---	---
7,95	---	---	---	---	---	---	---	---	---	---	---	---	---

DETALHE LAJES NERVURADAS (H=25=20+5)



TABELAS DE PRÉ-DIMENSIONAMENTO – TRELIFÁCIL®



ArcelorMittal

TRELIÇA: altura H20

Modelo ArcelorMittal **TB 20R TR20756**

CONCRETO:

Resistência de 20 MPa



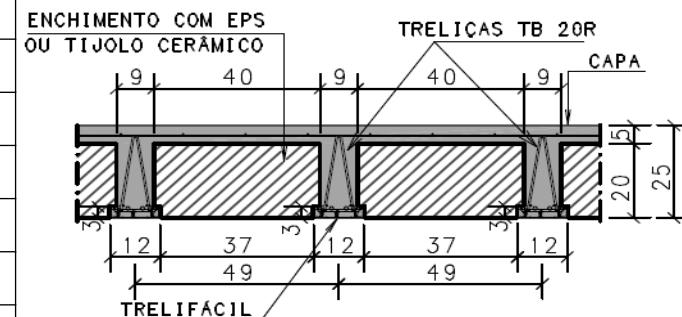
Matriz de vãos x cargas com indicação de barras de reforço

Cargas (kgf/m²)

Treliça ArcelorMittal TB 20R TR20756

Vão (m)	150	200	250	300	350	400	450	500	550	600	650	700	750
3,05	0	0	0	0	0	0	0	0	0	0	1 φ 5	1 φ 5	1 φ 5
3,40	0	0	0	0	0	0	0	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	1 φ 6.3
3,75	0	0	0	0	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	1 φ 6	2 φ 5	---	---
4,10	0	0	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	2 φ 5	2 φ 5	---	---	---	---
4,45	0	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	2 φ 5	1 φ 8	2 φ 6.3	---	---	---	---	---
4,80	1 φ 5	1 φ 5	1 φ 6.3	2 φ 5	1 φ 8	2 φ 6.3	2 φ 6	---	---	---	---	---	---
5,15	1 φ 5	1 φ 6.3	2 φ 5	2 φ 6.3	2 φ 6	1 φ 10	---	---	---	---	---	---	---
5,50	1 φ 6.3	2 φ 5	2 φ 6.3	1 φ 10	2 φ 8	---	---	---	---	---	---	---	---
5,85	2 φ 5	2 φ 6.3	1 φ 10	2 φ 8	---	---	---	---	---	---	---	---	---
6,20	2 φ 6.3	1 φ 10	2 φ 8	1 φ 12.5	---	---	---	---	---	---	---	---	---
6,55	1 φ 10	2 φ 8	1 φ 12.5	---	---	---	---	---	---	---	---	---	---
6,90	2 φ 8	1 φ 12.5	2 φ 10	---	---	---	---	---	---	---	---	---	---
7,25	1 φ 12.5	2 φ 10	---	---	---	---	---	---	---	---	---	---	---
7,60	---	---	---	---	---	---	---	---	---	---	---	---	---
7,95	---	---	---	---	---	---	---	---	---	---	---	---	---

DETALHE LAJES NERVURADAS (H=25=20+5)



TABELAS DE PRÉ-DIMENSIONAMENTO – TRELIFÁCIL®



ArcelorMittal

TRELIÇA: altura H25

Modelo ArcelorMittal **TB 25M TR25856**

CONCRETO:

Resistência de 20 MPa



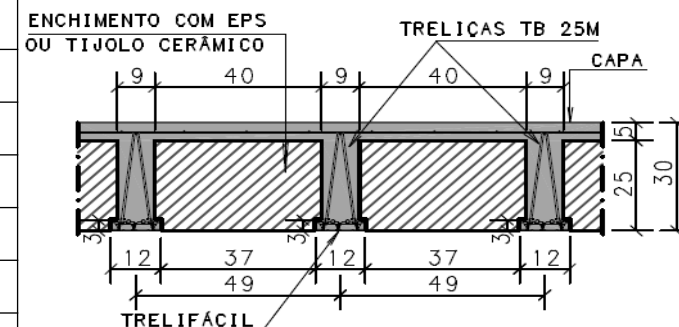
Matriz de vãos x cargas com indicação de barras de reforço

Cargas (kgf/m²)

Treliça ArcelorMittal TB 25M TR25856

Vão (m)	150	200	250	300	350	400	450	500	550	600	650	700	750
3,65	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3
4,00	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	2 φ 5	2 φ 5	2 φ 5
4,35	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	1 φ 6	2 φ 5	2 φ 5	2 φ 6.3	---	---
4,70	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	1 φ 6	2 φ 5	1 φ 8	2 φ 6.3	2 φ 6	---	---	---
5,05	1 φ 5	1 φ 5	1 φ 5	1 φ 6	2 φ 5	1 φ 8	2 φ 6.3	1 φ 10	1 φ 10	---	---	---	---
5,40	1 φ 5	1 φ 6.3	2 φ 5	2 φ 5	2 φ 6.3	2 φ 6	1 φ 10	2 φ 8	---	---	---	---	---
5,75	1 φ 6.3	2 φ 5	1 φ 8	2 φ 6.3	1 φ 10	2 φ 8	2 φ 8	---	---	---	---	---	---
6,10	2 φ 5	2 φ 6.3	2 φ 6	1 φ 10	2 φ 8	1 φ 12.5	---	---	---	---	---	---	---
6,45	1 φ 8	2 φ 6	2 φ 8	2 φ 8	1 φ 12.5	---	---	---	---	---	---	---	---
6,80	2 φ 6	2 φ 8	2 φ 8	1 φ 12.5	2 φ 10	---	---	---	---	---	---	---	---
7,15	1 φ 10	2 φ 8	1 φ 12.5	2 φ 10	---	---	---	---	---	---	---	---	---
7,50	2 φ 8	1 φ 12.5	2 φ 10	---	---	---	---	---	---	---	---	---	---
7,85	1 φ 12.5	2 φ 10	2 φ 10	---	---	---	---	---	---	---	---	---	---
8,20	2 φ 10	2 φ 10	---	---	---	---	---	---	---	---	---	---	---
8,55	2 φ 10	---	---	---	---	---	---	---	---	---	---	---	---

DETALHE LAJES NERVURADAS (H=30=25+5)



TABELAS DE PRÉ-DIMENSIONAMENTO – TRELIFÁCIL®



ArcelorMittal

TRELIÇA: altura H25

Modelo ArcelorMittal **TB 25R TR25858**

CONCRETO:

Resistência de 20 MPa



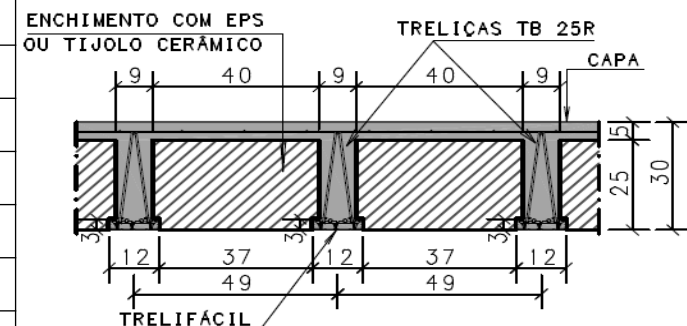
Matriz de vãos x cargas com indicação de barras de reforço

Cargas (kgf/m²)

Treliça ArcelorMittal TB 25R TR25858

Vão (m)	150	200	250	300	350	400	450	500	550	600	650	700	750
3,65	0	0	0	0	0	0	0	0	0	0	0	0	0
4,00	0	0	0	0	0	0	0	0	0	0	0	0	0
4,35	0	0	0	0	0	0	0	0	0	0	1 φ 5	---	---
4,70	0	0	0	0	0	0	0	0	1 φ 5	1 φ 5	---	---	---
5,05	0	0	0	0	0	0	1 φ 5	1 φ 5	1 φ 6.3	---	---	---	---
5,40	0	0	0	0	1 φ 5	1 φ 5	1 φ 6.3	2 φ 5	---	---	---	---	---
5,75	0	0	0	1 φ 5	1 φ 5	1 φ 6	2 φ 5	---	---	---	---	---	---
6,10	0	0	1 φ 5	1 φ 6.3	2 φ 5	2 φ 6.3	---	---	---	---	---	---	---
6,45	0	1 φ 5	1 φ 6.3	2 φ 5	2 φ 6.3	---	---	---	---	---	---	---	---
6,80	1 φ 5	1 φ 6.3	2 φ 5	2 φ 6.3	1 φ 10	---	---	---	---	---	---	---	---
7,15	1 φ 6.3	2 φ 5	2 φ 6.3	2 φ 8	---	---	---	---	---	---	---	---	---
7,50	2 φ 5	2 φ 6.3	2 φ 8	---	---	---	---	---	---	---	---	---	---
7,85	2 φ 6.3	1 φ 10	2 φ 8	---	---	---	---	---	---	---	---	---	---
8,20	1 φ 10	2 φ 8	---	---	---	---	---	---	---	---	---	---	---
8,55	2 φ 8	---	---	---	---	---	---	---	---	---	---	---	---

DETALHE LAJES NERVURADAS (H=30=25+5)



TABELAS DE PRÉ-DIMENSIONAMENTO – TRELIFÁCIL®



ArcelorMittal

TRELIÇA: altura H30

Modelo ArcelorMittal **TB 30M TR30856**

CONCRETO:

Resistência de 20 MPa



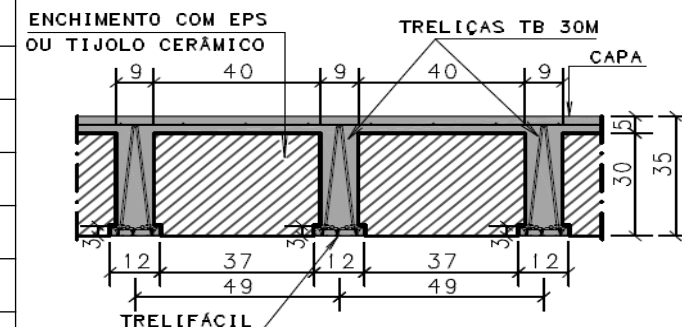
Matriz de vãos x cargas com indicação de barras de reforço

Carga (kgf/m²)

Treliça ArcelorMittal TB 30M TR30856

Vão (m)	150	200	250	300	350	400	450	500	550	600	650	700	750
3,60	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5
4,06	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	1 φ 6
4,51	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	1 φ 6	2 φ 5	2 φ 5	2 φ 6.3	2 φ 6.3
4,97	1 φ 5	1 φ 5	1 φ 5	1 φ 5	1 φ 6.3	1 φ 6	2 φ 5	2 φ 5	2 φ 6.3	2 φ 6.3	1 φ 10	---	---
5,43	1 φ 5	1 φ 5	1 φ 6.3	1 φ 6	2 φ 5	2 φ 6.3	2 φ 6.3	1 φ 10	1 φ 10	2 φ 8	---	---	---
5,89	1 φ 5	1 φ 6.3	2 φ 5	2 φ 6.3	2 φ 6.3	1 φ 10	2 φ 8	2 φ 8	---	---	---	---	---
6,34	1 φ 6	2 φ 5	2 φ 6.3	1 φ 10	2 φ 8	2 φ 8	1 φ 12.5	---	---	---	---	---	---
6,80	1 φ 8	2 φ 6	1 φ 10	2 φ 8	1 φ 12.5	1 φ 12.5	---	---	---	---	---	---	---
7,26	2 φ 6	2 φ 8	2 φ 8	1 φ 12.5	2 φ 10	---	---	---	---	---	---	---	---
7,71	2 φ 8	1 φ 12.5	1 φ 12.5	2 φ 10	2 φ 12.5	---	---	---	---	---	---	---	---
8,17	1 φ 12.5	1 φ 12.5	2 φ 10	2 φ 12.5	---	---	---	---	---	---	---	---	---
8,63	1 φ 12.5	2 φ 10	2 φ 12.5	---	---	---	---	---	---	---	---	---	---
9,09	2 φ 10	2 φ 12.5	2 φ 12.5	---	---	---	---	---	---	---	---	---	---
9,54	2 φ 12.5	2 φ 12.5	---	---	---	---	---	---	---	---	---	---	---
10,00	---	---	---	---	---	---	---	---	---	---	---	---	---

DETALHE LAJES NERVURADAS (H=35=30+5)



TABELAS DE PRÉ-DIMENSIONAMENTO – TRELIFÁCIL®



ArcelorMittal

TRELIÇA: altura H30

Modelo ArcelorMittal **TB 30R TR30858**

CONCRETO:

Resistência de 20 MPa



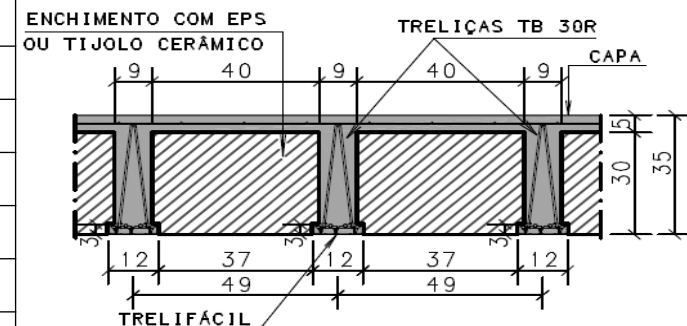
Matriz de vãos x cargas com indicação de barras de reforço

Carga (kgf/m²)

Treliça ArcelorMittal TB 30R TR30858

Vão (m)	150	200	250	300	350	400	450	500	550	600	650	700	750
3,60	0	0	0	0	0	0	0	0	0	0	0	0	0
4,06	0	0	0	0	0	0	0	0	0	0	0	0	0
4,51	0	0	0	0	0	0	0	0	0	0	0	0	1 φ 5
4,97	0	0	0	0	0	0	0	0	1 φ 5	1 φ 5	1 φ 5	---	---
5,43	0	0	0	0	0	0	1 φ 5	1 φ 5	1 φ 6.3	2 φ 5	---	---	---
5,89	0	0	0	0	1 φ 5	1 φ 5	1 φ 6.3	2 φ 5	---	---	---	---	---
6,34	0	0	1 φ 5	1 φ 5	1 φ 6.3	2 φ 5	2 φ 6.3	---	---	---	---	---	---
6,80	0	1 φ 5	1 φ 6.3	2 φ 5	2 φ 6.3	2 φ 6	---	---	---	---	---	---	---
7,26	1 φ 5	1 φ 6.3	2 φ 5	2 φ 6.3	1 φ 10	---	---	---	---	---	---	---	---
7,71	1 φ 6.3	1 φ 8	2 φ 6	2 φ 8	1 φ 12.5	---	---	---	---	---	---	---	---
8,17	1 φ 8	1 φ 10	2 φ 8	1 φ 12.5	---	---	---	---	---	---	---	---	---
8,63	1 φ 10	2 φ 8	1 φ 12.5	---	---	---	---	---	---	---	---	---	---
9,09	2 φ 8	1 φ 12.5	2 φ 10	---	---	---	---	---	---	---	---	---	---
9,54	1 φ 12.5	2 φ 10	---	---	---	---	---	---	---	---	---	---	---
10,00	---	---	---	---	---	---	---	---	---	---	---	---	---

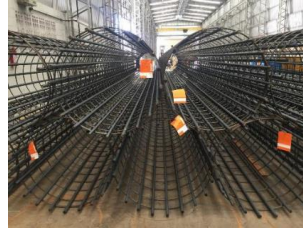
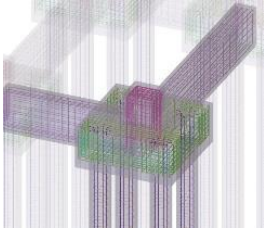
DETALHE LAJES NERVURADAS (H=35=30+5)



Soluções ArcelorMittal em aços para Construção Civil

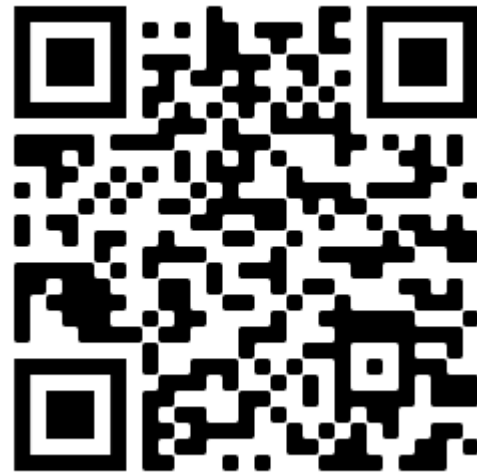


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