italpannelli

# ITPLAMIERE

Coperture e Rivestimenti

# ITP**LAMIERE**

Gamma completa

Lamiere grecate per coperture e rivestimenti in accordo norma UNI EN 14782

Corrugated sheets for roofing and cladding according to UNI EN 14782

## ITP**H20**

## ITP**H28**

## ITP**H38**

## ITP**H40**

## ITP**H55**

## ITP**H75**

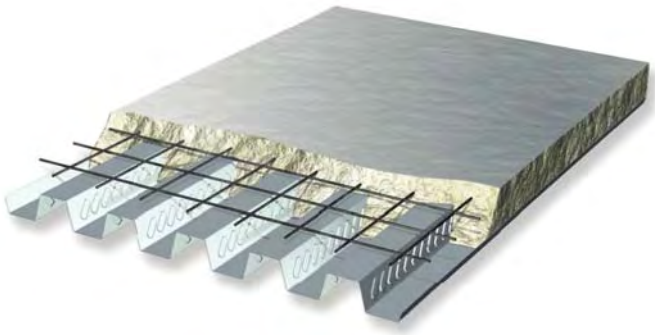
## ITP**H106**

## ITP**MONO28**

Lamiere grecate strutturali per solai collaboranti in accordo norma EN 1090-1

Collaborating trapezoidal steel sheets to be used for composite floor steel/concrete according to EN 1090-1

## ITP**H55 BETON**



RINA SERVICES

Organismo Notificato/Notified body N./No. 0474
RINA Services S.p.A.
Via Corsica, 12 – 16128 Genova (GE)
Italy

**CERTIFICATO DI CONFORMITÀ DEL CONTROLLO DELLA PRODUZIONE IN FABBRICA /**
***CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL***
**N./No. 0474-CPR-0960**

In conformità al Regolamento N. 305/2011/EU del Parlamento Europeo e del Consiglio del 9 marzo 2011 *(Regolamento Prodotti da Costruzione o CPR)*, questo certificato si applica al prodotto da costruzione /
*In compliance with Regulation No. 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product*

**Componenti strutturali e kit per strutture di acciaio /**
***Structural components and kits for steel structures***

come descritto nell'allegato al presente certificato / *as described in the annex t*

prodotto dal fabbricante / *produced by the manufacturer*

**ITALPANNELLI S.R.L.**

**Strada Provinciale Bonifica km 13,500 - 64010 Ancar**

nello stabilimento di produzione / *in the manufacturing plant*

**Strada Provinciale Bonifica km 13,500 - 64010 Ancar**

Il presente certificato attesta che tutte le disposizioni riguardanti la valutazione e la verifica de
descritte nell'Allegato ZA della norma /
*This certificate attests that all provisions concerning the assessment and verification of c*
*described in Annex ZA of the standard*

**EN 1090-1:2009/A1:2011**

nell'ambito del sistema 2+, sono applicate e che / *under system 2+, are app*

**il controllo della produzione in fabbrica soddisfa tutti i requisiti p**
***the factory production control fulfils all the prescribed requiren***

Il presente certificato è stato emesso la prima volta il 25/09/2014 ed ha validità sino a che i
del controllo della produzione in fabbrica stabiliti nella norma armonizzata di cui sopra, utilizz
delle caratteristiche dichiarate, non cambino, e il prodotto e le condizioni di produzione nell
modifiche significative.
*This certificate was first issued on 25/09/2014 and will remain valid as long as the test meth*
*control requirements included in the harmonised standard set out above, used to assess the*
*characteristics, do not change, and the product, and the manufacturing conditions in the plant*

Genova, 25/09/2014

Il Direttore Te

Revisione n. / Revision no.: 0

RINA Services S.p.A. | C.F. / P. Iva / R.I. Genova N. 03487840155 | Cap. Soc. € 30.000.000,00 i.v. | www.rina

RINA SERVICES

Organismo Notificato/Notified body N./No. 0474
RINA Services S.p.A.
Via Corsica, 12 – 16128 Genova (GE)
Italy

**ALLEGATO AL CERTIFICATO DI CONFORMITÀ DEL CONTROLLO DELLA PRODUZIONE IN FABBRICA /**
***ANNEX TO CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL***
**N./No. 0474-CPR-0960**

DESCRIZIONE DEI PRODOTTI OGGETTO DEL CERTIFICATO /
*DESCRIPTION OF PRODUCTS TO WHICH THE CERTIFICATE REFERS*

| | |
|---|---|
| **Tipologia componenti /** ***Type of component*** | Lamiere grecate per solai composti acciaio-calcestruzzo<br>Manufatti in acciaio saldati per carpenteria strutturale<br>*Single sheet for steel-concrete collaborating floors*<br>*Welded steel components for structural works* |
| **Norma – requisiti tecnici** ***Standard – technical requirements*** | EN 1090-1 / EN 1090-2 |
| **Classe/i di esecuzione /** ***Execution class(es)*** | EXC1; EXC2; EXC3 |
| **Metodo/i di Marcatura CE /** ***Method(s) CE marking*** | 1; 3a; 3b |
| **Procedimento/i di saldatura EN ISO 4063 /** ***Welding process(es) EN ISO 4063*** | 135 |
| **Materiale/i base ISO/TR 15608 /** ***Parent material(s) ISO/TR 15608*** | Gruppi 1.1; 1.2<br>Groups 1.1; 1.2 |
| **Nominativo del coordinatore di saldatura /** ***Name of responsible welding coordinator*** | MATTIOLI Pasquale |

Genova, 25/09/2014

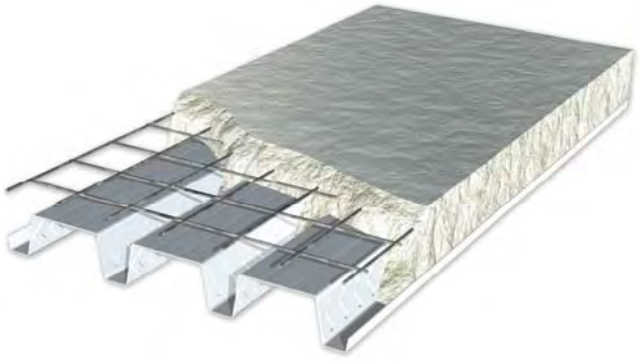
RINA Services S.p.A.
Il Direttore Tecnico / *Technical manager*

Revisione n. / Revision no.: 0

(Ing. Paolo SALZA)

RINA Services S.p.A. | Società a socio unico RINA S.p.A. | Via Corsica, 12 – 16128 Genova | C.F. / P. Iva / R.I. Genova N. 03487840155 | Cap. Soc. € 30.000.000,00 i.v. | Tel. +39 010 53851 – Fax +39 010 5385200 | www.rina.org – info@rina.org

## ITP**H75 BETON**



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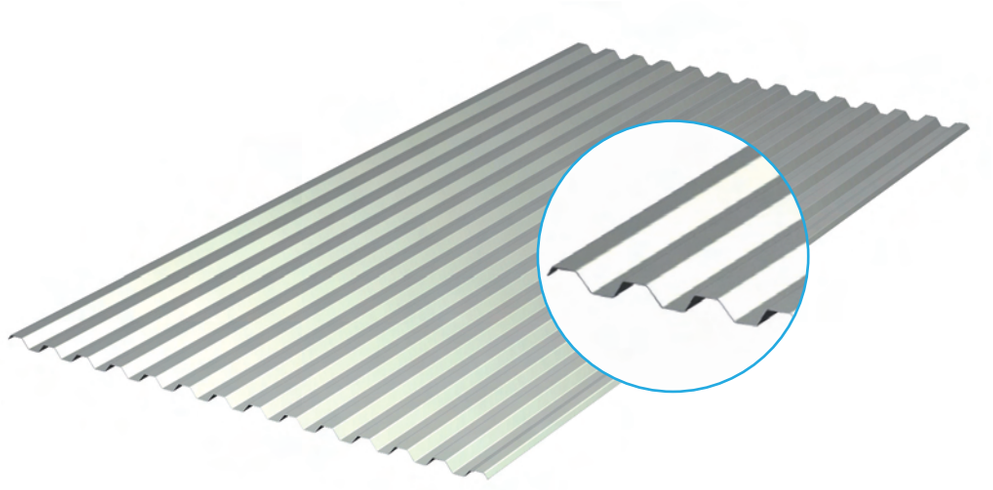
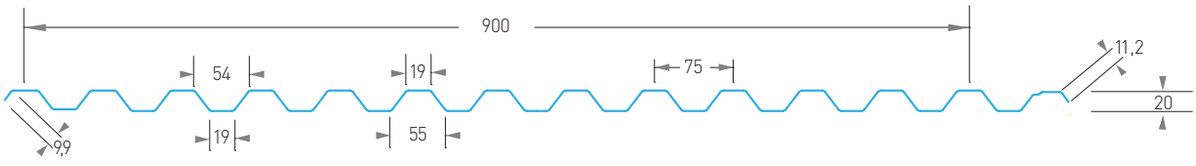
# ITP **H20 /1010**
# ITP **H20 /1212**



## [**14 Greche/Ribs**] - Passo greche / Ribs step 75 mm
Modulo utile / Working width 900 mm

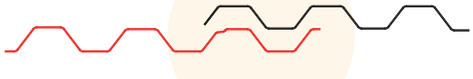
Particolare del giunto / Joint view

DISEGNO TECNICO - TECHNICAL DRAWING




## [**16 Greche/Ribs**] - Passo greche / Ribs step 75 mm
Modulo utile / Working width 1125 mm

Particolare del giunto / Joint view



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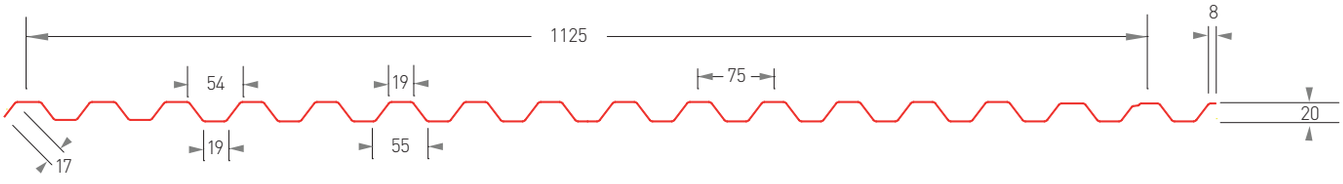
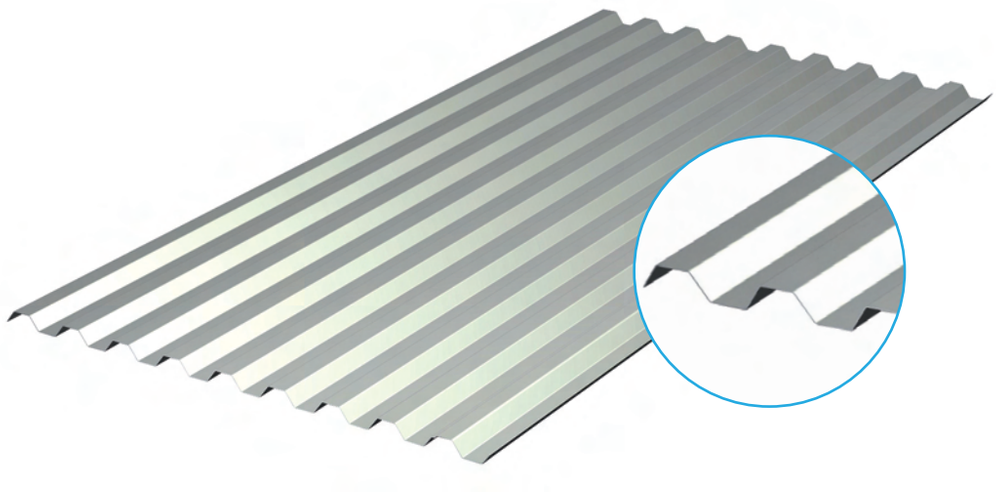
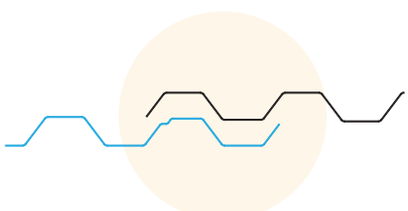


# ITP H28 / 1012
# ITP H28 / 1233

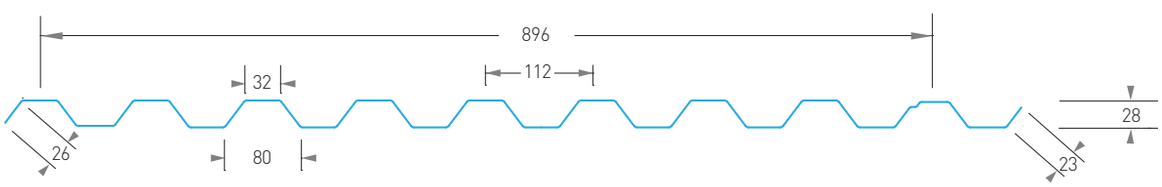


Particolare del giunto / Joint view

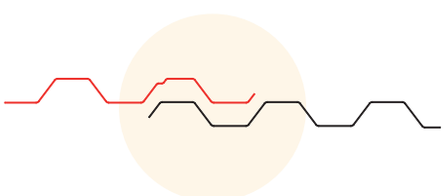


[**9 Greche/Ribs**] - Passo greche / Ribs step 112 mm
Modulo utile / Working width 896 mm

DISEGNO TECNICO - TECHNICAL DRAWING

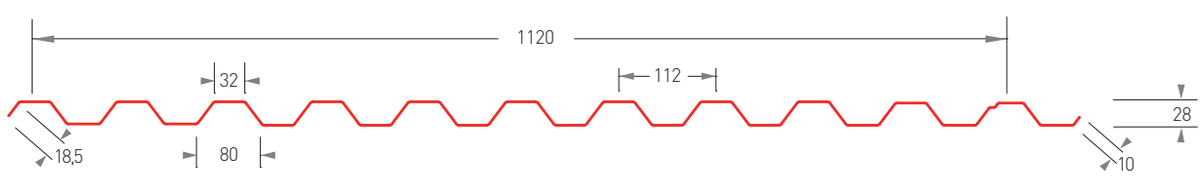



Particolare del giunto / Joint view

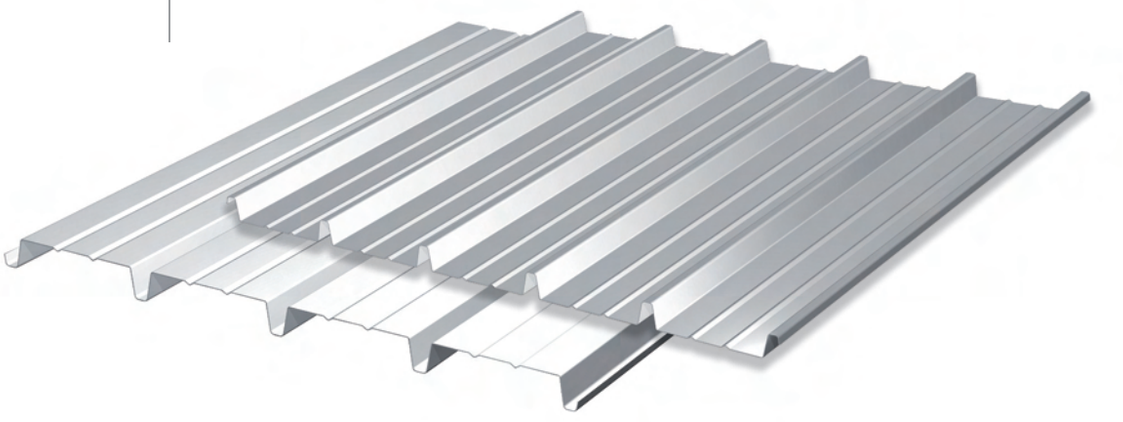


[**11 Greche/Ribs** ] - Passo greche / Ribs step 112 mm
Modulo utile / Working width 1120 mm

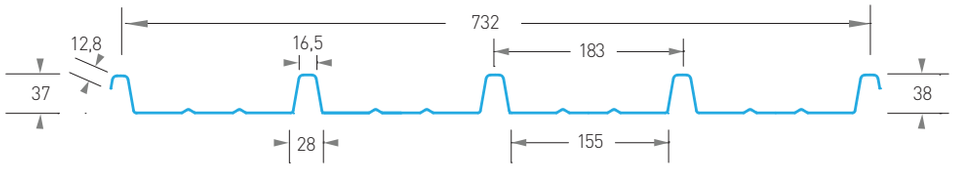
DISEGNO TECNICO - TECHNICAL DRAWING



# ITP **H38 / 732 - ITP H38 / 915**



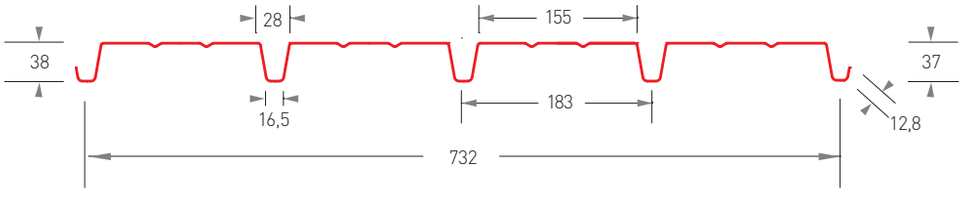
## ITP **H38** / 732 / D




[**5 Greche/Ribs**]
Passo greche
Ribs step 183 mm

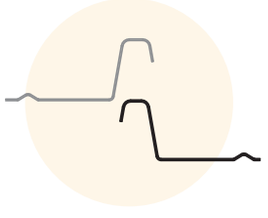
Modulo utile
Working width 732 mm

## ITP **H38** / 732 / R




DISEGNO TECNICO - TECHNICAL DRAWING

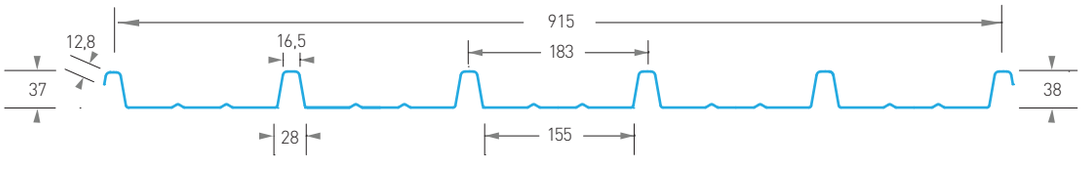
Particolare del giunto / Joint view



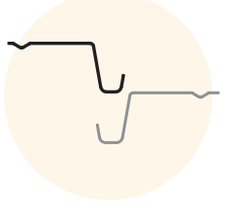
[**6 Greche/Ribs**]
Passo greche
Ribs step 183 mm

Modulo utile
Working width 915 mm

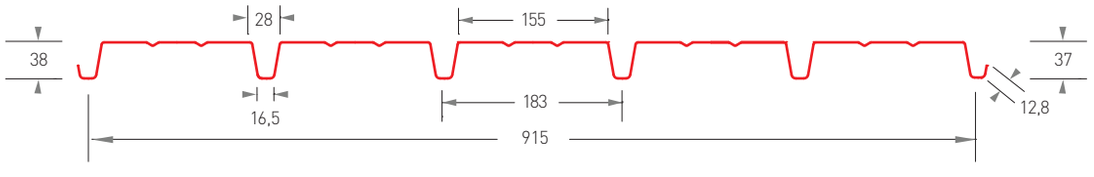
## ITP **H38** / 915 / D




Particolare del giunto / Joint view



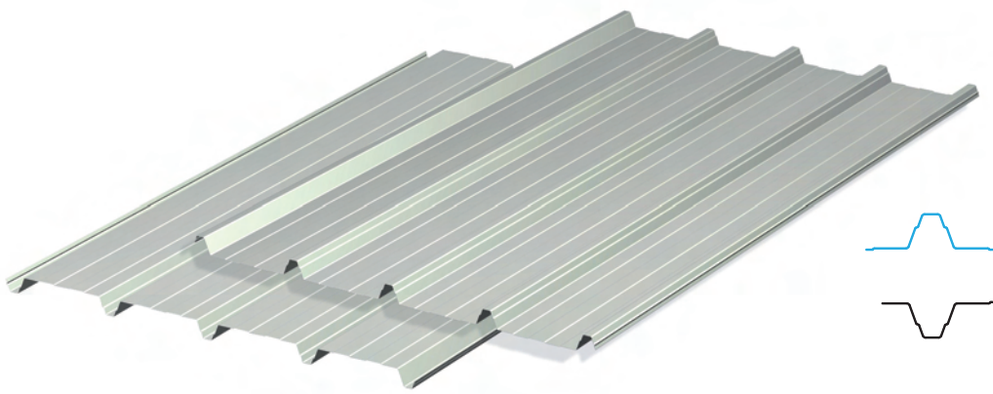
## ITP **H38** / 915 / R



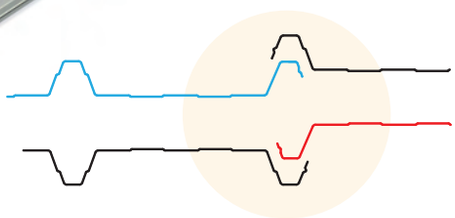

DISEGNO TECNICO - TECHNICAL DRAWING

# ITP **H40 e H40 Pda/1000**

[**5 greche/Ribs**] Passo greche / Ribs step 250 mm
Modulo utile / Working width 1000 mm

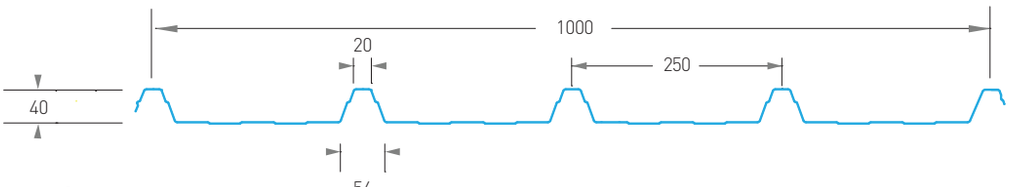


Particolare del giunto / Joint view

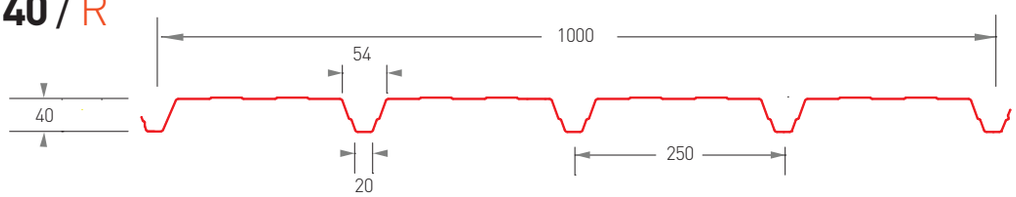


## ITP **H40** / D

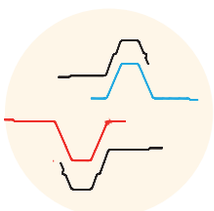
DISEGNO TECNICO - TECHNICAL DRAWING




## ITP **H40** / R




Particolare del giunto / Joint view



## ITP **H40 PdA** / D

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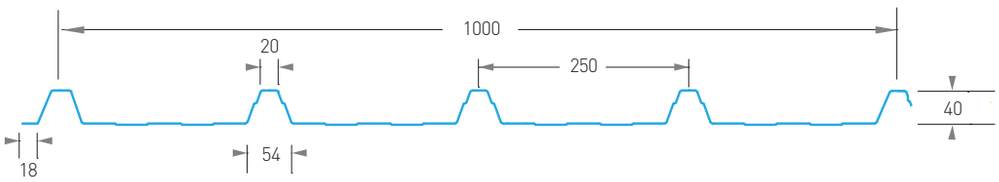


## ITP **H40 PdA** / R

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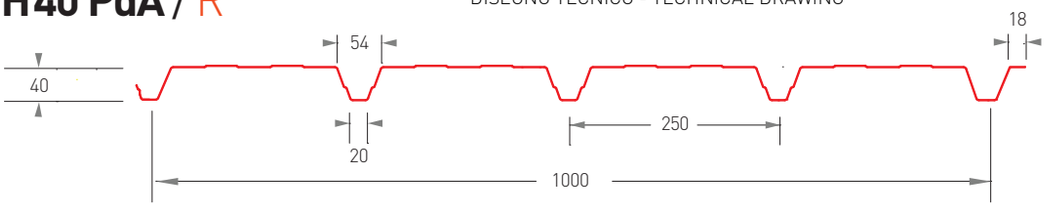
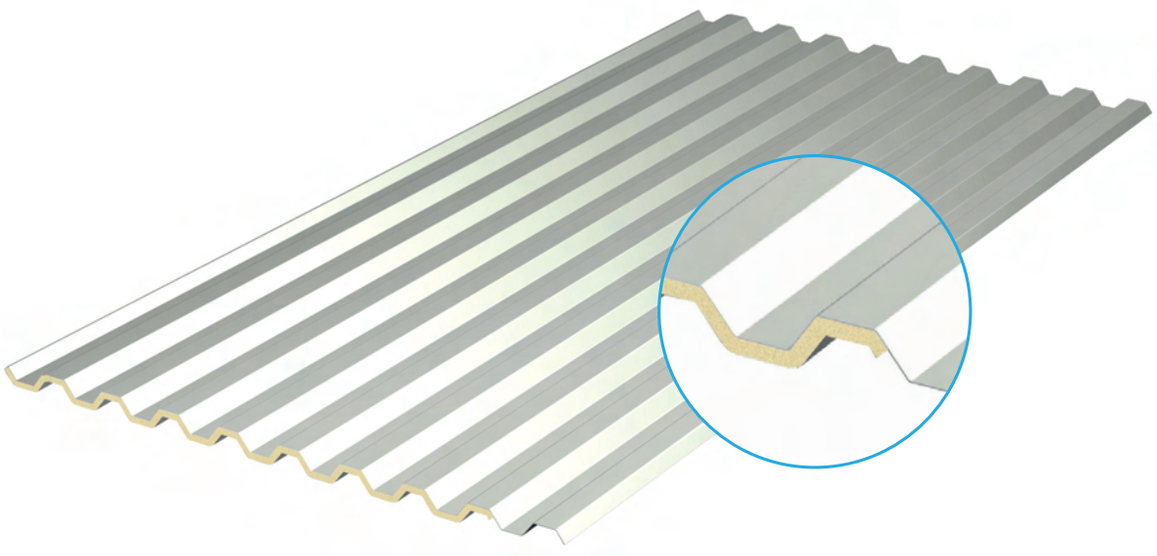


# ITP **MONO 28/1012**

Pannello mono lamiera - Single sheet panel

LASTRA GRECATA PROFILO 28 RIVESTITA DA 1 CM DI POLIURETANO NUDO
SINGLE SHEET PROFILE 28 COVERED BY 1 CM OF BARE PU

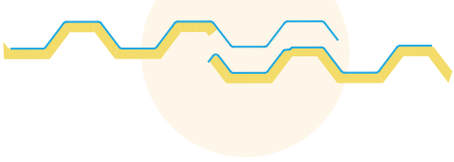


[**9 Greche/Ribs**] - Passo greche / Ribs step 112 mm - Modulo utile / Working width 896 mm

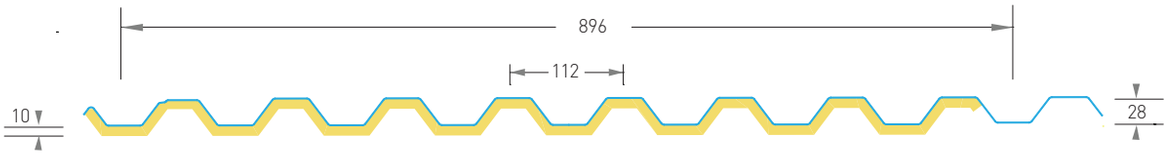
**Vantaggi rispetto ad una lamiera grecata - Advantages over bare single sheet**

- Maggiore isolamento acustico - Better acoustic insulation
- Riduzione del fenomeno della condensa - Reduction of condensation phenomenal
- Maggiore resistenza alla grandine - Better resistance to hail
- Creazione tetto caldo ventilato - Realization warm ventilated roof
- Maggiore resistenza al calpestio - Better resistance to walking

Particolare del giunto - Joint view



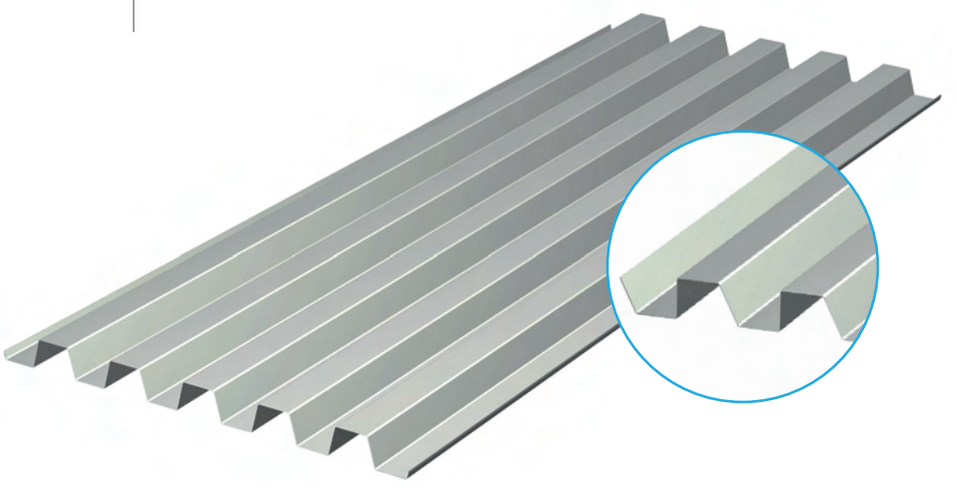
DISEGNO TECNICO - TECHNICAL DRAWING



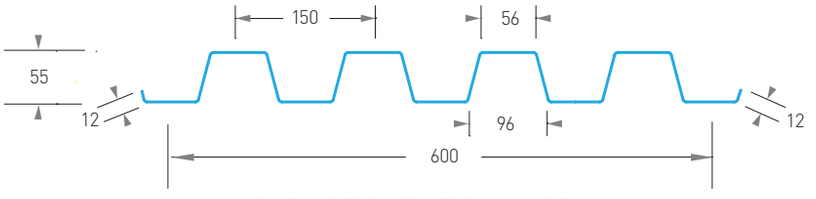

Versioni speciali - Special version

Alluminio centesimale goffrato - Centesimal embossed aluminum
- COLORE NEUTRO - NEUTRAL COLOR
- COLORE BIANCO - WHITE COLOR

# ITP **H55 / 600** - ITP **H55 / 750** - ITP **H55 / 900**

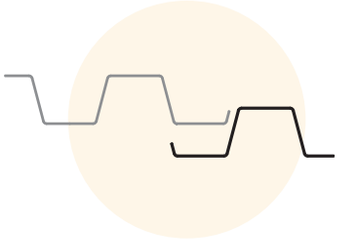


## [5 **Greche/Ribs**] - Passo greche / Ribs step 150 mm
Modulo utile / Working width 600 mm

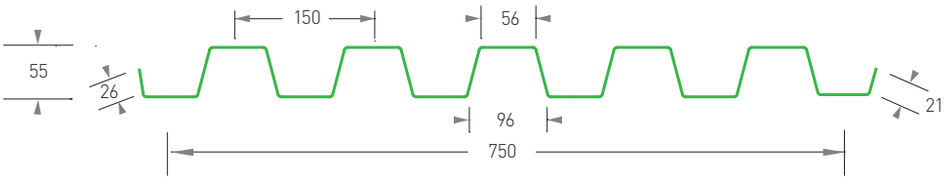



DISEGNO TECNICO - TECHNICAL DRAWING

Particolare del giunto / Joint view

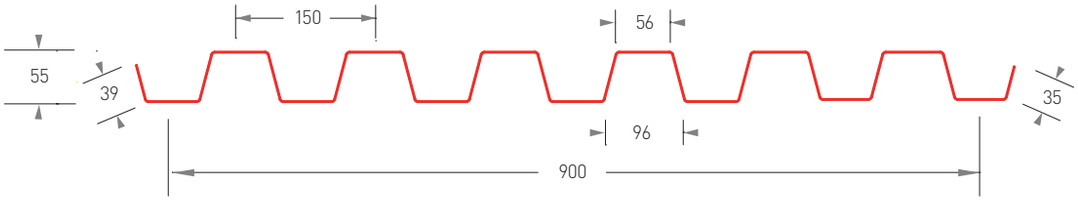


## [6 **Greche/Ribs**] - Passo greche / Ribs step 150 mm
Modulo utile / Working width 750 mm




DISEGNO TECNICO - TECHNICAL DRAWING

## [7 **Greche/Ribs**] - Passo greche / Ribs step 150 mm
Modulo utile / Working width 900 mm




DISEGNO TECNICO - TECHNICAL DRAWING

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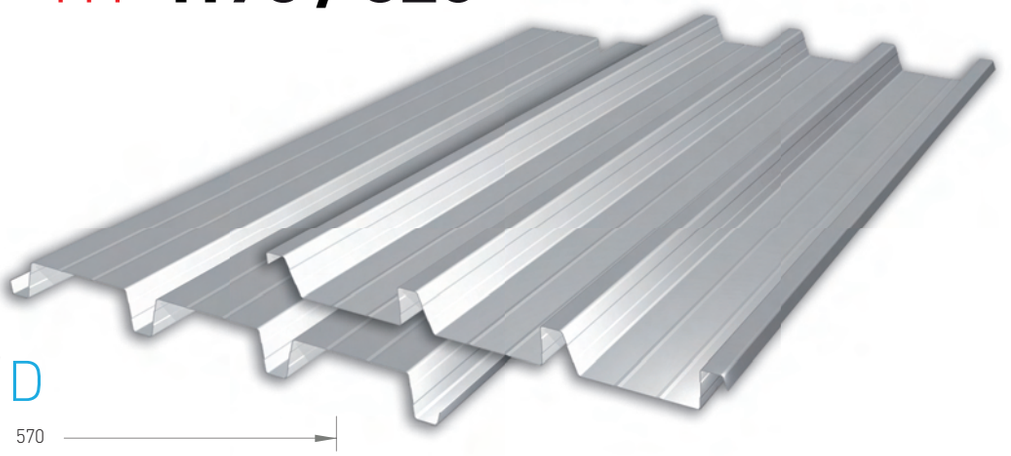
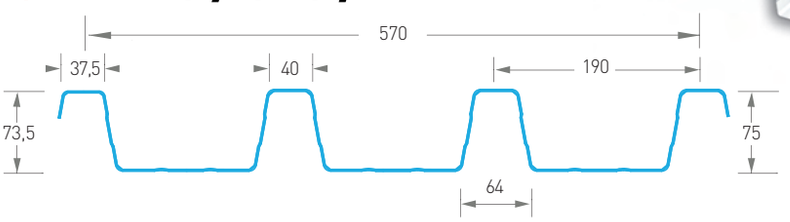
# ITP **H75 / 570**
# ITP **H75 / 820**

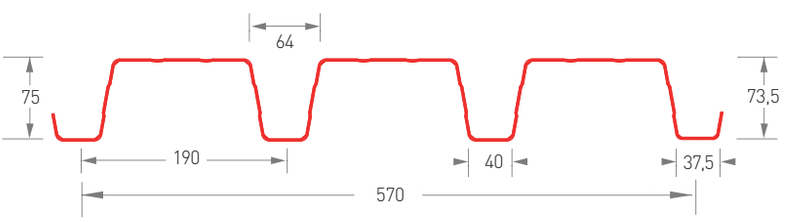


## ITP **H75 / 570 /** D

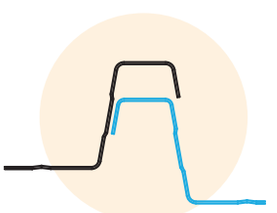



[**4 Greche / Ribs**]
Passo greche / Ribs step 190 mm
Modulo utile / Working width 570 mm

## ITP **H75 / 570 /** R

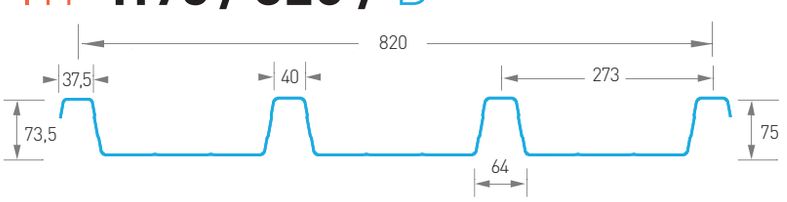



DISEGNO TECNICO - TECHNICAL DRAWING



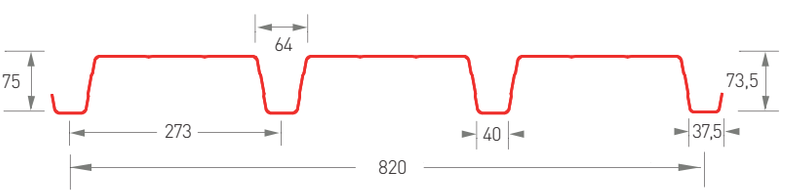
Particolare del giunto / Joint view

## ITP **H75 / 820 /** D

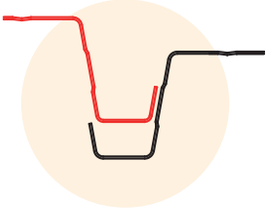



[**4 Greche / Ribs**]
Passo greche / Ribs step 273 mm
Modulo utile / Working width 820 mm

## ITP **H75 / 820 /** R

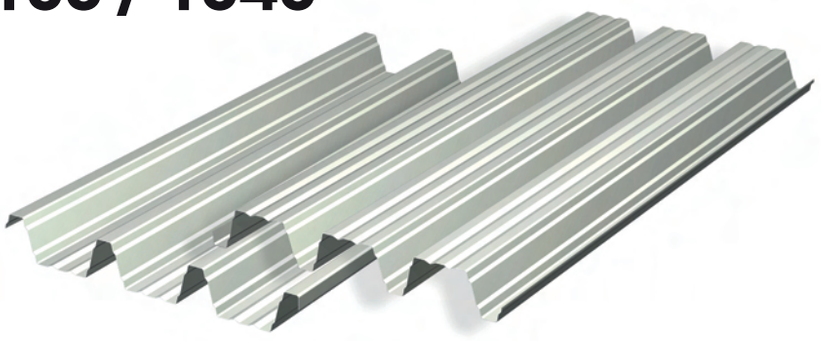



DISEGNO TECNICO - TECHNICAL DRAWING

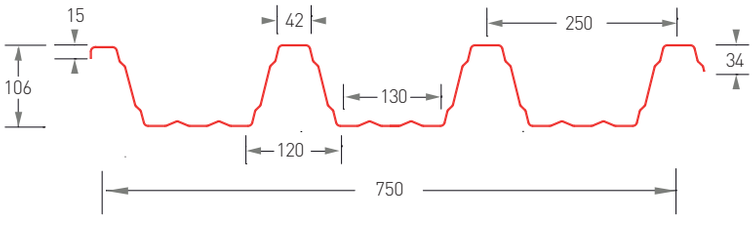


Particolare del giunto / Joint view

# ITP**H106 / 798**
# ITP**H106 / 1040**

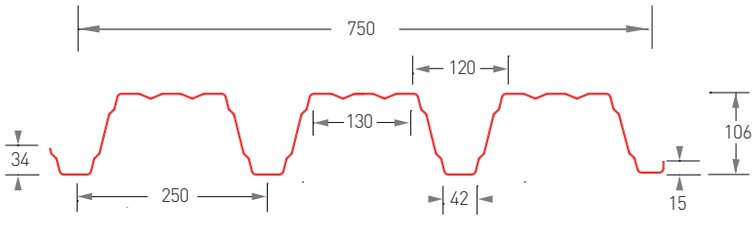


## ITP **H106 / 798 /** D

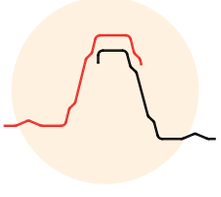



[**4 Greche / Ribs**]
Passo greche / Ribs step 250 mm
Modulo utile / Working width 750 mm

## ITP **H106 / 798 /** R

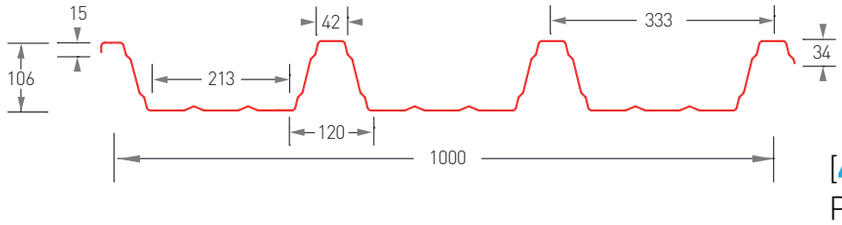



Particolare del giunto / Joint view



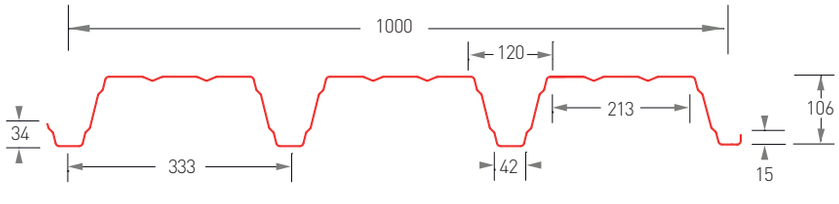
DISEGNO TECNICO - TECHNICAL DRAWING

## ITP **H106 / 1040 /** D

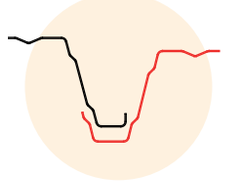



[**4 Greche / Ribs**]
Passo greche / Ribs step 333 mm
Modulo utile / Working width 1000 mm

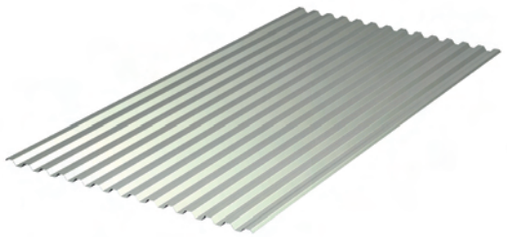
## ITP **H106 / 1040 /** R




Particolare del giunto / Joint view



DISEGNO TECNICO - TECHNICAL DRAWING



# ITP**H 20**
## 1010 - 1212

italpannelli

Sezione lorda **ACCIAIO - STEEL** gross section

| Spessore nominale Nominal thickness (mm) | | 0,50 | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|---|---|---|
| Peso nominale * Weight nominal (Kg./m²) | | 4,8 | 5,8 | 6,8 | 7,7 | 9,7 | 11,6 |
| $J_Y$ | (cm⁴/m) | 3,62 | 4,36 | 4,99 | 5,66 | 6,84 | 7,89 |
| $W_{e,inf}$ | (cm³/m) | 3,53 | 4,25 | 4,87 | 5,52 | 6,67 | 7,70 |
| $W_{e,sup}$ | (cm³/m) | 3,53 | 4,25 | 4,87 | 5,52 | 6,67 | 7,70 |
| $W_p$ | (cm³/m) | 4,18 | 5,08 | 5,87 | 6,73 | 8,29 | 9,76 |

Sezione lorda **ALLUMINIO - ALLUMINUM** gross section

| Spessore nominale Nominal thickness (mm) | | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|---|---|
| Peso nominale * Weight nominal (Kg./m²) | | 2,0 | 2,3 | 2,7 | 3,3 | 4,0 |
| $J_Y$ | (cm⁴/m) | 4,49 | 5,12 | 5,79 | 7,02 | 8,07 |
| $W_{e,inf}$ | (cm³/m) | 4,38 | 5,00 | 5,65 | 6,85 | 7,87 |
| $W_{e,sup}$ | (cm³/m) | 4,38 | 5,00 | 5,65 | 6,85 | 7,87 |
| $W_p$ | (cm³/m) | 5,25 | 6,03 | 6,89 | 8,52 | 9,99 |

* peso calcolato rispetto alla larghezza totale - weight calculated relevant to total width

Tabelle portata **ACCIAIO - STEEL** load tables

Tabelle portate **ALLUMINIO - ALLUMINUM** load tables

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm


| mm | ℓ = m | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 630 | 255 | 120 | 65 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 795 | 325 | 155 | 80 | | | | | | | | | | | 245 | 90 | | | | | | | | | | | | |
| 0,7 | | 930 | 380 | 185 | 100 | 55 | | | | | | | | | | 290 | 110 | | | | | | | | | | | | |
| 0,8 | | 1000 | 435 | 210 | 115 | 65 | | | | | | | | | | 340 | 130 | 55 | | | | | | | | | | | |
| 1,0 | | - | 525 | 260 | 140 | 80 | | | | | | | | | | 425 | 165 | 70 | | | | | | | | | | | |
| 1,2 | | - | 610 | 300 | 160 | 90 | 55 | | | | | | | | | 490 | 190 | 85 | | | | | | | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm


| mm | ℓ = m | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 590 | 360 | 240 | 160 | 110 | 65 | | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 780 | 475 | 315 | 215 | 135 | 85 | 55 | | | | | | | | 440 | 260 | 125 | 65 | | | | | | | | | | |
| 0,7 | | 945 | 560 | 410 | 265 | 160 | 100 | 65 | | | | | | | | 540 | 300 | 145 | 75 | | | | | | | | | | |
| 0,8 | | 1000 | 640 | 475 | 305 | 185 | 115 | 75 | 50 | | | | | | | 650 | 350 | 165 | 90 | | | | | | | | | | |
| 1,0 | | - | 775 | 590 | 370 | 225 | 140 | 90 | 60 | | | | | | | 855 | 430 | 210 | 110 | 60 | | | | | | | | | |
| 1,2 | | - | 900 | 700 | 425 | 260 | 165 | 110 | 70 | | | | | | | 1000 | 495 | 240 | 130 | 70 | | | | | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

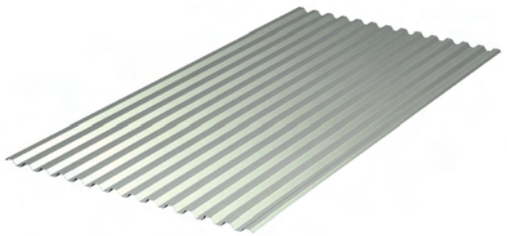
Working width support: 50 mm


| mm | ℓ = m | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 725 | 445 | 250 | 135 | 80 | | | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 960 | 590 | 315 | 175 | 100 | 60 | | | | | | | | | 490 | 195 | 90 | | | | | | | | | | | |
| 0,7 | | 1000 | 705 | 370 | 205 | 120 | 75 | | | | | | | | | 575 | 230 | 105 | 55 | | | | | | | | | | |
| 0,8 | | - | 805 | 420 | 235 | 140 | 85 | 55 | | | | | | | | 665 | 270 | 125 | 65 | | | | | | | | | | |
| 1,0 | | - | 975 | 510 | 285 | 170 | 105 | 65 | | | | | | | | 820 | 335 | 160 | 80 | | | | | | | | | | |
| 1,2 | | - | - | 590 | 330 | 200 | 125 | 80 | 50 | | | | | | | 945 | 385 | 185 | 95 | 50 | | | | | | | | | |

Carichi variabili uniformemente distribuiti
Variable uniformly distributed loads

Valori in BLU: stati limite ultimo
BLU values: ultimate limit states

Valori in ROSSO: stati limite di esercizio (limitazione freccia 1/200 della luce)
RED values: serviceability limit states (deflection 1/200 span)



# ITP**H 28**

1012 - 1233

italpannelli

Sezione lorda **ACCIAIO - STEEL** gross section

Sezione lorda **ALLUMINIO - ALLUMINUM** gross section

| Spessore nominale Nominal thickness (mm) | | 0,50 | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Peso nominale * Weight nominal (Kg./m²) | | 4,8 | 5,8 | 6,7 | 7,7 | 9,6 | 11,5 | 2,0 | 2,3 | 2,6 | 3,3 | 4,0 |
| $J_y$ | (cm⁴/m) | 7,05 | 8,54 | 9,85 | 11,25 | 13,78 | 16,15 | 8,82 | 10,12 | 11,51 | 14,17 | 16,52 |
| $W_{e,inf}$ | (cm³/m) | 5,04 | 6,10 | 7,03 | 8,03 | 9,84 | 11,53 | 6,30 | 7,23 | 8,22 | 10,12 | 11,80 |
| $W_{e,sup}$ | (cm³/m) | 5,04 | 6,10 | 7,03 | 8,03 | 9,84 | 11,53 | 6,30 | 7,23 | 8,22 | 10,12 | 11,80 |
| $W_p$ | (cm³/m) | 5,82 | 7,10 | 8,23 | 9,47 | 11,76 | 13,97 | 7,34 | 8,47 | 9,70 | 12,11 | 14,30 |

* peso calcolato rispetto alla larghezza totale - weight calculated relevant to total width

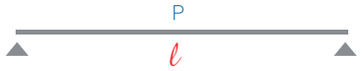
Tabelle portata **ACCIAIO - STEEL** load tables

Tabelle portate **ALLUMINIO - ALLUMINUM** load tables

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm




| mm | ℓ = m | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 825 | 460 | 235 | 130 | 75 | | | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 1000 | 600 | 295 | 165 | 95 | 60 | | | | | | | | | 465 | 185 | 85 | | | | | | | | | | | |
| 0,7 | | - | 715 | 355 | 195 | 115 | 70 | | | | | | | | | 545 | 220 | 100 | 50 | | | | | | | | | | |
| 0,8 | | - | 840 | 420 | 235 | 140 | 85 | 55 | | | | | | | | 640 | 255 | 120 | 60 | | | | | | | | | | |
| 1,0 | | - | 1000 | 545 | 305 | 185 | 115 | 75 | | | | | | | | 825 | 335 | 160 | 80 | | | | | | | | | | |
| 1,2 | | - | - | 640 | 360 | 215 | 135 | 90 | 55 | | | | | | | 1000 | 405 | 195 | 100 | 55 | | | | | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

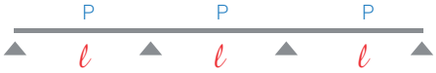
Working width support: 50 mm


| mm | ℓ = m | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 570 | 355 | 245 | 175 | 130 | 100 | 75 | 60 | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 765 | 480 | 330 | 235 | 180 | 140 | 105 | 80 | 55 | | | | | | 420 | 260 | 175 | 125 | 80 | | | | | | | | | |
| 0,7 | | 955 | 595 | 410 | 295 | 220 | 175 | 135 | 95 | 65 | | | | | | 520 | 325 | 220 | 160 | 95 | 55 | | | | | | | | |
| 0,8 | | 1000 | 735 | 505 | 365 | 270 | 215 | 165 | 115 | 80 | 55 | | | | | 640 | 400 | 275 | 185 | 110 | 65 | | | | | | | | |
| 1,0 | | - | 1000 | 690 | 495 | 365 | 290 | 210 | 145 | 105 | 75 | 55 | | | | 890 | 560 | 380 | 240 | 140 | 85 | 55 | | | | | | | |
| 1,2 | | - | - | 825 | 585 | 505 | 365 | 250 | 175 | 125 | 90 | 65 | | | | 1000 | 715 | 490 | 285 | 170 | 105 | 65 | | | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm

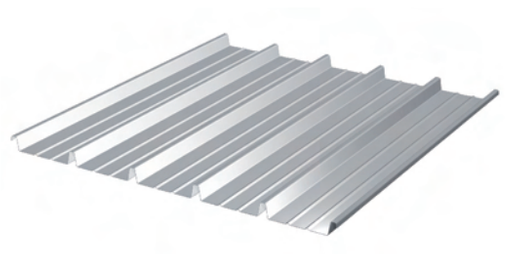



| mm | ℓ = m | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 690 | 435 | 300 | 215 | 160 | 100 | 65 | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 930 | 585 | 405 | 295 | 205 | 130 | 85 | 55 | | | | | | | 510 | 320 | 185 | 100 | 55 | | | | | | | | | |
| 0,7 | | 1000 | 730 | 505 | 365 | 245 | 155 | 105 | 70 | | | | | | | 630 | 400 | 215 | 115 | 65 | | | | | | | | | |
| 0,8 | | - | 895 | 620 | 450 | 285 | 185 | 125 | 85 | 60 | | | | | | 775 | 490 | 255 | 140 | 80 | | | | | | | | | |
| 1,0 | | - | 1000 | 845 | 600 | 370 | 240 | 160 | 110 | 75 | 55 | | | | | 1000 | 660 | 325 | 180 | 105 | 60 | | | | | | | | |
| 1,2 | | - | - | 1000 | 705 | 435 | 280 | 190 | 130 | 95 | 65 | | | | | - | 800 | 395 | 220 | 130 | 75 | | | | | | | | |

Carichi variabili uniformemente distribuiti
Variable uniformly distributed loads

Valori in BLU: stati limite ultimo
BLU values: ultimate limit states

Valori in ROSSO: stati limite di esercizio (limitazione freccia 1/200 della luce)
RED values: serviceability limit states (deflection 1/200 span)



# ITP**H 38-D**

732 - 915

italpannelli

| Sezione lorda **ACCIAIO - STEEL** gross section | | | | | | | | Sezione lorda **ALLUMINIO - ALLUMINUM** gross section | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spessore nominale * Nominal thickness (mm) | | 0,50 | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
| Peso nominale Weight nominal (Kg./m²) | | 5,4 | 6,4 | 7,5 | 8,6 | 10,7 | 12,9 | 2,2 | 2,6 | 3,0 | 3,7 | 4,4 |
| $J_Y$ | (cm⁴/m) | 9,75 | 11,79 | 13,57 | 15,47 | 18,88 | 22,04 | 12,18 | 13,94 | 15,84 | 19,42 | 22,55 |
| $W_{e,inf}$ | (cm³/m) | 11,50 | 13,89 | 15,96 | 18,17 | 22,10 | 25,71 | 14,34 | 16,39 | 18,59 | 22,72 | 26,29 |
| $W_{e,sup}$ | (cm³/m) | 3,30 | 4,00 | 4,60 | 5,25 | 6,41 | 7,49 | 4,13 | 4,73 | 5,37 | 6,60 | 7,66 |
| $W_p$ | (cm³/m) | 5,04 | 6,15 | 7,13 | 8,19 | 10,17 | 12,07 | 6,35 | 7,33 | 8,39 | 10,47 | 12,37 |

* peso calcolato rispetto alla larghezza utile - weight calculated relevant to working width

## Tabelle portata **ACCIAIO - STEEL** load tables

## Tabelle portate **ALLUMINIO - ALLUMINUM** load tables

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm


| mm | ℓ = m | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 685 | 380 | 240 | 165 | 120 | 90 | 60 | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 965 | 540 | 340 | 235 | 170 | 110 | 75 | 50 | | | | | | | 520 | 290 | 155 | 85 | 50 | | | | | | | | | |
| 0,7 | | 1000 | 855 | 545 | 315 | 195 | 125 | 85 | 60 | | | | | | | 645 | 360 | 180 | 100 | 60 | | | | | | | | | |
| 0,8 | | - | 1000 | 625 | 360 | 220 | 145 | 100 | 70 | 50 | | | | | | 840 | 415 | 205 | 115 | 70 | | | | | | | | | |
| 1,0 | | - | - | 765 | 435 | 270 | 175 | 120 | 85 | 60 | | | | | | 1000 | 510 | 255 | 140 | 85 | 50 | | | | | | | | |
| 1,2 | | - | - | 895 | 510 | 315 | 205 | 140 | 100 | 70 | 50 | | | | | - | 590 | 295 | 165 | 95 | 60 | | | | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

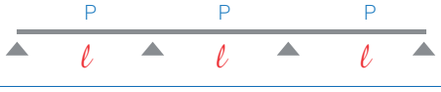
Working width support: 50 mm


| mm | ℓ = m | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 490 | 325 | 235 | 175 | 140 | 110 | 90 | 75 | 65 | 55 | | | | | | | | | | | | | | | | | | |
| 0,6 | | 660 | 440 | 315 | 240 | 185 | 150 | 125 | 105 | 85 | 75 | 55 | | | | 370 | 245 | 180 | 135 | 105 | 85 | 60 | | | | | | | |
| 0,7 | | 815 | 540 | 390 | 295 | 230 | 185 | 155 | 130 | 110 | 85 | 65 | 50 | | | 450 | 300 | 215 | 165 | 130 | 100 | 70 | | | | | | | |
| 0,8 | | 995 | 660 | 475 | 360 | 280 | 225 | 185 | 155 | 135 | 100 | 75 | 60 | | | 550 | 365 | 260 | 200 | 155 | 115 | 80 | 55 | | | | | | |
| 1,0 | | 1000 | 885 | 635 | 480 | 380 | 305 | 250 | 210 | 160 | 120 | 95 | 70 | 55 | | 750 | 495 | 355 | 270 | 210 | 145 | 95 | 65 | | | | | | |
| 1,2 | | - | 1000 | 805 | 610 | 475 | 385 | 315 | 255 | 190 | 140 | 110 | 85 | 65 | 50 | 950 | 625 | 450 | 340 | 255 | 165 | 110 | 75 | 55 | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm

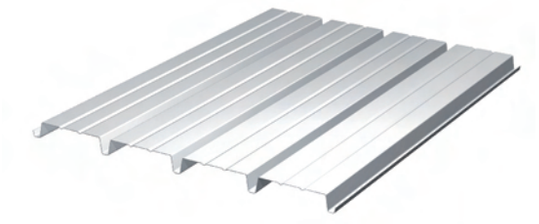



| mm | ℓ = m | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 590 | 390 | 285 | 215 | 170 | 135 | 110 | 85 | 65 | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 790 | 530 | 380 | 290 | 230 | 185 | 150 | 105 | 75 | 60 | | | | | 440 | 295 | 215 | 165 | 105 | 70 | | | | | | | | |
| 0,7 | | 980 | 660 | 470 | 360 | 285 | 230 | 170 | 120 | 90 | 65 | 50 | | | | 540 | 365 | 265 | 200 | 120 | 80 | 50 | | | | | | | |
| 0,8 | | 1000 | 800 | 575 | 440 | 345 | 285 | 195 | 140 | 105 | 75 | 60 | | | | 660 | 440 | 320 | 225 | 140 | 90 | 60 | | | | | | | |
| 1,0 | | - | 1000 | 775 | 590 | 465 | 345 | 240 | 170 | 125 | 95 | 70 | 55 | | | 900 | 600 | 435 | 280 | 170 | 110 | 75 | 50 | | | | | | |
| 1,2 | | - | - | 980 | 745 | 585 | 405 | 280 | 200 | 145 | 110 | 80 | 60 | 50 | | 1000 | 760 | 545 | 325 | 200 | 125 | 85 | 55 | | | | | | |

Carichi variabili uniformemente distribuiti
Variable uniformly distributed loads

Valori in BLU: stati limite ultimo
BLU values: ultimate limit states

Valori in ROSSO: stati limite di esercizio (limitazione freccia 1/200 della luce)
RED values: serviceability limit states (deflection 1/200 span)



# ITPH 38-R
## 732 - 915

italpannelli

Sezione lorda **ACCIAIO - STEEL** gross section

Sezione lorda **ALLUMINIO - ALLUMINUM** gross section

| Spessore nominale Nominal thickness (mm) | | 0,50 | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Peso nominale * Weight nominal (Kg./m²) | | 5,4 | 6,4 | 7,5 | 8,6 | 10,7 | 12,9 | 2,2 | 2,6 | 3,0 | 3,7 | 4,4 |
| $J_Y$ | (cm⁴/m) | 9,75 | 11,79 | 13,57 | 15,47 | 18,88 | 22,04 | 12,18 | 13,94 | 15,84 | 19,42 | 22,55 |
| $W_{e,inf}$ | (cm³/m) | 3,30 | 4,00 | 4,60 | 5,25 | 6,41 | 7,49 | 4,13 | 4,73 | 5,37 | 6,60 | 7,66 |
| $W_{e,sup}$ | (cm³/m) | 11,50 | 13,89 | 15,96 | 18,17 | 22,10 | 25,71 | 14,34 | 16,39 | 18,59 | 22,72 | 26,29 |
| $W_p$ | (cm³/m) | 4,97 | 6,04 | 6,98 | 8,00 | 9,85 | 11,62 | 6,24 | 7,17 | 8,19 | 10,14 | 11,89 |

* peso calcolato rispetto alla larghezza utile - weight calculated relevant to working width

Tabelle portata **ACCIAIO - STEEL** load tables

Tabelle portate **ALLUMINIO - ALLUMINUM** load tables

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm


| mm | ℓ = m | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 930 | 525 | 335 | 220 | 135 | 90 | 60 | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 1000 | 675 | 430 | 270 | 165 | 110 | 75 | 50 | | | | | | | 735 | 320 | 160 | 90 | 50 | | | | | | | | | |
| 0,7 | | - | 805 | 515 | 315 | 195 | 125 | 85 | 60 | | | | | | | 880 | 365 | 180 | 100 | 60 | | | | | | | | | |
| 0,8 | | - | 945 | 605 | 360 | 220 | 145 | 100 | 70 | 50 | | | | | | 1000 | 415 | 205 | 115 | 70 | | | | | | | | | |
| 1,0 | | - | 1000 | 765 | 435 | 270 | 175 | 120 | 85 | 60 | | | | | | - | 510 | 255 | 140 | 85 | 50 | | | | | | | | |
| 1,2 | | - | - | 895 | 510 | 315 | 205 | 140 | 100 | 70 | 50 | | | | | - | 590 | 295 | 165 | 95 | 60 | | | | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm


| mm | ℓ = m | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 485 | 310 | 210 | 150 | 110 | 85 | 70 | 55 | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 625 | 495 | 340 | 235 | 170 | 130 | 100 | 80 | 65 | 55 | | | | | 355 | 225 | 150 | 110 | 80 | 60 | 50 | | | | | | | |
| 0,7 | | 755 | 620 | 435 | 320 | 245 | 190 | 155 | 125 | 105 | 85 | 65 | 50 | | | 435 | 305 | 190 | 135 | 100 | 80 | 60 | | | | | | | |
| 0,8 | | 900 | 745 | 515 | 380 | 290 | 225 | 180 | 150 | 125 | 100 | 75 | 60 | | | 520 | 410 | 285 | 205 | 145 | 110 | 80 | 55 | | | | | | |
| 1,0 | | 1000 | 985 | 675 | 490 | 375 | 290 | 235 | 190 | 155 | 120 | 95 | 70 | 55 | | 690 | 570 | 395 | 290 | 220 | 145 | 95 | 65 | | | | | | |
| 1,2 | | - | 1000 | 835 | 605 | 455 | 355 | 275 | 220 | 180 | 140 | 110 | 85 | 65 | 50 | 1000 | 715 | 490 | 360 | 255 | 165 | 110 | 75 | 55 | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

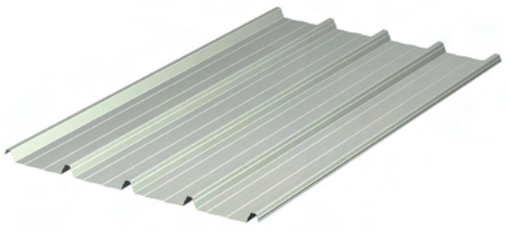
Working width support: 50 mm


| mm | ℓ = m | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 580 | 375 | 255 | 185 | 140 | 110 | 85 | 70 | 55 | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 750 | 590 | 415 | 295 | 215 | 165 | 125 | 100 | 75 | 55 | | | | | 425 | 270 | 185 | 135 | 100 | 70 | | | | | | | | |
| 0,7 | | 910 | 745 | 525 | 385 | 295 | 235 | 170 | 120 | 90 | 65 | 50 | | | | 520 | 365 | 240 | 170 | 120 | 80 | 50 | | | | | | | |
| 0,8 | | 1000 | 900 | 625 | 460 | 355 | 280 | 195 | 140 | 100 | 75 | 55 | | | | 625 | 490 | 345 | 225 | 140 | 90 | 60 | | | | | | | |
| 1,0 | | - | 1000 | 825 | 600 | 460 | 345 | 240 | 170 | 125 | 95 | 70 | 55 | | | 835 | 685 | 480 | 280 | 170 | 110 | 75 | 50 | | | | | | |
| 1,2 | | - | - | 1000 | 740 | 560 | 405 | 280 | 200 | 145 | 110 | 80 | 60 | 50 | | 1000 | 860 | 570 | 325 | 200 | 125 | 85 | 55 | | | | | | |

Carichi variabili uniformemente distribuiti
Variable uniformly distributed loads

Valori in BLU: stati limite ultimo
BLU values: ultimate limit states

Valori in ROSSO: stati limite di esercizio (limitazione freccia 1/200 della luce)
RED values: serviceability limit states (deflection 1/200 span)



# ITP H40/40PdA-D
## 1000

italpannelli

Sezione lorda **ACCIAIO - STEEL** gross section

| Spessore nominale Nominal thickness (mm) | | 0,50 | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|---|---|---|
| Peso nominale * Weight nominal (Kg./m²) | | 4,9 | 5,9 | 6,9 | 7,9 | 9,8 | 11,8 |
| $J_y$ | (cm⁴/m) | 10,00 | 12,07 | 13,84 | 15,74 | 19,09 | 22,13 |
| $W_{e,inf}$ | (cm³/m) | 12,36 | 14,88 | 17,04 | 19,34 | 23,37 | 26,99 |
| $W_{e,sup}$ | (cm³/m) | 3,14 | 3,78 | 4,34 | 4,94 | 6,00 | 6,96 |
| $W_p$ | (cm³/m) | 4,76 | 5,80 | 6,73 | 7,74 | 9,60 | 11,40 |

Sezione lorda **ALLUMINIO - ALLUMINUM** gross section

| Spessore nominale Nominal thickness (mm) | | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|---|---|
| Peso nominale * Weight nominal (Kg./m²) | | 2,0 | 2,4 | 2,7 | 3,4 | 4,1 |
| $J_y$ | (cm⁴/m) | 12,47 | 14,23 | 16,12 | 19,64 | 22,65 |
| $W_{e,inf}$ | (cm³/m) | 15,37 | 17,51 | 19,80 | 24,03 | 27,61 |
| $W_{e,sup}$ | (cm³/m) | 3,91 | 4,46 | 5,06 | 6,17 | 7,12 |
| $W_p$ | (cm³/m) | 6,00 | 6,92 | 7,93 | 9,89 | 11,69 |

* peso calcolato rispetto alla larghezza utile - weight calculated relevant to working width

Tabelle portata **ACCIAIO - STEEL** load tables

Tabelle portate **ALLUMINIO - ALLUMINUM** load tables

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm


$P = Kg./m^2$

| mm | ℓ = m | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | | 665 | 365 | 230 | 155 | 110 | 80 | 50 | | | | | | | |
| 0,6 | | 1000 | 670 | 425 | 270 | 160 | 100 | 65 | | | | | | | |
| 0,7 | | - | 835 | 530 | 310 | 190 | 120 | 75 | 50 | | | | | | |
| 0,8 | | - | 965 | 610 | 355 | 215 | 135 | 90 | 60 | | | | | | |
| 1,0 | | - | 1000 | 760 | 435 | 265 | 170 | 110 | 75 | 50 | | | | | |
| 1,2 | | - | - | 890 | 505 | 305 | 195 | 130 | 90 | 60 | | | | | |

| mm | ℓ = m | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | | | | | | | | | | | | | | | |
| 0,6 | | 495 | 280 | 145 | 75 | | | | | | | | | | |
| 0,7 | | 610 | 335 | 170 | 90 | 50 | | | | | | | | | |
| 0,8 | | 835 | 410 | 200 | 105 | 60 | | | | | | | | | |
| 1,0 | | 1000 | 505 | 245 | 135 | 75 | | | | | | | | | |
| 1,2 | | - | 585 | 285 | 155 | 90 | 50 | | | | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm


$P = Kg./m^2$

| mm | ℓ = m | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | | 335 | 225 | 160 | 120 | 95 | 75 | 60 | | | | | | | |
| 0,6 | | 445 | 295 | 215 | 160 | 125 | 100 | 80 | 65 | 55 | | | | | |
| 0,7 | | 550 | 365 | 265 | 200 | 155 | 125 | 100 | 80 | 70 | 55 | 50 | | | |
| 0,8 | | 670 | 445 | 320 | 240 | 190 | 150 | 125 | 100 | 85 | 70 | 60 | 50 | | |
| 1,0 | | 905 | 605 | 435 | 325 | 255 | 205 | 165 | 140 | 115 | 95 | 80 | 65 | | |
| 1,2 | | 1000 | 765 | 550 | 415 | 325 | 260 | 210 | 170 | 140 | 120 | 100 | 75 | 55 | |

| mm | ℓ = m | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | | | | | | | | | | | | | | | |
| 0,6 | | 240 | 160 | 115 | 85 | 65 | 50 | | | | | | | | |
| 0,7 | | 300 | 195 | 140 | 105 | 80 | 60 | 50 | | | | | | | |
| 0,8 | | 365 | 240 | 170 | 130 | 100 | 75 | 60 | | | | | | | |
| 1,0 | | 505 | 335 | 235 | 175 | 135 | 110 | 85 | 60 | | | | | | |
| 1,2 | | 640 | 420 | 300 | 225 | 175 | 135 | 105 | 70 | | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm


$P = Kg./m^2$

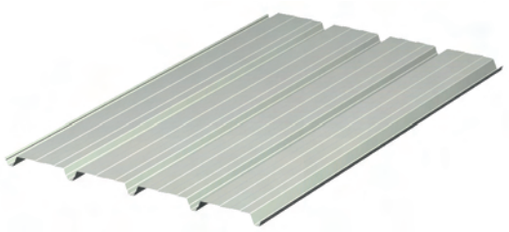
| mm | ℓ = m | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | | 405 | 270 | 195 | 150 | 115 | 90 | 75 | 60 | 50 | | | | | |
| 0,6 | | 535 | 360 | 260 | 195 | 155 | 125 | 100 | 85 | 70 | 50 | | | | |
| 0,7 | | 665 | 445 | 320 | 245 | 190 | 155 | 125 | 105 | 80 | 60 | | | | |
| 0,8 | | 810 | 540 | 390 | 295 | 235 | 190 | 155 | 130 | 95 | 65 | 50 | | | |
| 1,0 | | 1000 | 735 | 530 | 405 | 315 | 255 | 210 | 165 | 115 | 85 | 60 | | | |
| 1,2 | | - | 935 | 675 | 510 | 400 | 325 | 265 | 190 | 135 | 100 | 75 | 55 | | |

| mm | ℓ = m | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | | | | | | | | | | | | | | | |
| 0,6 | | 290 | 195 | 140 | 105 | 80 | 55 | | | | | | | | |
| 0,7 | | 360 | 240 | 170 | 130 | 100 | 70 | | | | | | | | |
| 0,8 | | 440 | 295 | 210 | 160 | 125 | 80 | 50 | | | | | | | |
| 1,0 | | 610 | 405 | 290 | 220 | 165 | 100 | 65 | | | | | | | |
| 1,2 | | 775 | 515 | 370 | 280 | 190 | 120 | 75 | 50 | | | | | | |

Carichi variabili uniformemente distribuiti
Variable uniformly distributed loads

Valori in BLU: stati limite ultimo
BLU values: ultimate limit states

Valori in ROSSO: stati limite di esercizio (limitazione freccia 1/200 della luce)
RED values: serviceability limit states (deflection 1/200 span)



# ITP**H40/40PdA-R**

1000

italpannelli

Sezione lorda **ACCIAIO - STEEL** gross section

| Spessore nominale Nominal thickness (mm) | | 0,50 | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|---|---|---|
| Peso nominale * Weight nominal (Kg./m²) | | 4,9 | 5,9 | 6,9 | 7,9 | 9,8 | 11,8 |
| $J_Y$ | (cm⁴/m) | 9,24 | 11,17 | 12,84 | 14,63 | 17,81 | 20,74 |
| $W_{e,inf}$ | (cm³/m) | 2,94 | 3,56 | 4,09 | 4,67 | 5,69 | 6,63 |
| $W_{e,sup}$ | (cm³/m) | 10,74 | 12,95 | 14,85 | 16,88 | 20,47 | 23,73 |
| $W_p$ | (cm³/m) | 4,41 | 5,37 | 6,22 | 7,14 | 8,83 | 10,45 |

Sezione lorda **ALLUMINIO - ALLUMINUM** gross section

| Spessore nominale Nominal thickness (mm) | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|---|
| Peso nominale * Weight nominal (Kg./m²) | 2,0 | 2,4 | 2,7 | 3,4 | 4,1 |
| $J_Y$ (cm⁴/m) | 11,54 | 13,20 | 14,98 | 18,33 | 21,23 |
| $W_{e,inf}$ (cm³/m) | 3,68 | 4,21 | 4,78 | 5,86 | 6,79 |
| $W_{e,sup}$ (cm³/m) | 13,37 | 15,26 | 17,28 | 21,05 | 24,28 |
| $W_p$ (cm³/m) | 5,55 | 6,39 | 7,31 | 9,09 | 10,71 |

* peso calcolato rispetto alla larghezza utile - weight calculated relevant to working width

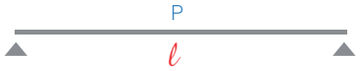
Tabelle portata **ACCIAIO - STEEL** load tables

Tabelle portate **ALLUMINIO - ALLUMINUM** load tables

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm




| mm | ℓ = m | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 770 | 430 | 275 | 185 | 120 | 75 | | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 965 | 545 | 345 | 235 | 150 | 95 | 60 | | | | | | | | 595 | 290 | 140 | 75 | | | | | | | | | | |
| 0,7 | | 1000 | 645 | 410 | 280 | 175 | 110 | 70 | | | | | | | | 700 | 335 | 160 | 85 | | | | | | | | | | |
| 0,8 | | - | 775 | 480 | 330 | 200 | 125 | 80 | 55 | | | | | | | 820 | 380 | 185 | 100 | 55 | | | | | | | | | |
| 1,0 | | - | 970 | 620 | 400 | 245 | 155 | 105 | 70 | | | | | | | 1000 | 470 | 230 | 125 | 70 | | | | | | | | | |
| 1,2 | | - | 1000 | 755 | 470 | 285 | 185 | 120 | 80 | 55 | | | | | | - | 545 | 265 | 145 | 80 | | | | | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

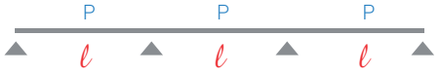
Working width support: 50 mm


| mm | ℓ = m | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 405 | 260 | 175 | 125 | 90 | 70 | 55 | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 560 | 360 | 240 | 170 | 125 | 95 | 75 | 55 | | | | | | | 310 | 195 | 130 | 90 | 65 | 50 | | | | | | | | |
| 0,7 | | 675 | 515 | 350 | 250 | 190 | 145 | 115 | 90 | 70 | 55 | | | | | 380 | 245 | 160 | 115 | 85 | 60 | | | | | | | | |
| 0,8 | | 805 | 680 | 465 | 340 | 255 | 200 | 155 | 125 | 100 | 80 | 60 | | | | 465 | 295 | 195 | 140 | 100 | 75 | 60 | | | | | | | |
| 1,0 | | 1000 | 905 | 615 | 445 | 335 | 260 | 200 | 160 | 130 | 105 | 75 | 55 | | | 620 | 510 | 350 | 250 | 190 | 125 | 80 | 50 | | | | | | |
| 1,2 | | - | 1000 | 760 | 545 | 410 | 310 | 240 | 190 | 155 | 125 | 90 | 70 | 50 | | 760 | 655 | 445 | 320 | 230 | 145 | 95 | 60 | | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm

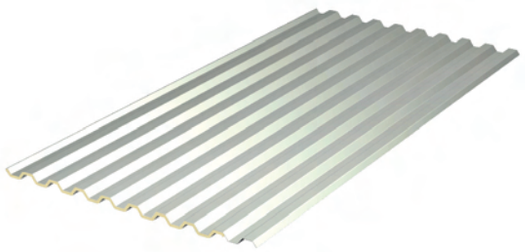



| mm | ℓ = m | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 490 | 315 | 215 | 155 | 115 | 90 | 70 | 55 | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 675 | 435 | 295 | 210 | 160 | 120 | 95 | 75 | 60 | | | | | | 370 | 240 | 160 | 115 | 85 | 55 | | | | | | | | |
| 0,7 | | 820 | 625 | 430 | 310 | 235 | 180 | 145 | 105 | 75 | 55 | | | | | 460 | 295 | 200 | 145 | 105 | 65 | | | | | | | | |
| 0,8 | | 980 | 825 | 570 | 415 | 315 | 245 | 175 | 120 | 85 | 60 | | | | | 560 | 360 | 245 | 175 | 120 | 75 | | | | | | | | |
| 1,0 | | 1000 | 1000 | 750 | 545 | 410 | 315 | 215 | 150 | 105 | 75 | 55 | | | | 750 | 615 | 425 | 255 | 150 | 95 | 60 | | | | | | | |
| 1,2 | | - | - | 930 | 670 | 505 | 370 | 250 | 175 | 125 | 90 | 65 | 50 | | | 925 | 795 | 525 | 295 | 175 | 110 | 70 | | | | | | | |

Carichi variabili uniformemente distribuiti
Variable uniformly distributed loads

Valori in BLU: stati limite ultimo
BLU values: ultimate limit states

Valori in ROSSO: stati limite di esercizio (limitazione freccia 1/200 della luce)
RED values: serviceability limit states (deflection 1/200 span)



# ITP**Mono 28**
1012

italpannelli

Sezione lorda **ACCIAIO - STEEL** gross section

| Spessore nominale Nominal thickness (mm) | | 0,50 | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|---|---|---|
| Peso nominale * Weight nominal (Kg./m²) | | 5,2 | 6,2 | 7,2 | 8,1 | 10,0 | 12,0 |
| $J_Y$ | (cm⁴/m) | 7,05 | 8,54 | 9,85 | 11,25 | 13,78 | 16,15 |
| $W_{e,inf}$ | (cm³/m) | 5,04 | 6,10 | 7,03 | 8,03 | 9,84 | 11,53 |
| $W_{e,sup}$ | (cm³/m) | 5,04 | 6,10 | 7,03 | 8,03 | 9,84 | 11,53 |
| $W_p$ | (cm³/m) | 5,82 | 7,10 | 8,23 | 9,47 | 11,76 | 13,97 |

Sezione lorda **ALLUMINIO - ALLUMINUM** gross section

| 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|
| 2,4 | 2,8 | 3,1 | 3,8 | 4,4 |
| 8,82 | 10,12 | 11,51 | 14,17 | 16,52 |
| 6,30 | 7,23 | 8,22 | 10,12 | 11,80 |
| 6,30 | 7,23 | 8,22 | 10,12 | 11,80 |
| 7,34 | 8,47 | 9,70 | 12,11 | 14,30 |

* peso calcolato rispetto alla larghezza totale - weight calculated relevant to total width

Tabelle portata **ACCIAIO - STEEL** load tables

Tabelle portate **ALLUMINIO - ALLUMINUM** load tables

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm


| mm | ℓ = m | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 825 | 460 | 235 | 130 | 75 | | | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 1000 | 600 | 295 | 165 | 95 | 60 | | | | | | | | | 465 | 185 | 85 | | | | | | | | | | | |
| 0,7 | | - | 715 | 355 | 195 | 115 | 70 | | | | | | | | | 545 | 220 | 100 | 50 | | | | | | | | | | |
| 0,8 | | - | 840 | 420 | 235 | 140 | 85 | 55 | | | | | | | | 640 | 255 | 120 | 60 | | | | | | | | | | |
| 1,0 | | - | 1000 | 545 | 305 | 185 | 115 | 75 | | | | | | | | 825 | 335 | 160 | 80 | | | | | | | | | | |
| 1,2 | | - | - | 640 | 360 | 215 | 135 | 90 | 55 | | | | | | | 1000 | 405 | 195 | 100 | 55 | | | | | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm


| mm | ℓ = m | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 570 | 355 | 245 | 175 | 130 | 100 | 75 | 60 | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 765 | 480 | 330 | 235 | 180 | 140 | 105 | 80 | 55 | | | | | | 420 | 260 | 175 | 125 | 80 | | | | | | | | | |
| 0,7 | | 955 | 595 | 410 | 295 | 220 | 175 | 135 | 95 | 65 | | | | | | 520 | 325 | 220 | 160 | 95 | 55 | | | | | | | | |
| 0,8 | | 1000 | 735 | 505 | 365 | 270 | 215 | 165 | 115 | 80 | 55 | | | | | 640 | 400 | 275 | 185 | 110 | 65 | | | | | | | | |
| 1,0 | | - | 1000 | 690 | 495 | 365 | 290 | 210 | 145 | 105 | 75 | 55 | | | | 890 | 560 | 380 | 240 | 140 | 85 | 55 | | | | | | | |
| 1,2 | | - | - | 825 | 585 | 505 | 365 | 250 | 175 | 125 | 90 | 65 | | | | 1000 | 715 | 490 | 285 | 170 | 105 | 65 | | | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

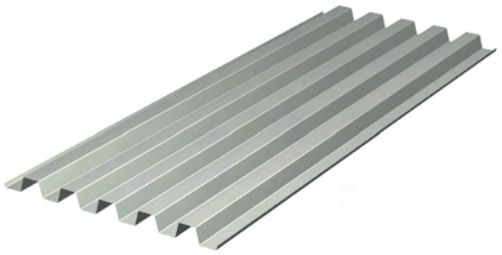
Working width support: 50 mm


| mm | ℓ = m | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 690 | 435 | 300 | 215 | 160 | 100 | 65 | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 930 | 585 | 405 | 295 | 205 | 130 | 85 | 55 | | | | | | | 510 | 320 | 185 | 100 | 55 | | | | | | | | | |
| 0,7 | | 1000 | 730 | 505 | 365 | 245 | 155 | 105 | 70 | | | | | | | 630 | 400 | 215 | 115 | 65 | | | | | | | | | |
| 0,8 | | - | 895 | 620 | 450 | 285 | 185 | 125 | 85 | 60 | | | | | | 775 | 490 | 255 | 140 | 80 | | | | | | | | | |
| 1,0 | | - | 1000 | 845 | 600 | 370 | 240 | 160 | 110 | 75 | 55 | | | | | 1000 | 660 | 325 | 180 | 105 | 60 | | | | | | | | |
| 1,2 | | - | - | 1000 | 705 | 435 | 280 | 190 | 130 | 95 | 65 | | | | | - | 800 | 395 | 220 | 130 | 75 | | | | | | | | |

Carichi variabili uniformemente distribuiti
Variable uniformly distributed loads

Valori in BLU: stati limite ultimo
BLU values: ultimate limit states

Valori in ROSSO: stati limite di esercizio (limitazione freccia 1/200 della luce)
RED values: serviceability limit states (deflection 1/200 span)



# ITP H 55
## 600 - 750 - 900

italpannelli

Sezione lorda **ACCIAIO - STEEL** gross section

| Spessore nominale Nominal thickness (mm) | 0,50 | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|---|---|
| Peso nominale * Weight nominal (Kg./m²) | 6,5 | 7,9 | 9,2 | 10,5 | 13,1 | 15,7 |
| $J_Y$ (cm⁴/m) | 35,33 | 43,13 | 50,05 | 57,61 | 71,62 | 85,17 |
| $W_{e,inf}$ (cm³/m) | 12,85 | 15,68 | 18,20 | 20,95 | 26,04 | 30,97 |
| $W_{e,sup}$ (cm³/m) | 12,85 | 15,68 | 18,20 | 20,95 | 26,04 | 30,97 |
| $W_p$ (cm³/m) | 14,58 | 17,86 | 20,79 | 24,01 | 30,05 | 35,97 |

Sezione lorda **ALLUMINIO - ALLUMINUM** gross section

| 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|
| 2,7 | 3,2 | 3,6 | 4,5 | 5,4 |
| 44,57 | 51,47 | 59,02 | 73,75 | 87,24 |
| 16,21 | 18,72 | 21,46 | 26,82 | 31,73 |
| 16,21 | 18,72 | 21,46 | 26,82 | 31,73 |
| 18,47 | 21,39 | 24,61 | 30,96 | 36,86 |

* peso calcolato rispetto alla larghezza utile - weight calculated relevant to working width

Tabelle portata **ACCIAIO - STEEL** load tables

Tabelle portate **ALLUMINIO - ALLUMINUM** load tables

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm


| mm | ℓ = m | 1,00 | 1,50 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 1,00 | 1,50 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 850 | 370 | 200 | 155 | 120 | 90 | 65 | | | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 1000 | 540 | 295 | 230 | 165 | 115 | 85 | 60 | | | | | | | | 640 | 265 | 100 | 65 | | | | | | | | | | | |
| 0,7 | | - | 685 | 375 | 275 | 195 | 140 | 105 | 75 | 55 | | | | | | | 835 | 315 | 120 | 75 | 50 | | | | | | | | | | |
| 0,8 | | - | 845 | 465 | 330 | 230 | 170 | 125 | 90 | 70 | 50 | | | | | | 1000 | 370 | 140 | 90 | 60 | | | | | | | | | | |
| 1,0 | | - | 1000 | 620 | 425 | 305 | 220 | 165 | 120 | 90 | 70 | 50 | | | | | - | 475 | 185 | 120 | 80 | 55 | | | | | | | | | |
| 1,2 | | - | - | 770 | 530 | 380 | 275 | 205 | 155 | 120 | 90 | 70 | 50 | | | | - | 585 | 230 | 150 | 100 | 70 | | | | | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm


| mm | ℓ = m | 1,00 | 1,50 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 1,00 | 1,50 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 505 | 270 | 165 | 125 | 105 | 85 | 70 | 60 | 50 | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 690 | 370 | 225 | 185 | 150 | 125 | 105 | 90 | 80 | 65 | 55 | 50 | | | | 360 | 185 | 110 | 85 | 70 | 55 | | | | | | | | | |
| 0,7 | | 865 | 465 | 285 | 235 | 195 | 165 | 140 | 120 | 100 | 90 | 75 | 65 | 55 | 50 | | 460 | 245 | 145 | 115 | 95 | 80 | 65 | 55 | | | | | | | |
| 0,8 | | 1000 | 575 | 360 | 295 | 245 | 205 | 175 | 150 | 130 | 115 | 100 | 85 | 75 | 65 | 55 | 570 | 305 | 185 | 150 | 125 | 105 | 85 | 75 | 55 | | | | | | |
| 1,0 | | - | 810 | 505 | 415 | 345 | 290 | 250 | 220 | 190 | 165 | 140 | 125 | 105 | 95 | 75 | 815 | 435 | 270 | 220 | 180 | 150 | 130 | 100 | 75 | 55 | | | | | |
| 1,2 | | - | 1000 | 665 | 545 | 455 | 385 | 340 | 290 | 250 | 215 | 190 | 165 | 145 | 115 | 95 | 1000 | 570 | 355 | 290 | 240 | 200 | 165 | 120 | 90 | 70 | 50 | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

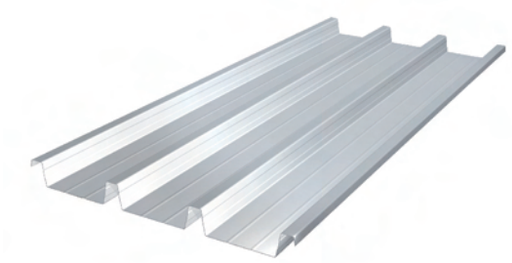
Working width support: 50 mm


| mm | ℓ = m | 1,00 | 1,50 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 1,00 | 1,50 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 605 | 320 | 195 | 160 | 130 | 105 | 90 | 75 | 65 | 55 | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 825 | 445 | 280 | 230 | 190 | 160 | 135 | 115 | 100 | 85 | 65 | 50 | | | | 435 | 225 | 135 | 110 | 90 | 70 | 50 | | | | | | | | |
| 0,7 | | 1000 | 560 | 350 | 290 | 240 | 205 | 175 | 150 | 130 | 105 | 80 | 65 | 50 | | | 550 | 295 | 180 | 145 | 120 | 85 | 60 | | | | | | | | |
| 0,8 | | - | 700 | 440 | 360 | 300 | 255 | 215 | 190 | 155 | 125 | 95 | 75 | 60 | | | 680 | 370 | 230 | 190 | 140 | 100 | 70 | 50 | | | | | | | |
| 1,0 | | - | 985 | 620 | 510 | 425 | 360 | 310 | 265 | 205 | 160 | 130 | 100 | 80 | 65 | 50 | 975 | 530 | 330 | 265 | 185 | 130 | 95 | 70 | 50 | | | | | | |
| 1,2 | | - | 1000 | 815 | 670 | 560 | 475 | 420 | 325 | 255 | 200 | 160 | 130 | 105 | 85 | 65 | 1000 | 690 | 435 | 320 | 225 | 160 | 115 | 85 | 60 | | | | | | |

Carichi variabili uniformemente distribuiti
Variable uniformly distributed loads

Valori in BLU: stati limite ultimo
BLU values: ultimate limit states

Valori in ROSSO: stati limite di esercizio (limitazione freccia 1/200 della luce)
RED values: serviceability limit states (deflection 1/200 span)



# ITP**H 75 - D**

## 570 (passo greche 190 mm)

italpannelli

Sezione lorda **ACCIAIO - STEEL** gross section

| Spessore nominale Nominal thickness (mm) | | 0,50 | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|---|---|---|
| Peso nominale * Weight nominal (Kg./m²) | | 6,9 | 8,3 | 9,6 | 11,0 | 13,8 | 16,5 |
| $J_Y$ | (cm⁴/m) | 61,48 | 74,80 | 86,51 | 99,24 | 122,51 | 144,63 |
| $W_{e,inf}$ | (cm³/m) | 22,38 | 27,23 | 31,48 | 36,11 | 44,58 | 52,62 |
| $W_{e,sup}$ | (cm³/m) | 12,93 | 15,74 | 18,20 | 20,88 | 25,78 | 30,44 |
| $W_p$ | (cm³/m) | 18,92 | 23,13 | 26,89 | 31,00 | 38,67 | 46,14 |

Sezione lorda **ALLUMINIO - ALLUMINUM** gross section

| Spessore nominale Nominal thickness (mm) | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|---|
| Peso nominale * Weight nominal (Kg./m²) | 2,8 | 3,3 | 3,8 | 4,7 | 5,7 |
| $J_Y$ (cm⁴/m) | 77,32 | 88,98 | 101,70 | 126,19 | 148,20 |
| $W_{e,inf}$ (cm³/m) | 28,14 | 32,38 | 37,01 | 45,92 | 53,92 |
| $W_{e,sup}$ (cm³/m) | 16,27 | 18,72 | 21,40 | 26,56 | 31,19 |
| $W_p$ (cm³/m) | 23,92 | 27,66 | 31,78 | 39,85 | 47,30 |

* peso calcolato rispetto alla larghezza utile - weight calculated relevant to working width

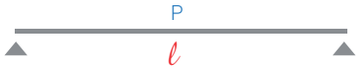
Tabelle portata **ACCIAIO - STEEL** load tables

Tabelle portate **ALLUMINIO - ALLUMINUM** load tables

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm




| mm | ℓ = m | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 230 | 145 | 100 | 85 | 70 | 60 | 50 | | | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 330 | 210 | 140 | 120 | 100 | 85 | 70 | 55 | | | | | | | | 170 | 100 | 55 | | | | | | | | | | | | |
| 0,7 | | 430 | 275 | 185 | 155 | 130 | 105 | 85 | 70 | 55 | | | | | | | 225 | 115 | 65 | | | | | | | | | | | | |
| 0,8 | | 555 | 350 | 240 | 200 | 160 | 130 | 105 | 85 | 70 | 55 | | | | | | 280 | 140 | 75 | 55 | | | | | | | | | | | |
| 1,0 | | 780 | 495 | 340 | 265 | 210 | 165 | 135 | 110 | 90 | 75 | 60 | 50 | | | | 370 | 185 | 100 | 75 | 55 | | | | | | | | | | |
| 1,2 | | 1000 | 725 | 415 | 320 | 255 | 200 | 165 | 135 | 110 | 90 | 75 | 60 | 50 | | | 460 | 225 | 125 | 90 | 70 | 55 | | | | | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

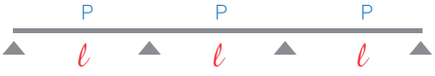
Working width support: 50 mm


| mm | ℓ = m | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 195 | 135 | 100 | 90 | 80 | 70 | 60 | 55 | 50 | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 260 | 185 | 135 | 120 | 105 | 90 | 80 | 75 | 65 | 60 | 55 | 50 | | | | 135 | 95 | 70 | 60 | 55 | 50 | | | | | | | | | |
| 0,7 | | 320 | 225 | 165 | 145 | 125 | 110 | 100 | 90 | 80 | 70 | 65 | 60 | 55 | 50 | | 175 | 120 | 90 | 85 | 75 | 60 | 55 | | | | | | | | |
| 0,8 | | 385 | 270 | 200 | 170 | 150 | 135 | 120 | 105 | 95 | 85 | 75 | 70 | 65 | 60 | 55 | 210 | 150 | 115 | 100 | 90 | 75 | 65 | 60 | 55 | | | | | | |
| 1,0 | | 520 | 360 | 260 | 225 | 200 | 175 | 155 | 140 | 125 | 115 | 105 | 95 | 85 | 80 | 70 | 290 | 205 | 150 | 130 | 110 | 100 | 85 | 75 | 70 | 55 | | | | | |
| 1,2 | | 650 | 450 | 330 | 290 | 255 | 225 | 200 | 180 | 160 | 145 | 130 | 120 | 105 | 95 | 90 | 370 | 255 | 185 | 160 | 140 | 125 | 110 | 95 | 85 | 70 | 55 | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm




| mm | ℓ = m | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 235 | 165 | 125 | 110 | 95 | 85 | 75 | 70 | 60 | 55 | 50 | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 310 | 220 | 165 | 145 | 125 | 115 | 100 | 90 | 80 | 75 | 65 | 60 | 50 | | | 165 | 115 | 85 | 75 | 65 | 55 | | | | | | | | | |
| 0,7 | | 385 | 270 | 200 | 175 | 155 | 135 | 120 | 110 | 100 | 90 | 80 | 70 | 60 | 50 | | 205 | 150 | 110 | 95 | 80 | 65 | 50 | | | | | | | | |
| 0,8 | | 465 | 325 | 240 | 210 | 185 | 165 | 145 | 130 | 120 | 105 | 95 | 85 | 75 | 60 | 55 | 255 | 180 | 135 | 115 | 95 | 75 | 60 | 50 | | | | | | | |
| 1,0 | | 625 | 435 | 320 | 280 | 245 | 220 | 195 | 175 | 155 | 145 | 130 | 110 | 95 | 80 | 70 | 350 | 245 | 180 | 160 | 125 | 100 | 80 | 65 | 50 | | | | | | |
| 1,2 | | 790 | 550 | 405 | 355 | 310 | 275 | 245 | 220 | 200 | 180 | 155 | 135 | 115 | 95 | 85 | 445 | 310 | 225 | 195 | 150 | 120 | 95 | 75 | 60 | 50 | | | | | |

Carichi variabili uniformemente distribuiti
Variable uniformly distributed loads

Valori in BLU: stati limite ultimo
BLU values: ultimate limit states

Valori in ROSSO: stati limite di esercizio (limitazione freccia 1/200 della luce)
RED values: serviceability limit states (deflection 1/200 span)

# ITP**H 75 - R**

## 570 (passo greche 190 mm)

italpannelli

Sezione lorda **ACCIAIO - STEEL** gross section

| Spessore nominale Nominal thickness (mm) | | 0,50 | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|---|---|---|
| Peso nominale * Weight nominal (Kg./m²) | | 6,9 | 8,3 | 9,6 | 11,0 | 13,8 | 16,5 |
| $J_Y$ | (cm⁴/m) | 61,48 | 74,80 | 86,51 | 99,24 | 122,51 | 144,63 |
| $W_{e,inf}$ | (cm³/m) | 12,93 | 15,74 | 18,20 | 20,88 | 25,78 | 30,44 |
| $W_{e,sup}$ | (cm³/m) | 22,38 | 27,23 | 31,48 | 36,11 | 44,58 | 52,62 |
| $W_p$ | (cm³/m) | 18,92 | 23,13 | 26,89 | 31,00 | 38,67 | 46,14 |

Sezione lorda **ALLUMINIO - ALLUMINUM** gross section

| 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|
| 2,8 | 3,3 | 3,8 | 4,7 | 5,7 |
| 77,32 | 88,98 | 101,70 | 126,19 | 148,20 |
| 16,27 | 18,72 | 21,40 | 26,56 | 31,19 |
| 28,14 | 32,38 | 37,01 | 45,92 | 53,92 |
| 23,92 | 27,66 | 31,78 | 39,85 | 47,30 |

* peso calcolato rispetto alla larghezza utile - weight calculated relevant to working width

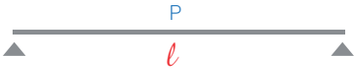
Tabelle portata **ACCIAIO - STEEL** load tables

Tabelle portate **ALLUMINIO - ALLUMINUM** load tables

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm




| mm | ℓ = m | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 340 | 215 | 150 | 125 | 105 | 85 | 70 | 55 | | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 430 | 275 | 185 | 160 | 130 | 105 | 85 | 70 | 55 | | | | | | | 245 | 120 | 65 | 50 | | | | | | | | | | | |
| 0,7 | | 500 | 320 | 215 | 185 | 150 | 120 | 95 | 80 | 65 | 55 | | | | | | 285 | 140 | 75 | 60 | | | | | | | | | | | |
| 0,8 | | 580 | 370 | 255 | 215 | 175 | 140 | 110 | 90 | 75 | 60 | 50 | | | | | 325 | 160 | 90 | 65 | 50 | | | | | | | | | | |
| 1,0 | | 745 | 475 | 325 | 270 | 215 | 170 | 140 | 110 | 90 | 75 | 60 | 50 | | | | 405 | 200 | 110 | 80 | 65 | 50 | | | | | | | | | |
| 1,2 | | 915 | 580 | 400 | 320 | 250 | 200 | 165 | 135 | 110 | 90 | 75 | 60 | 50 | | | 475 | 235 | 130 | 95 | 75 | 55 | | | | | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

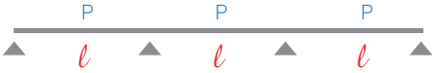
Working width support: 50 mm


| mm | ℓ = m | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 170 | 115 | 80 | 70 | 60 | 55 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 240 | 165 | 120 | 100 | 90 | 80 | 70 | 60 | 55 | 50 | | | | | | 120 | 80 | 55 | 50 | | | | | | | | | | | |
| 0,7 | | 315 | 215 | 155 | 135 | 115 | 100 | 90 | 80 | 70 | 65 | 55 | 50 | | | | 155 | 105 | 75 | 65 | 55 | 50 | | | | | | | | | |
| 0,8 | | 400 | 275 | 200 | 175 | 150 | 135 | 115 | 105 | 95 | 85 | 75 | 70 | 60 | 55 | 50 | 200 | 135 | 95 | 85 | 70 | 65 | 55 | 50 | | | | | | | |
| 1,0 | | 555 | 385 | 280 | 245 | 215 | 190 | 165 | 150 | 135 | 120 | 110 | 100 | 90 | 80 | 75 | 300 | 205 | 145 | 125 | 110 | 95 | 85 | 75 | 65 | 60 | 50 | | | | |
| 1,2 | | 745 | 515 | 375 | 325 | 285 | 250 | 225 | 200 | 180 | 160 | 145 | 130 | 120 | 110 | 100 | 390 | 270 | 195 | 170 | 150 | 130 | 115 | 100 | 85 | 70 | 55 | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm




| mm | ℓ = m | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 205 | 140 | 100 | 90 | 75 | 65 | 60 | 50 | | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 290 | 200 | 145 | 125 | 110 | 95 | 85 | 75 | 70 | 60 | 55 | 50 | | | | 145 | 100 | 70 | 60 | 55 | | | | | | | | | | |
| 0,7 | | 380 | 260 | 190 | 165 | 145 | 125 | 115 | 100 | 90 | 80 | 75 | 65 | 60 | 55 | 50 | 190 | 130 | 95 | 80 | 70 | 60 | 55 | | | | | | | | |
| 0,8 | | 480 | 335 | 245 | 215 | 185 | 165 | 145 | 130 | 115 | 105 | 95 | 85 | 75 | 65 | 55 | 240 | 165 | 120 | 105 | 90 | 80 | 65 | 55 | | | | | | | |
| 1,0 | | 670 | 465 | 340 | 300 | 260 | 230 | 205 | 185 | 165 | 150 | 135 | 115 | 95 | 80 | 70 | 360 | 250 | 180 | 155 | 135 | 105 | 85 | 65 | 55 | | | | | | |
| 1,2 | | 895 | 625 | 460 | 400 | 350 | 310 | 275 | 245 | 220 | 185 | 155 | 135 | 115 | 95 | 85 | 465 | 325 | 240 | 200 | 155 | 125 | 100 | 80 | 65 | 50 | | | | | |

Carichi variabili uniformemente distribuiti
Variable uniformly distributed loads

Valori in BLU: stati limite ultimo
BLU values: ultimate limit states

Valori in ROSSO: stati limite di esercizio (limitazione freccia 1/200 della luce)
RED values: serviceability limit states (deflection 1/200 span)

# ITPH 75 - D

## 820 (passo greche 273 mm)

italpannelli

Sezione lorda **ACCIAIO - STEEL** gross section

| Spessore nominale Nominal thickness (mm) | | 0,50 | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|---|---|---|
| Peso nominale * Weight nominal (Kg./m²) | | 6,0 | 7,2 | 8,4 | 9,6 | 12,0 | 14,4 |
| $J_Y$ | (cm⁴/m) | 51,00 | 62,16 | 72,00 | 82,73 | 102,48 | 121,41 |
| $W_{e,inf}$ | (cm³/m) | 23,40 | 28,50 | 33,01 | 37,92 | 46,94 | 55,57 |
| $W_{e,sup}$ | (cm³/m) | 9,59 | 11,69 | 13,54 | 15,56 | 19,28 | 22,84 |
| $W_p$ | (cm³/m) | 14,13 | 17,30 | 20,12 | 23,23 | 29,05 | 34,76 |

Sezione lorda **ALLUMINIO - ALLUMINUM** gross section

| Spessore nominale Nominal thickness (mm) | | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|---|---|
| Peso nominale * Weight nominal (Kg./m²) | | 2,5 | 2,9 | 3,3 | 4,1 | 4,9 |
| $J_Y$ | (cm⁴/m) | 64,25 | 74,06 | 84,78 | 105,56 | 124,41 |
| $W_{e,inf}$ | (cm³/m) | 29,46 | 33,95 | 38,85 | 48,34 | 56,94 |
| $W_{e,sup}$ | (cm³/m) | 12,08 | 13,92 | 15,94 | 19,86 | 23,41 |
| $W_p$ | (cm³/m) | 17,89 | 20,71 | 23,82 | 29,94 | 35,65 |

* peso calcolato rispetto alla larghezza utile - weight calculated relevant to working width

Tabelle portata **ACCIAIO - STEEL** load tables

Tabelle portate **ALLUMINIO - ALLUMINUM** load tables

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm


| mm | ℓ = m | 2,00 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 6,00 | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,25 | 5,50 | 6,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 160 | 100 | 70 | 55 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 235 | 145 | 100 | 85 | 70 | 60 | 50 | | | | | | | | | 120 | 75 | | | | | | | | | | | | | |
| 0,7 | | 305 | 190 | 130 | 110 | 95 | 80 | 70 | 55 | | | | | | | | 155 | 95 | 50 | | | | | | | | | | | | |
| 0,8 | | 390 | 245 | 170 | 140 | 120 | 105 | 85 | 65 | 55 | | | | | | | 200 | 110 | 60 | | | | | | | | | | | | |
| 1,0 | | 575 | 365 | 250 | 210 | 175 | 140 | 110 | 90 | 75 | 60 | 50 | | | | | 300 | 150 | 80 | 60 | | | | | | | | | | | |
| 1,2 | | 1000 | 610 | 345 | 270 | 210 | 170 | 135 | 110 | 90 | 75 | 60 | 50 | | | | 380 | 190 | 100 | 75 | 60 | | | | | | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

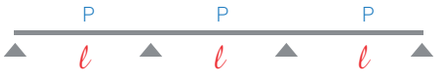
Working width support: 50 mm


| mm | ℓ = m | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 140 | 100 | 75 | 65 | 55 | 50 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 185 | 135 | 100 | 85 | 75 | 70 | 60 | 55 | 50 | | | | | | | 100 | 70 | 55 | | | | | | | | | | | | |
| 0,7 | | 230 | 165 | 125 | 110 | 95 | 85 | 75 | 70 | 60 | 55 | 50 | | | | | 125 | 90 | 65 | 55 | 50 | | | | | | | | | | |
| 0,8 | | 285 | 200 | 150 | 130 | 115 | 105 | 90 | 85 | 75 | 65 | 60 | 55 | 50 | | | 150 | 110 | 80 | 70 | 60 | 55 | 50 | | | | | | | | |
| 1,0 | | 385 | 275 | 205 | 180 | 160 | 140 | 125 | 110 | 100 | 90 | 85 | 75 | 70 | 65 | 60 | 210 | 150 | 110 | 100 | 85 | 75 | 65 | 60 | 55 | | | | | | |
| 1,2 | | 495 | 350 | 260 | 230 | 200 | 180 | 160 | 145 | 130 | 115 | 105 | 95 | 90 | 80 | 75 | 270 | 195 | 145 | 125 | 110 | 95 | 85 | 75 | 70 | 55 | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm

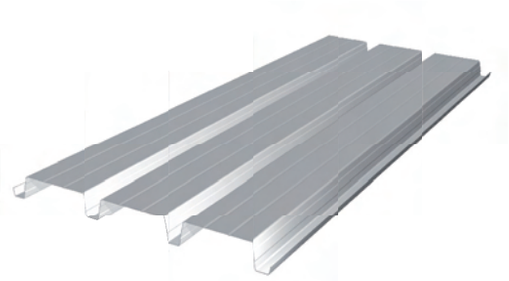



| mm | ℓ = m | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,00 | 5,50 | 6,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 165 | 120 | 90 | 80 | 70 | 60 | 55 | 50 | | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 220 | 160 | 120 | 105 | 95 | 85 | 75 | 70 | 60 | 55 | 50 | | | | | 120 | 85 | 65 | 55 | 50 | | | | | | | | | | |
| 0,7 | | 275 | 200 | 150 | 130 | 115 | 105 | 95 | 85 | 75 | 70 | 65 | 55 | 50 | | | 150 | 105 | 80 | 70 | 60 | 50 | | | | | | | | | |
| 0,8 | | 340 | 245 | 185 | 160 | 145 | 125 | 115 | 105 | 95 | 85 | 75 | 70 | 60 | 50 | | 180 | 130 | 100 | 85 | 75 | 60 | | | | | | | | | |
| 1,0 | | 465 | 330 | 250 | 220 | 195 | 170 | 155 | 140 | 125 | 115 | 105 | 90 | 80 | 65 | 55 | 255 | 185 | 135 | 125 | 105 | 85 | 65 | 55 | | | | | | | |
| 1,2 | | 600 | 425 | 325 | 280 | 245 | 220 | 195 | 180 | 160 | 145 | 130 | 115 | 95 | 85 | 70 | 335 | 235 | 175 | 155 | 125 | 105 | 85 | 65 | 55 | | | | | | |

Carichi variabili uniformemente distribuiti
Variable uniformly distributed loads

Valori in BLU: stati limite ultimo
BLU values: ultimate limit states

Valori in ROSSO: stati limite di esercizio (limitazione freccia 1/200 della luce)
RED values: serviceability limit states (deflection 1/200 span)



# ITP**H 75 - R**

## 820 (passo greche 273 mm)

italpannelli

Sezione lorda **ACCIAIO - STEEL** gross section

| Spessore nominale Nominal thickness (mm) | | 0,50 | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|---|---|---|
| Peso nominale * Weight nominal (Kg./m²) | | 6,0 | 7,2 | 8,4 | 9,6 | 12,0 | 14,4 |
| $J_Y$ | (cm⁴/m) | 51,00 | 62,16 | 72,00 | 82,73 | 102,48 | 121,41 |
| $W_{e,inf}$ | (cm³/m) | 9,59 | 11,69 | 13,54 | 15,56 | 19,28 | 22,84 |
| $W_{e,sup}$ | (cm³/m) | 23,40 | 28,50 | 33,01 | 37,92 | 46,94 | 55,57 |
| $W_p$ | (cm³/m) | 14,12 | 17,27 | 20,09 | 23,18 | 28,95 | 34,16 |

Sezione lorda **ALLUMINIO - ALLUMINUM** gross section

| 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|
| 2,5 | 2,9 | 3,3 | 4,1 | 4,9 |
| 64,25 | 74,06 | 84,78 | 105,56 | 124,41 |
| 12,08 | 13,92 | 15,94 | 19,86 | 23,41 |
| 29,46 | 33,95 | 38,85 | 48,34 | 56,94 |
| 17,86 | 20,67 | 23,76 | 29,83 | 35,01 |

* peso calcolato rispetto alla larghezza utile - weight calculated relevant to working width

Tabelle portata **ACCIAIO - STEEL** load tables

Tabelle portate **ALLUMINIO - ALLUMINUM** load tables

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm


| mm | ℓ = m | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 265 | 180 | 125 | 105 | 85 | 70 | 55 | | | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 365 | 230 | 160 | 135 | 105 | 85 | 70 | 55 | | | | | | | | 180 | 100 | 55 | | | | | | | | | | | | |
| 0,7 | | 435 | 275 | 190 | 160 | 125 | 100 | 80 | 65 | 55 | | | | | | | 230 | 115 | 65 | | | | | | | | | | | | |
| 0,8 | | 510 | 325 | 220 | 180 | 145 | 115 | 90 | 75 | 60 | 50 | | | | | | 270 | 135 | 70 | 55 | | | | | | | | | | | |
| 1,0 | | 655 | 415 | 285 | 225 | 180 | 140 | 115 | 95 | 75 | 60 | 50 | | | | | 340 | 165 | 90 | 70 | 50 | | | | | | | | | | |
| 1,2 | | 805 | 510 | 345 | 270 | 210 | 170 | 135 | 110 | 90 | 75 | 60 | 50 | | | | 400 | 195 | 105 | 80 | 60 | | | | | | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm


| mm | ℓ = m | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 115 | 80 | 55 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 165 | 115 | 80 | 70 | 60 | 55 | | | | | | | | | | 80 | 55 | | | | | | | | | | | | | |
| 0,7 | | 220 | 150 | 110 | 95 | 80 | 70 | 60 | 55 | 50 | | | | | | | 105 | 70 | 50 | | | | | | | | | | | | |
| 0,8 | | 280 | 195 | 140 | 120 | 105 | 90 | 80 | 70 | 65 | 55 | 50 | | | | | 140 | 95 | 65 | 55 | 50 | | | | | | | | | | |
| 1,0 | | 400 | 275 | 200 | 175 | 155 | 135 | 120 | 105 | 95 | 85 | 75 | 70 | 65 | 55 | 50 | 210 | 140 | 100 | 85 | 75 | 65 | 55 | 50 | | | | | | | |
| 1,2 | | 535 | 370 | 270 | 235 | 205 | 180 | 160 | 145 | 130 | 115 | 105 | 95 | 85 | 80 | 70 | 280 | 190 | 140 | 120 | 105 | 90 | 80 | 70 | 60 | 55 | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

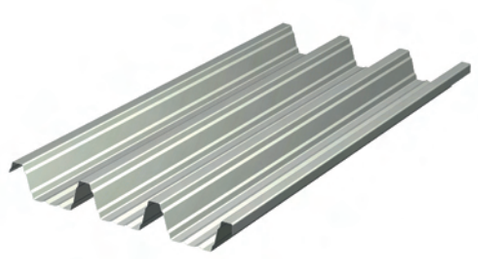
Working width support: 50 mm


| mm | ℓ = m | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 140 | 95 | 70 | 60 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 205 | 140 | 100 | 85 | 75 | 65 | 60 | 50 | | | | | | | | 100 | 65 | 50 | | | | | | | | | | | | |
| 0,7 | | 265 | 180 | 130 | 115 | 100 | 90 | 75 | 70 | 60 | 55 | 50 | | | | | 130 | 90 | 65 | 55 | | | | | | | | | | | |
| 0,8 | | 340 | 235 | 170 | 150 | 130 | 115 | 100 | 90 | 80 | 70 | 65 | 60 | 55 | 50 | | 165 | 115 | 80 | 70 | 60 | 55 | | | | | | | | | |
| 1,0 | | 480 | 335 | 245 | 215 | 190 | 165 | 150 | 130 | 120 | 105 | 95 | 90 | 80 | 70 | 60 | 250 | 175 | 125 | 110 | 95 | 80 | 70 | 55 | | | | | | | |
| 1,2 | | 645 | 450 | 330 | 290 | 255 | 225 | 200 | 180 | 160 | 145 | 130 | 110 | 95 | 80 | 70 | 335 | 235 | 170 | 150 | 130 | 105 | 80 | 65 | 50 | | | | | | |

Carichi variabili uniformemente distribuiti
Variable uniformly distributed loads

Valori in BLU: stati limite ultimo
BLU values: ultimate limit states

Valori in ROSSO: stati limite di esercizio (limitazione freccia 1/200 della luce)
RED values: serviceability limit states (deflection 1/200 span)



# ITP**H 106 - D**

## 798 (passo greche 250 mm)

italpannelli

Sezione lorda **ACCIAIO - STEEL** gross section

| Spessore nominale Nominal thickness (mm) | | 0,50 | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|---|---|---|
| Peso nominale * Weight nominal (Kg./m²) | | 6,5 | 7,9 | 9,2 | 10,5 | 13,1 | 15,7 |
| $J_y$ | (cm⁴/m) | 110,88 | 135,19 | 156,67 | 180,12 | 223,31 | 264,80 |
| $W_{e,inf}$ | (cm³/m) | 16,86 | 20,56 | 23,83 | 27,40 | 33,97 | 40,29 |
| $W_{e,sup}$ | (cm³/m) | 27,55 | 33,59 | 38,92 | 44,74 | 55,46 | 65,75 |
| $W_p$ | (cm³/m) | 25,51 | 31,23 | 36,34 | 41,95 | 52,45 | 62,72 |

Sezione lorda **ALLUMINIO - ALLUMINUM** gross section

| 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|
| 2,7 | 3,2 | 3,6 | 4,5 | 5,4 |
| 139,77 | 161,18 | 184,62 | 230,11 | 271,44 |
| 21,26 | 24,52 | 28,08 | 35,01 | 41,30 |
| 34,72 | 40,04 | 45,86 | 57,14 | 67,39 |
| 32,29 | 37,39 | 43,01 | 54,06 | 64,32 |

* peso calcolato rispetto alla larghezza utile - weight calculated relevant to working width

Tabelle portata **ACCIAIO - STEEL** load tables

Tabelle portate **ALLUMINIO - ALLUMINUM** load tables

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm


| mm | ℓ = m | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 465 | 290 | 195 | 165 | 140 | 120 | 100 | 85 | 75 | 60 | 50 | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 595 | 370 | 250 | 210 | 180 | 155 | 130 | 115 | 95 | 75 | 60 | 50 | | | | 360 | 215 | 115 | 85 | 60 | | | | | | | | | | |
| 0,7 | | 710 | 450 | 305 | 255 | 220 | 185 | 160 | 140 | 110 | 90 | 75 | 60 | 50 | | | 420 | 250 | 135 | 100 | 75 | 55 | | | | | | | | | |
| 0,8 | | 860 | 540 | 370 | 310 | 265 | 230 | 195 | 160 | 130 | 105 | 90 | 70 | 60 | 50 | | 490 | 290 | 155 | 115 | 90 | 65 | 50 | | | | | | | | |
| 1,0 | | 1000 | 730 | 500 | 420 | 360 | 310 | 250 | 205 | 165 | 135 | 115 | 95 | 75 | 65 | 50 | 645 | 365 | 200 | 150 | 115 | 85 | 65 | 50 | | | | | | | |
| 1,2 | | - | 910 | 625 | 530 | 450 | 370 | 300 | 245 | 200 | 165 | 135 | 115 | 95 | 80 | 65 | 795 | 435 | 235 | 180 | 135 | 105 | 80 | 60 | | | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

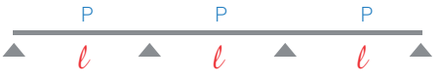
Working width support: 50 mm


| mm | ℓ = m | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 380 | 235 | 160 | 130 | 110 | 95 | 80 | 70 | 60 | 50 | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 510 | 320 | 215 | 180 | 150 | 130 | 110 | 95 | 85 | 70 | 65 | 55 | 50 | | | 275 | 170 | 110 | 90 | 75 | 60 | 50 | | | | | | | | |
| 0,7 | | 630 | 395 | 270 | 225 | 190 | 165 | 140 | 120 | 105 | 95 | 80 | 70 | 65 | 55 | 50 | 345 | 210 | 140 | 115 | 95 | 80 | 70 | 60 | 50 | | | | | | |
| 0,8 | | 765 | 480 | 325 | 275 | 235 | 200 | 175 | 150 | 130 | 115 | 100 | 90 | 80 | 70 | 65 | 420 | 260 | 175 | 145 | 120 | 100 | 85 | 75 | 65 | 55 | | | | | |
| 1,0 | | 1000 | 635 | 435 | 365 | 310 | 270 | 230 | 205 | 180 | 155 | 140 | 125 | 110 | 100 | 90 | 580 | 365 | 245 | 205 | 170 | 145 | 125 | 110 | 95 | 80 | 70 | 60 | 55 | | |
| 1,2 | | - | 765 | 520 | 440 | 375 | 325 | 280 | 245 | 215 | 190 | 170 | 150 | 135 | 120 | 110 | 735 | 460 | 310 | 260 | 220 | 190 | 160 | 140 | 120 | 105 | 95 | 80 | 70 | 60 | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm




| mm | ℓ = m | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 485 | 300 | 205 | 170 | 145 | 120 | 105 | 90 | 80 | 70 | 60 | 50 | | | | | | | | | | | | | | | | | | |
| 0,6 | | 645 | 405 | 275 | 230 | 195 | 165 | 145 | 125 | 110 | 95 | 85 | 75 | 65 | 60 | 50 | 350 | 215 | 145 | 120 | 100 | 85 | 70 | 60 | 50 | | | | | | |
| 0,7 | | 795 | 500 | 340 | 285 | 245 | 210 | 180 | 160 | 140 | 120 | 105 | 95 | 85 | 75 | 65 | 435 | 270 | 180 | 150 | 125 | 105 | 90 | 80 | 65 | 50 | | | | | |
| 0,8 | | 965 | 610 | 415 | 350 | 300 | 255 | 220 | 195 | 170 | 150 | 135 | 120 | 105 | 95 | 85 | 530 | 330 | 225 | 185 | 155 | 135 | 115 | 95 | 75 | 60 | | | | | |
| 1,0 | | 1000 | 805 | 550 | 465 | 395 | 340 | 295 | 260 | 230 | 205 | 180 | 160 | 145 | 130 | 115 | 735 | 460 | 310 | 260 | 220 | 190 | 150 | 120 | 95 | 80 | 65 | 50 | | | |
| 1,2 | | - | 960 | 660 | 555 | 475 | 410 | 355 | 315 | 275 | 245 | 220 | 195 | 175 | 160 | 140 | 925 | 580 | 395 | 335 | 285 | 230 | 180 | 145 | 120 | 95 | 75 | 60 | 50 | | |

Carichi variabili uniformemente distribuiti
Variable uniformly distributed loads

Valori in BLU: stati limite ultimo
BLU values: ultimate limit states

Valori in ROSSO: stati limite di esercizio (limitazione freccia 1/200 della luce)
RED values: serviceability limit states (deflection 1/200 span)

# ITP**H106 - R**

## 798 (passo greche 250 mm)

italpannelli

Sezione lorda **ACCIAIO - STEEL** gross section

| Spessore nominale Nominal thickness (mm) | | 0,50 | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|---|---|---|
| Peso nominale * Weight nominal (Kg./m²) | | 6,5 | 7,9 | 9,2 | 10,5 | 13,1 | 15,7 |
| $J_Y$ | (cm⁴/m) | 110,73 | 135,00 | 156,44 | 179,83 | 222,93 | 264,30 |
| $W_{e,inf}$ | (cm³/m) | 27,55 | 33,59 | 38,93 | 44,76 | 55,49 | 65,79 |
| $W_{e,sup}$ | (cm³/m) | 16,83 | 20,51 | 23,77 | 27,32 | 33,87 | 40,15 |
| $W_p$ | (cm³/m) | 25,50 | 31,22 | 36,32 | 41,94 | 52,43 | 62,71 |

Sezione lorda **ALLUMINIO - ALLUMINUM** gross section

| Spessore nominale Nominal thickness (mm) | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|---|
| Peso nominale * Weight nominal (Kg./m²) | 2,7 | 3,2 | 3,6 | 4,5 | 5,4 |
| $J_Y$ (cm⁴/m) | 139,57 | 160,94 | 184,33 | 229,70 | 270,91 |
| $W_{e,inf}$ (cm³/m) | 34,73 | 40,05 | 45,87 | 57,17 | 67,44 |
| $W_{e,sup}$ (cm³/m) | 21,21 | 24,45 | 28,01 | 34,90 | 41,15 |
| $W_p$ (cm³/m) | 32,28 | 37,38 | 42,99 | 54,04 | 64,30 |

* peso calcolato rispetto alla larghezza utile - weight calculated relevant to working width

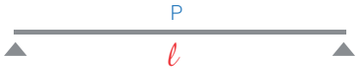
Tabelle portata **ACCIAIO - STEEL** load tables

Tabelle portate **ALLUMINIO - ALLUMINUM** load tables

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm




| mm | ℓ = m | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 395 | 245 | 165 | 135 | 115 | 95 | 85 | 70 | 60 | 50 | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 530 | 330 | 220 | 185 | 155 | 135 | 115 | 100 | 85 | 70 | 55 | | | | | 285 | 175 | 100 | 70 | 55 | | | | | | | | | | |
| 0,7 | | 655 | 410 | 280 | 235 | 200 | 170 | 145 | 125 | 105 | 85 | 70 | 55 | | | | 355 | 220 | 120 | 90 | 65 | 50 | | | | | | | | | |
| 0,8 | | 790 | 500 | 340 | 285 | 240 | 210 | 180 | 155 | 125 | 100 | 85 | 70 | 55 | | | 440 | 265 | 140 | 105 | 80 | 60 | | | | | | | | | |
| 1,0 | | 1000 | 655 | 445 | 375 | 320 | 275 | 240 | 200 | 165 | 135 | 110 | 95 | 75 | 65 | 50 | 605 | 345 | 190 | 140 | 105 | 80 | 60 | | | | | | | | |
| 1,2 | | - | 1000 | 755 | 585 | 470 | 375 | 300 | 245 | 205 | 165 | 140 | 120 | 95 | 80 | 65 | 760 | 425 | 230 | 175 | 135 | 100 | 80 | 60 | | | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

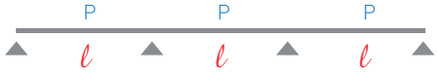
Working width support: 50 mm


| mm | ℓ = m | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 400 | 260 | 180 | 150 | 130 | 110 | 95 | 85 | 75 | 65 | 55 | 50 | | | | | | | | | | | | | | | | | | |
| 0,6 | | 515 | 335 | 235 | 200 | 170 | 150 | 130 | 115 | 100 | 90 | 80 | 70 | 60 | 55 | 50 | 290 | 185 | 125 | 105 | 90 | 75 | 65 | 55 | 50 | | | | | | |
| 0,7 | | 620 | 405 | 285 | 240 | 210 | 180 | 160 | 140 | 120 | 110 | 95 | 85 | 75 | 70 | 60 | 350 | 225 | 155 | 130 | 110 | 95 | 80 | 70 | 60 | 50 | | | | | |
| 0,8 | | 765 | 505 | 355 | 300 | 255 | 220 | 190 | 165 | 145 | 130 | 115 | 105 | 95 | 85 | 75 | 415 | 270 | 185 | 155 | 135 | 115 | 100 | 85 | 75 | 65 | 55 | 50 | | | |
| 1,0 | | 1000 | 650 | 460 | 390 | 335 | 295 | 255 | 225 | 200 | 180 | 160 | 145 | 130 | 115 | 105 | 550 | 360 | 250 | 210 | 180 | 155 | 135 | 120 | 105 | 90 | 80 | 70 | 55 | | |
| 1,2 | | - | 815 | 575 | 490 | 425 | 370 | 325 | 285 | 255 | 225 | 205 | 185 | 165 | 150 | 135 | 685 | 445 | 310 | 265 | 225 | 195 | 170 | 150 | 130 | 115 | 105 | 85 | 70 | 55 | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm

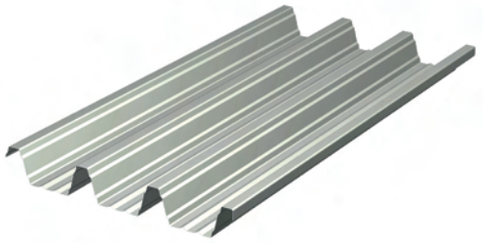



| mm | ℓ = m | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 505 | 330 | 230 | 195 | 165 | 145 | 125 | 110 | 95 | 85 | 75 | 70 | 60 | 55 | 50 | | | | | | | | | | | | | | | |
| 0,6 | | 650 | 425 | 300 | 255 | 220 | 190 | 165 | 145 | 130 | 115 | 105 | 90 | 80 | 75 | 65 | 370 | 240 | 165 | 140 | 120 | 95 | 75 | 60 | | | | | | | |
| 0,7 | | 780 | 515 | 360 | 310 | 265 | 230 | 205 | 180 | 160 | 140 | 125 | 115 | 100 | 90 | 80 | 445 | 285 | 200 | 170 | 145 | 115 | 90 | 70 | 55 | | | | | | |
| 0,8 | | 965 | 635 | 450 | 380 | 325 | 280 | 245 | 215 | 190 | 170 | 150 | 135 | 120 | 110 | 95 | 525 | 340 | 240 | 200 | 175 | 140 | 110 | 85 | 70 | 55 | | | | | |
| 1,0 | | 1000 | 820 | 580 | 495 | 430 | 375 | 330 | 290 | 260 | 230 | 205 | 185 | 170 | 145 | 125 | 695 | 455 | 320 | 270 | 230 | 185 | 145 | 115 | 95 | 75 | 60 | | | | |
| 1,2 | | - | 1000 | 725 | 620 | 535 | 470 | 415 | 365 | 325 | 290 | 260 | 235 | 210 | 180 | 155 | 860 | 565 | 395 | 340 | 280 | 225 | 180 | 145 | 115 | 95 | 75 | 60 | 50 | | |

Carichi variabili uniformemente distribuiti
Variable uniformly distributed loads

Valori in BLU: stati limite ultimo
BLU values: ultimate limit states

Valori in ROSSO: stati limite di esercizio (limitazione freccia 1/200 della luce)
RED values: serviceability limit states (deflection 1/200 span)



# ITP**H 106 - D**

## 1040 (passo greche 333 mm)

italpannelli

Sezione lorda **ACCIAIO - STEEL** gross section

| Spessore nominale Nominal thickness (mm) | | 0,50 | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|---|---|---|
| Peso nominale * Weight nominal (Kg./m²) | | 5,9 | 7,1 | 8,2 | 9,4 | 11,8 | 14,1 |
| $J_Y$ | (cm⁴/m) | 98,43 | 120,16 | 139,40 | 160,45 | 199,40 | 237,03 |
| $W_{e,inf}$ | (cm³/m) | 13,60 | 16,60 | 19,26 | 22,17 | 27,56 | 32,76 |
| $W_{e,sup}$ | (cm³/m) | 29,28 | 35,74 | 41,46 | 47,71 | 59,27 | 70,43 |
| $W_p$ | (cm³/m) | 21,57 | 26,42 | 30,76 | 35,53 | 44,47 | 53,24 |

Sezione lorda **ALLUMINIO - ALLUMINUM** gross section

| 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|
| 2,4 | 2,8 | 3,2 | 4,1 | 4,9 |
| 124,23 | 143,42 | 164,47 | 205,48 | 242,97 |
| 17,16 | 19,82 | 22,73 | 28,40 | 33,59 |
| 36,95 | 42,65 | 48,90 | 61,07 | 72,19 |
| 27,32 | 31,65 | 36,42 | 45,84 | 54,60 |

* peso calcolato rispetto alla larghezza utile - weight calculated relevant to working width

Tabelle portata **ACCIAIO - STEEL** load tables

Tabelle portate **ALLUMINIO - ALLUMINUM** load tables

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm


| mm | ℓ = m | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 360 | 225 | 150 | 125 | 105 | 90 | 75 | 65 | 55 | 50 | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 475 | 300 | 200 | 170 | 140 | 120 | 105 | 90 | 80 | 65 | 55 | | | | | 305 | 190 | 100 | 75 | 55 | | | | | | | | | | |
| 0,7 | | 585 | 365 | 250 | 210 | 175 | 150 | 130 | 115 | 100 | 80 | 65 | 50 | | | | 365 | 220 | 120 | 90 | 65 | 50 | | | | | | | | | |
| 0,8 | | 705 | 445 | 300 | 255 | 215 | 185 | 160 | 140 | 115 | 95 | 75 | 65 | 50 | | | 430 | 255 | 140 | 105 | 80 | 60 | | | | | | | | | |
| 1,0 | | 925 | 585 | 400 | 335 | 285 | 245 | 215 | 180 | 150 | 120 | 100 | 85 | 70 | 55 | | 560 | 325 | 175 | 135 | 100 | 75 | 60 | | | | | | | | |
| 1,2 | | 1000 | 725 | 495 | 420 | 355 | 305 | 265 | 220 | 180 | 150 | 120 | 100 | 85 | 70 | 60 | 680 | 385 | 210 | 160 | 120 | 95 | 70 | 55 | | | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

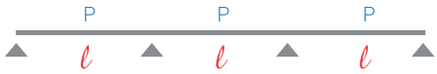
Working width support: 50 mm


| mm | ℓ = m | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 300 | 185 | 120 | 100 | 85 | 70 | 60 | 50 | | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 400 | 250 | 165 | 140 | 115 | 100 | 85 | 75 | 65 | 55 | | | | | | 215 | 130 | 85 | 70 | 55 | | | | | | | | | | |
| 0,7 | | 500 | 310 | 210 | 175 | 150 | 125 | 110 | 95 | 80 | 70 | 60 | 55 | | | | 270 | 165 | 105 | 90 | 75 | 60 | 50 | | | | | | | | |
| 0,8 | | 610 | 380 | 260 | 215 | 185 | 155 | 135 | 115 | 100 | 90 | 80 | 70 | 60 | 55 | 50 | 330 | 205 | 135 | 110 | 95 | 80 | 65 | 55 | | | | | | | |
| 1,0 | | 810 | 510 | 345 | 290 | 250 | 215 | 185 | 160 | 140 | 125 | 110 | 95 | 85 | 75 | 70 | 460 | 285 | 190 | 160 | 135 | 115 | 95 | 85 | 70 | 60 | 55 | | | | |
| 1,2 | | 975 | 615 | 420 | 350 | 300 | 260 | 225 | 195 | 170 | 150 | 135 | 120 | 105 | 95 | 85 | 585 | 365 | 245 | 205 | 175 | 145 | 125 | 110 | 95 | 80 | 70 | 60 | 55 | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm

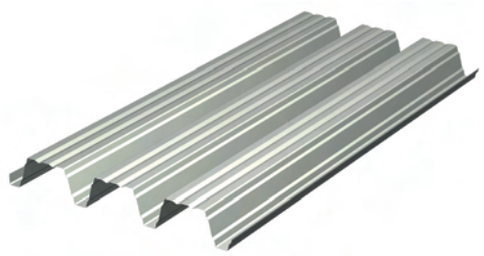



| mm | ℓ = m | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 380 | 235 | 160 | 130 | 110 | 95 | 80 | 70 | 60 | 50 | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 505 | 315 | 215 | 180 | 150 | 130 | 110 | 95 | 85 | 75 | 65 | 55 | 50 | | | 275 | 165 | 110 | 90 | 75 | 65 | 55 | | | | | | | | |
| 0,7 | | 630 | 395 | 265 | 225 | 190 | 165 | 140 | 120 | 105 | 95 | 80 | 75 | 65 | 55 | 50 | 340 | 210 | 140 | 115 | 95 | 80 | 70 | 60 | 50 | | | | | | |
| 0,8 | | 765 | 485 | 330 | 275 | 235 | 200 | 175 | 150 | 135 | 115 | 105 | 90 | 80 | 75 | 65 | 420 | 260 | 175 | 145 | 120 | 105 | 90 | 75 | 65 | 50 | | | | | |
| 1,0 | | 1000 | 645 | 440 | 370 | 315 | 275 | 235 | 205 | 180 | 160 | 145 | 125 | 115 | 100 | 90 | 580 | 365 | 245 | 205 | 175 | 150 | 125 | 110 | 85 | 70 | 55 | | | | |
| 1,2 | | - | 775 | 530 | 445 | 380 | 330 | 285 | 250 | 220 | 195 | 175 | 155 | 140 | 125 | 110 | 740 | 465 | 315 | 265 | 225 | 190 | 160 | 130 | 105 | 85 | 70 | 55 | | | |

Carichi variabili uniformemente distribuiti
Variable uniformly distributed loads

Valori in BLU: stati limite ultimo
BLU values: ultimate limit states

Valori in ROSSO: stati limite di esercizio (limitazione freccia 1/200 della luce)
RED values: serviceability limit states (deflection 1/200 span)



# ITP**H 106 - R**

## 1040 (passo greche 333 mm)

italpannelli

Sezione lorda **ACCIAIO - STEEL** gross section

| Spessore nominale Nominal thickness (mm) | | 0,50 | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|---|---|---|
| Peso nominale * Weight nominal (Kg./m²) | | 5,9 | 7,1 | 8,2 | 9,4 | 11,8 | 14,1 |
| $J_y$ | (cm⁴/m) | 98,28 | 119,96 | 139,15 | 160,14 | 198,98 | 236,46 |
| $W_{e,inf}$ | (cm³/m) | 29,28 | 35,73 | 41,45 | 47,70 | 59,27 | 70,43 |
| $W_{e,sup}$ | (cm³/m) | 13,57 | 16,56 | 19,21 | 22,11 | 27,47 | 32,65 |
| $W_p$ | (cm³/m) | 21,54 | 26,38 | 30,70 | 35,46 | 44,37 | 53,11 |

Sezione lorda **ALLUMINIO - ALLUMINUM** gross section

| Spessore nominale Nominal thickness (mm) | 0,60 | 0,70 | 0,80 | 1,00 | 1,20 |
|---|---|---|---|---|---|
| Peso nominale * Weight nominal (Kg./m²) | 2,4 | 2,8 | 3,2 | 4,1 | 4,9 |
| $J_y$ (cm⁴/m) | 124,02 | 143,16 | 164,15 | 205,03 | 242,38 |
| $W_{e,inf}$ (cm³/m) | 36,94 | 42,64 | 48,89 | 61,07 | 72,19 |
| $W_{e,sup}$ (cm³/m) | 17,12 | 19,77 | 22,66 | 28,31 | 33,47 |
| $W_p$ (cm³/m) | 27,28 | 31,59 | 36,35 | 45,73 | 54,46 |

* peso calcolato rispetto alla larghezza utile - weight calculated relevant to working width

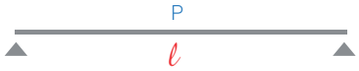
Tabelle portata **ACCIAIO - STEEL** load tables

Tabelle portate **ALLUMINIO - ALLUMINUM** load tables

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm




| mm | ℓ = m | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 305 | 190 | 125 | 105 | 85 | 75 | 60 | 55 | | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 415 | 260 | 175 | 145 | 120 | 105 | 90 | 75 | 65 | 55 | 50 | | | | | 220 | 135 | 85 | 60 | | | | | | | | | | | |
| 0,7 | | 515 | 325 | 220 | 180 | 155 | 130 | 115 | 100 | 85 | 75 | 60 | 50 | | | | 275 | 170 | 105 | 75 | 55 | | | | | | | | | | |
| 0,8 | | 635 | 400 | 270 | 225 | 190 | 165 | 140 | 125 | 105 | 90 | 75 | 60 | 50 | | | 345 | 210 | 125 | 95 | 70 | 50 | | | | | | | | | |
| 1,0 | | 840 | 530 | 360 | 305 | 260 | 220 | 190 | 165 | 145 | 120 | 100 | 80 | 70 | 55 | | 485 | 300 | 165 | 125 | 95 | 70 | 55 | | | | | | | | |
| 1,2 | | 1000 | 1000 | 675 | 525 | 415 | 330 | 265 | 220 | 180 | 145 | 120 | 100 | 85 | 70 | 55 | 615 | 380 | 205 | 155 | 120 | 90 | 70 | 50 | | | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

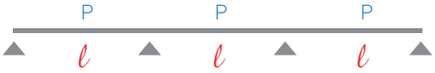
Working width support: 50 mm


| mm | ℓ = m | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 275 | 180 | 125 | 105 | 90 | 75 | 65 | 55 | 50 | | | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 370 | 240 | 170 | 145 | 125 | 105 | 90 | 80 | 70 | 60 | 55 | 50 | | | | 235 | 150 | 105 | 85 | 75 | 65 | 55 | | | | | | | | |
| 0,7 | | 455 | 300 | 210 | 180 | 155 | 135 | 120 | 105 | 90 | 80 | 70 | 65 | 55 | 50 | | 280 | 180 | 125 | 105 | 90 | 75 | 65 | 55 | 50 | | | | | | |
| 0,8 | | 555 | 370 | 260 | 225 | 195 | 170 | 145 | 130 | 115 | 100 | 90 | 80 | 70 | 65 | 55 | 330 | 215 | 150 | 125 | 110 | 95 | 80 | 70 | 60 | 55 | | | | | |
| 1,0 | | 740 | 495 | 350 | 300 | 260 | 225 | 195 | 175 | 155 | 135 | 120 | 110 | 100 | 90 | 80 | 435 | 285 | 200 | 170 | 145 | 125 | 110 | 95 | 85 | 75 | 65 | 55 | 50 | | |
| 1,2 | | 920 | 615 | 440 | 380 | 325 | 285 | 250 | 220 | 195 | 175 | 155 | 140 | 125 | 115 | 105 | 530 | 350 | 250 | 210 | 180 | 155 | 135 | 120 | 105 | 95 | 80 | 75 | 60 | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm

Working width support: 50 mm




| mm | ℓ = m | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 | 2,00 | 2,50 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,5 | P = Kg./m² | 350 | 230 | 160 | 135 | 115 | 100 | 85 | 75 | 65 | 60 | 50 | | | | | | | | | | | | | | | | | | | |
| 0,6 | | 465 | 310 | 215 | 185 | 160 | 140 | 120 | 105 | 95 | 85 | 75 | 65 | 60 | 50 | | 295 | 195 | 135 | 115 | 95 | 85 | 65 | 50 | | | | | | | |
| 0,7 | | 575 | 380 | 270 | 230 | 200 | 175 | 155 | 135 | 120 | 105 | 95 | 85 | 75 | 70 | 60 | 355 | 230 | 160 | 135 | 120 | 100 | 80 | 65 | 50 | | | | | | |
| 0,8 | | 700 | 465 | 330 | 285 | 245 | 215 | 190 | 165 | 150 | 130 | 120 | 105 | 95 | 85 | 75 | 415 | 275 | 195 | 165 | 140 | 120 | 95 | 75 | 60 | | | | | | |
| 1,0 | | 930 | 625 | 445 | 380 | 330 | 290 | 255 | 225 | 200 | 175 | 160 | 145 | 130 | 115 | 105 | 545 | 360 | 255 | 220 | 190 | 160 | 130 | 105 | 80 | 65 | 50 | | | | |
| 1,2 | | 1000 | 775 | 555 | 480 | 415 | 365 | 320 | 285 | 250 | 225 | 205 | 185 | 165 | 150 | 135 | 670 | 445 | 315 | 270 | 235 | 200 | 160 | 125 | 100 | 80 | 65 | 55 | | | |

Carichi variabili uniformemente distribuiti
Variable uniformly distributed loads

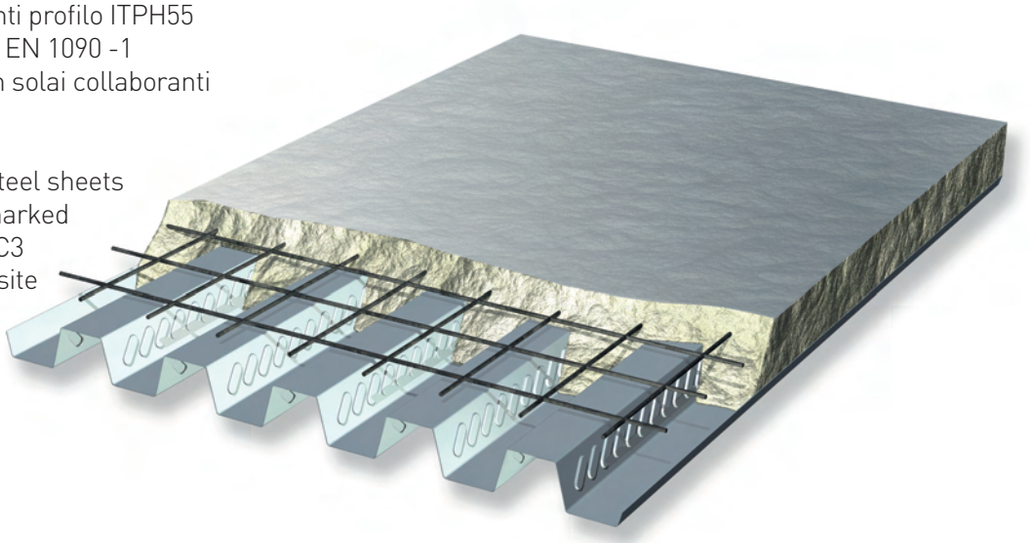
Valori in BLU: stati limite ultimo
BLU values: ultimate limit states

Valori in ROSSO: stati limite di esercizio (limitazione freccia 1/200 della luce)
RED values: serviceability limit states (deflection 1/200 span)

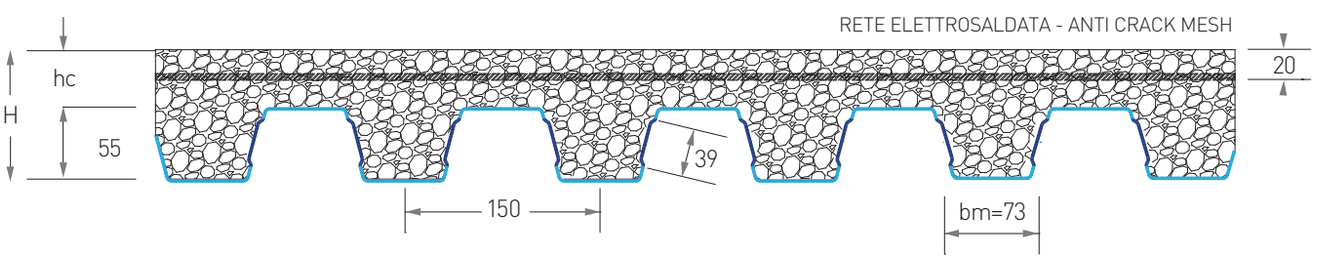
# ITP H55 - BETON
600/750/900

Lamiere grecate collaboranti profilo ITPH55
marcate CE in accordo alla EN 1090 -1
Classe EXC3 da utilizzare in solai collaboranti
acciaio - calcestruzzo

Collaborating trapezoidal steel sheets
ITP H55 Beton profile CE marked
according to EN 1090-1 EXC3
class to be used for composite
floor steel - concrete.



Passo greche - Ribs step 600 mm - **5 Greche - Ribs**
Passo greche - Ribs step 750 mm - **6 Greche - Ribs**
Passo greche - Ribs step 900 mm - **7 Greche - Ribs**




## Materiali per solai collaboranti / Materials for collaborating floor

| | | |
|---|---|---|
| Lamiera di acciaio<br>Steel sheet | Tipo - Type | S280GD UNI EN 10346 |
| | Spessore - Thickness * | Par. 4.3.6.5.1 NTC/2008 |
| Calcestrutto<br>Concrete | Classe - Class | C25/30 D.M. 14/01/2008 |
| | Spessore - Thickness | $h_c \geq 40$ mm |
| Diametro inerte<br>Diameter concrete | ≤ | 0,4 * $h_c$ |
| | | $b_m/3 = 24,3$ mm |

Sezione minima rete elettrosaldata di ripartizione
(a 20 mm dall'estradosso della soletta)
Minimun section detailed rebars and anti-crack mesh
(at 20 mm from top slab)

| H | A ** | Non puntellate/Un-supported | | Puntellate/Supported | |
|---|---|---|---|---|---|
| cm | cm²/m | 0,2 % A | Rete elettrosaldata<br>Anti-crack mesh | 0,4 % A | Rete elettrosaldata<br>Anti-crack mesh |
| 10 | 450 | 0,9 | Ø5 (200 X 200) | 1,8 | Ø6 (150 X 150) |
| 11 | 550 | 1,1 | Ø6 (200 X 200) | 2,2 | Ø6 (100 X 100) |
| 12 | 650 | 1,3 | Ø6 (200 X 200) | 2,6 | Ø6 (100 X 100) |

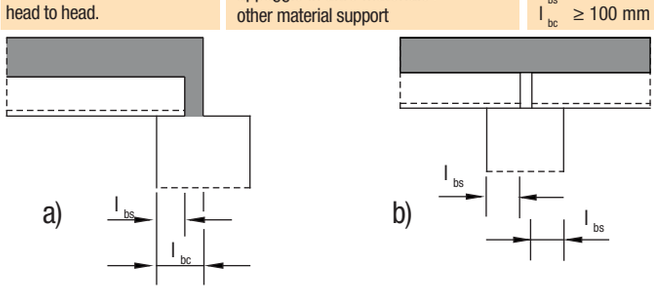
* Lo spessore delle lamiere grecate non deve essere inferiore a 0,80 mm; lo spessore potrà essere ridotto a 0,70 mm quando, in fase costruttiva, vengano studiati idonei provvedimenti atti a consentire il transito in sicurezza di mezzi e persone / The thickness of trapezoidal sheets used for composite floor cannot be less than 0,80 mm; the thickness could be reduced to 0,70mm in case, during installation, suitable actions will be taken in order to allow the safe passage of means and people.

** Sezione trasversale della soletta di calcestruzzo sopra le nervature
Cross-wise section of the composite floor above ribs.

## Sequenze montaggio - Assembly sequence

Posa lamiere e fissaggio con viti alle travi di sostegno
(opzionale rivettatura delle greche di sormonto a passo 1 metro) /
Assembling trapezoidal sheets and fixing with screws to supporting beams
(as options use rivets on the overlapping ribs at one meter step).

| | | |
|---|---|---|
| Le lamiere vanno accostate testa - testa / Trapezoidal sheets will be assembled head to head. | appoggio in acciaio o calcestruzzo / steel or concrete support | $l_{bs} \geq 50$ mm<br>$l_{bc} \geq 75$ mm |
| | appoggio in altro materiale / other material support | $l_{bs} \geq 70$ mm<br>$l_{bc} \geq 100$ mm |




Se necessario puntellare la lamiere per aumentare il numero di appoggi
In order to increase the number of supports, if necessary, put additional supports under the trapezoidal sheets.

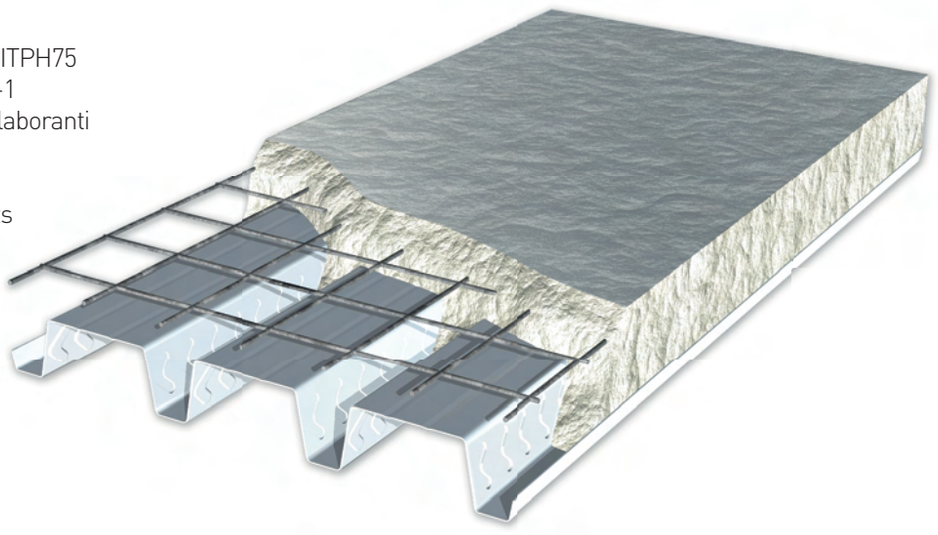
Posa della rete elettrosaldata a 20 mm dall'estradosso
(la rete va sormontata con idonee sovrapposizioni) / Assembling of the anti-crack mesh at 20 mm from top slab.
(the anti-crack mesh is assembled with suitable overlapping )
Getto di calcestruzzo in corrispondenza degli appoggi e successiva distribuzione su tutta la superficie / Concrete casting in correspondence of supports and consequent distribution on the whole surface.

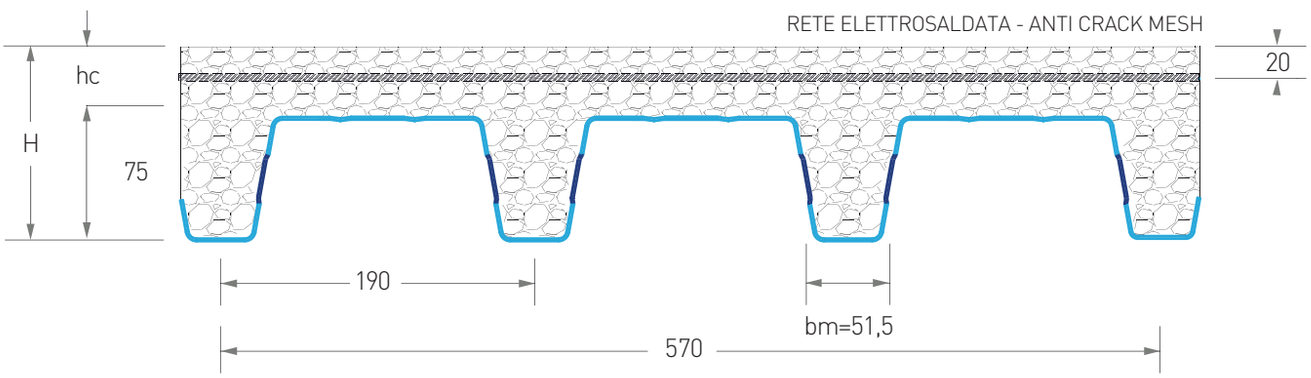
# ITP **H75 - BETON**

570 (passo greche / ribs step 190 mm)

Lamiere grecate collaboranti profilo ITPH75 marcate CE in accordo alla EN 1090-1 Classe EXC3 da utilizzare in solai collaboranti acciaio - calcestruzzo

Collaborating trapezoidal steel sheets ITP H75 Beton profile CE marked according to EN 1090-1 EXC3 class to be used for composite floor steel - concrete.






## Materiali per solai collaboranti / Materials for collaborating floor

| | | |
|---|---|---|
| Lamiera di acciaio<br>Steel sheet | Tipo - Type | S280GD UNI EN 10346 |
| | Spessore - Thickness* | Par. 4.3.6.5.1 NTC/2008 |
| Calcestrutto<br>Concrete | Classe - Class | C25/30 D.M. 14/01/2008 |
| | Spessore - Thickness | $h_c$ ≥ 40 mm |
| Diametro inerte<br>Diameter concrete | ≤ | 0,4 * $h_c$ |
| | | $b_m$/ 3 = 17,16 mm |

Sezione minima rete elettrosaldata di ripartizione
(a 20 mm dall'estradosso della soletta)
Minimun section detailed rebars and anti-crack mesh
(at 20 mm from top slab)

| H | A ** | Non puntellate/Un-supported | | Puntellate/Supported | |
|---|---|---|---|---|---|
| cm | cm²/m | 0,2 % A | Rete elettrosaldata Anti-crack mesh | 0,4 % A | Rete elettrosaldata Anti-crack mesh |
| 12 | 450 | 0,9 | Ø 5 (200 X 200) | 1,8 | Ø 6 (150 X 150) |
| 13 | 550 | 1,1 | Ø 6 (200 X 200) | 2,2 | Ø 6 (100 X 100) |
| 14 | 650 | 1,3 | Ø 6 (200 X 200) | 2,6 | Ø 6 (100 X 100) |
| 15 | 750 | 1,5 | Ø 6 (200 X 200) | 3,0 | Ø 8 (150 X 150) |

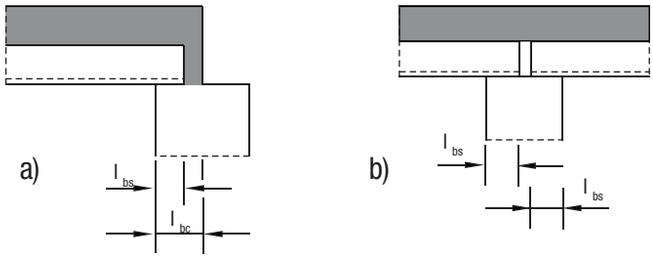
* Lo spessore delle lamiere grecate non deve essere inferiore a 0,80 mm; lo spessore potrà essere ridotto a 0,70 mm quando, in fase costruttiva, vengano studiati idonei provvedimenti atti a consentire il transito in sicurezza di mezzi e persone / The thickness of trapezoidal sheets used for composite floor cannot be less than 0,80 mm; the thickness could be reduced to 0,70mm in case, during installation, suitable actions will be taken in order to allow the safe passage of means and people.

** Sezione trasversale della soletta di calcestruzzo sopra le nervature / Cross-wise section of the composite floor above ribs.

## Sequenze montaggio - Assembly sequence

Posa lamiere e fissaggio con viti alle travi di sostegno
(opzionale rivettatura delle greche di sormonto a passo 1 metro) /
Assembling trapezoidal sheets and fixing with screws to supporting beams
(as options use rivets on the overlapping ribs at one meter step).

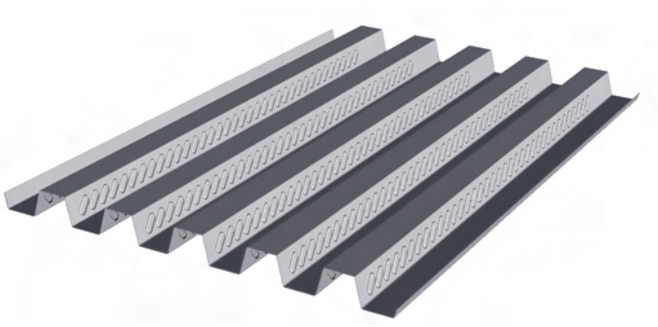
| | | |
|---|---|---|
| Le lamiere vanno accostate testa - testa / Trapezoidal sheets will be assembled head to head. | appoggio in acciaio o calcestruzzo / steel or concrete support | $l_{bs}$ ≥ 50 mm<br>$l_{bc}$ ≥ 75 mm |
| | appoggio in altro materiale / other material support | $l_{bs}$ ≥ 70 mm<br>$l_{bc}$ ≥ 100 mm |




Se necessario puntellare la lamiere per aumentare il numero di appoggi / In order to increase the number of supports, if necessary, put additional supports under the trapezoidal sheets.

Posa della rete elettrosaldata a 20 mm dall'estradosso
(la rete va sormontata con idonee sovrapposizioni) / Assembling of the anti-crack mesh at 20 mm from top slab.
(the anti-crack mesh is assembled with suitable overlapping )

Getto di calcestruzzo in corrispondenza degli appoggi e successiva distribuzione su tutta la superficie / Concrete casting in correspondence of supports and consequent distribution on the whole surface.



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# ITP H55 - BETON
# 600 - 750 - 900

Marcatura CE in accordo EN 1090-1 classe EXC3
CE mark according to EN 1090-1 EXC3 class

**Limite di freccia 20 mm o L = 1 /180 della luce**
**Serviceability limit states 20 mm or L = 1/180 span**

**Acciaio zincato / Galvanized steel**
**S280 GD - UNI EN 10346**

Sezione lorda **ACCIAIO** - STEEL gross section

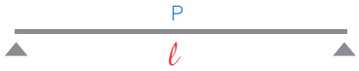
| Spessore nominale Nominal thickness (mm) | | 0,70 | 0,80 | 1,00 | 1,20 | 1,50 |
|---|---|---|---|---|---|---|
| Peso nominale * Weight nominal (Kg./m²) | | 9,2 | 10,5 | 13,1 | 15,7 | 19,6 |
| $J_y$ | (cm⁴/m) | 47,01 | 53,57 | 66,96 | 79,74 | 98,57 |
| $W_{e,inf}$ | (cm³/m) | 17,09 | 19,48 | 24,35 | 28,99 | 35,91 |
| $W_{e,sup}$ | (cm³/m) | 17,09 | 19,48 | 24,35 | 28,99 | 35,91 |
| $W_p$ | (cm³/m) | 19,70 | 22,56 | 28,46 | 34,22 | 43,02 |

* peso calcolato rispetto alla larghezza utile - weight calculated relevant to working width

Tabelle portata **ACCIAIO** - STEEL load tables

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm
Working width support: 50 mm

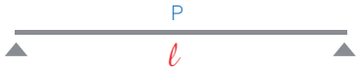



P = Kg./m²

| mm | ℓ = m | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,70 | | 782 | 572 | 432 | 337 | | | | | | | | | | | |
| 0,80 | | 943 | 693 | 528 | 393 | 329 | | | | | | | | | | |
| 1,00 | | 1295 | 960 | 734 | 562 | 440 | 352 | | | | | | | | | |
| 1,20 | | 1298 | 1248 | 917 | 670 | 517 | 414 | 342 | | | | | | | | |
| 1,50 | | 1301 | 1301 | 1161 | 843 | 640 | 508 | 410 | 347 | | | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm
Working width support: 50 mm

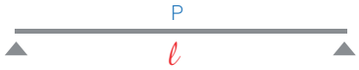



P = Kg./m²

| mm | ℓ = m | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,70 | | 512 | 402 | 322 | | | | | | | | | | | | |
| 0,80 | | 628 | 493 | 398 | 328 | | | | | | | | | | | |
| 1,00 | | 895 | 700 | 565 | 465 | 390 | 330 | | | | | | | | | |
| 1,20 | | 1183 | 928 | 748 | 618 | 518 | 438 | 393 | 338 | | | | | | | |
| 1,50 | | 1301 | 1301 | 1051 | 866 | 726 | 621 | 556 | 481 | 419 | 360 | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm
Working width support: 50 mm



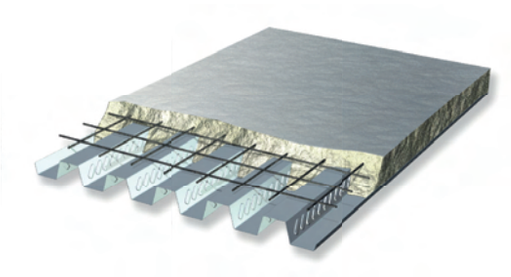

P = Kg./m²

| mm | ℓ = m | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,70 | | 542 | 427 | 347 | | | | | | | | | | | | |
| 0,80 | | 668 | 523 | 423 | 348 | | | | | | | | | | | |
| 1,00 | | 950 | 745 | 605 | 495 | 415 | 355 | 305 | | | | | | | | |
| 1,20 | | 1258 | 988 | 798 | 658 | 553 | 473 | 418 | 360 | | | | | | | |
| 1,50 | | 1301 | 1301 | 1121 | 926 | 776 | 661 | 595 | 514 | 448 | 391 | | | | | |

Carichi variabili uniformemente distribuiti
Variable uniformly distributed loads

Valori in BLU: stati limite ultimo
BLU values: ultimate limit states

Valori in ROSSO: Limite di freccia 20 mm o L = 1 /180 della luce
RED values: serviceability limit states 20 mm or L = 1/180 span



# ITP**H55** BETON
## 600/750 / 900

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**Acciaio zincato / Galvanized steel**
**S280 GD - UNI EN 10346**

**Per lo S.L.S. elemento appoggiato limitazione 1/300 della freccia - For S.L.S. supported element deflection 1/300 span**

- rottura cilindrica / cylinder break $f_{ck}$ = 25 N/mm²
- soletta con calcestruzzo normale / composite floor with normal concrete

Carico permanente / permanent load p = 0,00 KN/m²
(il carico permanente comprende il peso di pavimentazione, sottofondo e impianti fissi)
(the permanent load includes floor weight, subgrade and fixed equipmentes)

## TABELLE PORTATE - LOAD TABLE

Resistenza al taglio longitudinale: metodo di "interazione parziale" / Longitudinal shear resistance: method of partial interaction

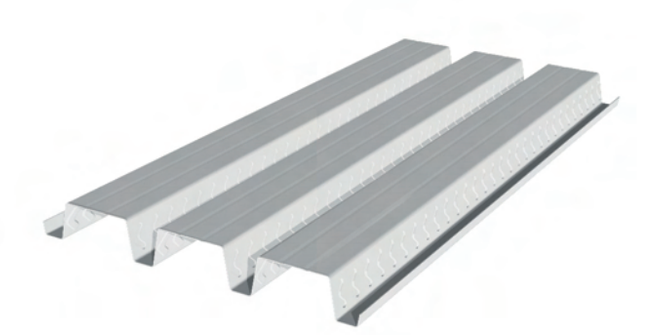
Larghezza efficace appoggio: 50 mm
Working width support: 50 mm


q = carico di esercizio variabile / service variable load

| H Spessore soletta / Thickness composite floor | S Spessore lamiera / Steel thickness | Peso soletta / Weight composite floor | Luce massima in fase di getto / Max span during concrete casting m | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | Kg./m² | 2 app | 3 app | 4 app | ℓ=m | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
| 100 mm | 0,7 | 185,1 | 2,25 | 2,00 | 2,00 | q = Kg./m² | 2105 | 1560 | 1200 | 950 | 765 | 630 | 520 | 435 | 370 | 310 | 265 | 225 | 190 | | | | | | |
| | 0,8 | 186,1 | 2,50 | 2,25 | 2,25 | | 2235 | 1720 | 1320 | 1045 | 845 | 690 | 575 | 480 | 405 | 345 | 295 | 250 | 215 | | | | | | |
| $\tau_{u,Rd}$ 0,091 N/mm² | 1,0 | 188,3 | 2,75 | 2,75 | 3,00 | | 2215 | 1875 | 1570 | 1240 | 1000 | 820 | 680 | 570 | 480 | 410 | 350 | 300 | 260 | | | | | | |
| | 1,2 | 190,4 | 3,00 | 3,25 | 3,25 | | 2200 | 1860 | 1605 | 1405 | 1145 | 940 | 780 | 655 | 555 | 475 | 405 | 350 | 300 | | | | | | |
| | 1,5 | 193,8 | 3,25 | 3,75 | 3,75 | | 2170 | 1835 | 1585 | 1385 | 1230 | 1105 | 930 | 780 | 650 | 565 | 485 | 420 | 360 | | | | | | |
| | mm | Kg./m² | 2 app | 3 app | 4 app | ℓ=m | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
| 110 mm | 0,7 | 209,6 | 2,25 | 2,00 | 2,00 | q = Kg./m² | 2265 | 1685 | 1300 | 1030 | 835 | 685 | 570 | 480 | 405 | 345 | 295 | 250 | 215 | 180 | 155 | | | | |
| | 0,8 | 210,6 | 2,25 | 2,25 | 2,25 | | 2495 | 1850 | 1425 | 1130 | 915 | 750 | 625 | 525 | 445 | 380 | 325 | 275 | 235 | 205 | 175 | | | | |
| $\tau_{u,Rd}$ 0,091 N/mm² | 1,0 | 212,8 | 2,75 | 2,75 | 2,75 | | 2525 | 2135 | 1680 | 1325 | 1075 | 880 | 735 | 620 | 525 | 445 | 380 | 330 | 285 | 245 | 210 | | | | |
| | 1,2 | 214,9 | 2,75 | 3,25 | 3,25 | | 2505 | 2120 | 1830 | 1515 | 1225 | 1005 | 835 | 705 | 595 | 510 | 440 | 375 | 325 | 280 | 245 | | | | |
| | 1,5 | 218,3 | 3,00 | 3,75 | 3,75 | | 2470 | 2090 | 1805 | 1580 | 1405 | 1190 | 990 | 835 | 705 | 605 | 520 | 450 | 390 | 335 | 300 | | | | |
| | mm | Kg./m² | 2 app | 3 app | 4 app | ℓ=m | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
| 120 mm | 0,7 | 234,1 | 2,00 | 1,75 | 1,75 | q = Kg./m² | 2430 | 1810 | 1400 | 1115 | 905 | 745 | 625 | 530 | 445 | 375 | 320 | 275 | 235 | 200 | 170 | 145 | 120 | | |
| | 0,8 | 235,1 | 2,25 | 2,00 | 2,25 | | 2670 | 1980 | 1530 | 1215 | 990 | 810 | 675 | 575 | 485 | 410 | 355 | 300 | 265 | 225 | 190 | 160 | 140 | | |
| $\tau_{u,Rd}$ 0,091 N/mm² | 1,0 | 237,3 | 2,50 | 2,50 | 2,75 | | 2830 | 2320 | 1785 | 1415 | 1145 | 950 | 790 | 665 | 565 | 480 | 415 | 355 | 305 | 265 | 235 | 195 | 165 | | |
| | 1,2 | 239,4 | 2,75 | 3,00 | 3,00 | | 2810 | 2375 | 2035 | 1610 | 1300 | 1070 | 895 | 755 | 640 | 545 | 475 | 410 | 350 | 305 | 265 | 230 | 195 | | |
| | 1,5 | 242,8 | 3,00 | 3,50 | 3,75 | | 2775 | 2345 | 2025 | 1780 | 1520 | 1260 | 1055 | 890 | 755 | 645 | 555 | 480 | 420 | 365 | 320 | 275 | 235 | | |
| | mm | Kg./m² | 2 app | 3 app | 4 app | ℓ=m | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
| 130 mm | 0,7 | 258,6 | 2,00 | 1,75 | 1,75 | q = Kg./m² | 2600 | 1940 | 1505 | 1200 | 975 | 805 | 670 | 565 | 480 | 410 | 350 | 300 | 255 | 220 | 185 | 160 | 135 | 110 | |
| | 0,8 | 259,6 | 2,25 | 2,00 | 2,00 | | 2835 | 2110 | 1635 | 1300 | 1055 | 870 | 730 | 615 | 520 | 445 | 380 | 325 | 280 | 240 | 205 | 170 | 150 | 125 | |
| $\tau_{u,Rd}$ 0,091 N/mm² | 1,0 | 261,8 | 2,50 | 2,50 | 2,50 | | 3000 | 2460 | 1900 | 1505 | 1220 | 1010 | 840 | 710 | 605 | 515 | 445 | 380 | 330 | 285 | 245 | 210 | 180 | 155 | |
| | 1,2 | 263,9 | 2,75 | 3,00 | 3,00 | | 3000 | 2635 | 2130 | 1705 | 1380 | 1135 | 950 | 800 | 680 | 585 | 500 | 435 | 375 | 325 | 280 | 245 | 210 | 180 | |
| | 1,5 | 267,3 | 3,00 | 3,50 | 3,50 | | 3000 | 2600 | 2245 | 1960 | 1600 | 1330 | 1110 | 935 | 795 | 685 | 590 | 510 | 440 | 385 | 335 | 290 | 255 | 220 | |

$\tau_{u,Rd}$ = determinato con Rapporto di Prova N ° 306239: prova di carico su solaio in calcestruzzo secondo il D.M. 14/01/2008 e la norma UNI EN 1994-1-1:2005 e relazione tecnica N° 309245 - Valutazione della resistenza al taglio longitudinale di progetto di solette composte con lamiere grecate / Calculated with test report N° 306239: load test on concrete floor according to D.M. 14/01/2008 and norm UNI EN 1994-1-1:2005 and technical report N° 309245 - valuation of design longitudinal shear of concrete composite floor with trapezoidal steel sheet.

I valori delle tabelle sono stati determinati considerando coefficienti di combinazioni delle azioni variabili come previsto dalle NTC 08 per edifici di categoria D (ambiente ad uso commerciale). Il contenuto delle tabelle è da considerarsi con semplice valore indicativo. E' competenza del progettista calcolare per ogni singolo caso i relativi valori. The table values have been calculated considering combination coefficient of variable actions as expected by NTC 08 for D category building (commercial use building). The table content is to be considered as indicative: it's competence of designer to calculate, for every single case, the relative values.



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# ITP H75 - BETON 570

Marcatura CE in accordo EN 1090-1 classe EXC3
CE mark according to EN 1090-1 EXC3 class

**Acciaio zincato / Galvanized steel**
**S280 GD - UNI EN 10346**

**Limite di freccia 20 mm o L = 1 /180 della luce**
**Serviceability limit states 20 mm or L = 1/180 span**

Sezione lorda **ACCIAIO** - STEEL gross section

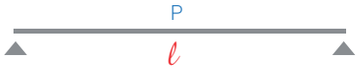
| Spessore nominale Nominal thickness (mm) | | 0,70 | 0,80 | 1,00 | 1,20 | 1,50 |
|---|---|---|---|---|---|---|
| Peso nominale * Weight nominal (Kg./m²) | | 9,6 | 11,0 | 13,8 | 16,5 | 20,7 |
| $J_Y$ | (cm⁴/m) | 81,65 | 92,96 | 116,00 | 137,90 | 173,18 |
| $W_{e,inf}$ | (cm³/m) | 17,35 | 19,76 | 24,65 | 29,31 | 36,82 |
| $W_{e,sup}$ | (cm³/m) | 29,22 | 33,27 | 41,50 | 49,33 | 61,94 |
| $W_p$ | (cm³/m) | 25,50 | 29,18 | 36,80 | 44,22 | 56,49 |

* peso calcolato rispetto alla larghezza utile - weight calculated relevant to working width

Tabelle portata **ACCIAIO** - STEEL load tables

Spessore nominale / Nominal thickness

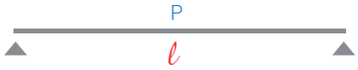
Larghezza efficace appoggio: 50 mm
Working width support: 50 mm




| mm | ℓ = m | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,70 | P = Kg./m² | 998 | 768 | 583 | 458 | 368 | 303 | | | | | | | | | |
| 0,80 | | 1209 | 884 | 674 | 529 | 429 | 349 | 294 | | | | | | | | |
| 1,00 | | 1282 | 1152 | 882 | 692 | 557 | 462 | 377 | 302 | | | | | | | |
| 1,20 | | 1284 | 1284 | 1089 | 859 | 694 | 564 | 479 | 406 | 349 | | | | | | |
| 1,50 | | 1288 | 1288 | 1288 | 1153 | 933 | 768 | 641 | 545 | 457 | 378 | | | | | |

Spessore nominale / Nominal thickness

Larghezza efficace appoggio: 50 mm
Working width support: 50 mm




| mm | ℓ = m | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,70 | P = Kg./m² | 528 | 413 | 338 | | | | | | | | | | | | |
| 0,80 | | 664 | 529 | 434 | 354 | 299 | | | | | | | | | | |
| 1,00 | | 947 | 752 | 627 | 517 | 437 | 372 | | | | | | | | | |
| 1,20 | | 1249 | 989 | 824 | 679 | 569 | 484 | 419 | 364 | 319 | | | | | | |
| 1,50 | | 1288 | 1288 | 1288 | 1156 | 978 | 833 | 723 | 633 | 558 | 493 | 418 | 393 | 356 | 323 | |

Spessore nominale / Nominal thickness

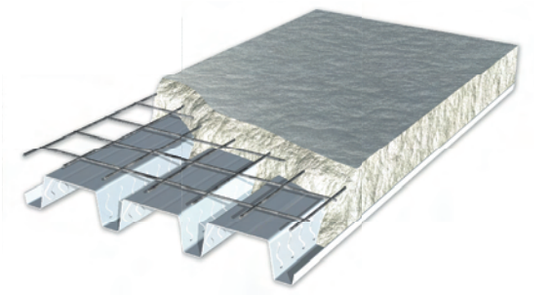
Larghezza efficace appoggio: 50 mm
Working width support: 50 mm


| mm | ℓ = m | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0,70 | P = Kg./m² | 558 | 443 | 363 | 298 | | | | | | | | | | | |
| 0,80 | | 704 | 559 | 459 | 379 | 319 | | | | | | | | | | |
| 1,00 | | 1002 | 797 | 667 | 552 | 462 | 397 | 342 | 297 | | | | | | | |
| 1,20 | | 1284 | 1049 | 874 | 724 | 609 | 619 | 449 | 389 | | | | | | | |
| 1,50 | | 1288 | 1288 | 1288 | 1288 | 1038 | 888 | 768 | 668 | 593 | 516 | 453 | 401 | 353 | | |

Carichi variabili uniformemente distribuiti
Variable uniformly distributed loads

Valori in BLU: stati limite ultimo
BLU values: ultimate limit states

Valori in ROSSO: Limite di freccia 20 mm o L = 1 /180 della luce
RED values: serviceability limit states 20 mm or L = 1/180 span



# ITP**H75** BETON

570 (Passo Greche / Ribs step190 mm)

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## Acciaio zincato / Galvanized steel S280 GD - UNI EN 10346

**Per lo S.L.S. elemento appoggiato limitazione 1/300 della freccia - For S.L.S. supported element deflection 1/300 span**

- rottura cilindrica / cylinder break $f_{ck}$ = 25 N/mm²
- soletta con calcestruzzo normale / composite floor with normal concrete

Carico permanente / permanent load p = 0,00 KN/m²
(il carico permanente comprende il peso di pavimentazione, sottofondo e impianti fissi)
(the permanent load includes floor weight, subgrade and fixed equipmentes)

## TABELLE PORTATE - LOAD TABLE

Resistenza al taglio longitudinale: metodo di "interazione parziale" / Longitudinal shear resistance: method of partial interaction

Larghezza efficace appoggio: 50 mm
Working width support: 50 mm


q = carico di esercizio variabile / service variable load

| H Spessore soletta / Thickness composite floor | S Spessore lamiera / Steel thickness | Peso soletta / Weight composite floor | Luce massima in fase di getto / Max span during concrete casting m | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | Kg./m² | 2 app | 3 app | 4 app | ℓ=m | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
| 120 mm | 0,7 | 171,6 | 2,75 | 2,00 | 2,25 | q = Kg./m² | 1010 | 845 | 720 | 620 | 545 | 480 | 430 | 385 | 345 | 310 | 280 | 240 | 205 | 175 | 145 | | | | |
| | 0,8 | 172,8 | 3,00 | 2,50 | 2,50 | | 1005 | 840 | 715 | 620 | 540 | 475 | 425 | 380 | 340 | 305 | 280 | 255 | 230 | 195 | 165 | | | | |
| $\tau_{u,Rd}$ 0,089 N/mm² | 1,0 | 175,2 | 3,25 | 3,00 | 3,25 | | 990 | 825 | 705 | 605 | 530 | 470 | 415 | 370 | 335 | 300 | 270 | 245 | 225 | 205 | 185 | | | | |
| | 1,2 | 177,6 | 3,50 | 3,50 | 3,75 | | 975 | 815 | 690 | 595 | 520 | 460 | 405 | 365 | 325 | 295 | 265 | 240 | 220 | 200 | 180 | | | | |
| | 1,5 | 181,6 | 3,75 | 4,75 | 4,50 | | 955 | 795 | 675 | 580 | 505 | 445 | 395 | 350 | 315 | 280 | 255 | 230 | 205 | 185 | 170 | | | | |
| | mm | Kg./m² | 2 app | 3 app | 4 app | ℓ=m | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
| 130 mm | 0,7 | 171,6 | 2,75 | 2,00 | 2,25 | q = Kg./m² | 1150 | 960 | 820 | 705 | 620 | 545 | 485 | 435 | 390 | 355 | 310 | 265 | 225 | 195 | 165 | | | | |
| | 0,8 | 172,8 | 3,00 | 2,50 | 2,50 | | 1145 | 955 | 810 | 700 | 615 | 540 | 480 | 430 | 385 | 350 | 315 | 285 | 250 | 215 | 185 | | | | |
| $\tau_{u,Rd}$ 0,089 N/mm² | 1,0 | 175,2 | 3,25 | 3,00 | 3,25 | | 1125 | 940 | 800 | 690 | 605 | 530 | 470 | 420 | 380 | 340 | 310 | 280 | 255 | 230 | 210 | | | | |
| | 1,2 | 177,6 | 3,50 | 3,50 | 3,75 | | 1110 | 925 | 785 | 680 | 595 | 520 | 465 | 415 | 370 | 335 | 300 | 275 | 250 | 225 | 205 | | | | |
| | 1,5 | 181,6 | 3,75 | 4,75 | 4,50 | | 1085 | 905 | 765 | 680 | 575 | 505 | 450 | 400 | 355 | 320 | 290 | 260 | 235 | 215 | 195 | | | | |
| | mm | Kg./m² | 2 app | 3 app | 4 app | ℓ=m | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
| 140 mm | 0,7 | 171,6 | 2,75 | 2,00 | 2,25 | q = Kg./m² | 1290 | 1075 | 915 | 790 | 695 | 610 | 545 | 485 | 435 | 395 | 340 | 290 | 245 | 210 | 180 | 155 | | | |
| | 0,8 | 172,8 | 3,00 | 2,50 | 2,55 | | 1280 | 1070 | 910 | 785 | 685 | 605 | 540 | 480 | 435 | 390 | 355 | 320 | 275 | 235 | 200 | 170 | | | |
| $\tau_{u,Rd}$ 0,089 N/mm² | 1,0 | 175,2 | 3,25 | 3,00 | 3,25 | | 1265 | 1055 | 895 | 775 | 675 | 595 | 530 | 475 | 425 | 385 | 345 | 315 | 285 | 260 | 235 | 210 | 180 | | |
| | 1,2 | 177,6 | 3,50 | 3,50 | 3,75 | | 1245 | 1040 | 885 | 760 | 665 | 585 | 520 | 465 | 415 | 375 | 340 | 305 | 280 | 250 | 230 | 210 | 190 | | |
| | 1,5 | 181,6 | 3,75 | 4,75 | 4,50 | | 1220 | 1015 | 860 | 740 | 645 | 570 | 505 | 450 | 400 | 360 | 325 | 295 | 265 | 240 | 220 | 200 | 180 | | |
| | mm | Kg./m² | 2 app | 3 app | 4 app | ℓ=m | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 2,75 | 3,00 | 3,25 | 3,50 | 3,75 | 4,00 | 4,25 | 4,50 | 4,75 | 5,00 | 5,25 | 5,50 | 5,75 | 6,00 |
| 150 mm | 0,7 | 171,6 | 2,75 | 2,00 | 2,25 | q = Kg./m² | 1425 | 1190 | 1015 | 875 | 765 | 675 | 600 | 540 | 485 | 430 | 365 | 315 | 270 | 230 | 195 | 165 | | | |
| | 0,8 | 172,8 | 3,00 | 2,50 | 2,55 | | 1420 | 1185 | 1005 | 870 | 760 | 670 | 595 | 535 | 480 | 435 | 390 | 345 | 295 | 255 | 220 | 185 | 160 | | |
| $\tau_{u,Rd}$ 0,089 N/mm² | 1,0 | 175,2 | 3,25 | 3,00 | 3,25 | | 1400 | 1165 | 990 | 855 | 750 | 660 | 585 | 525 | 470 | 425 | 385 | 345 | 315 | 285 | 260 | 225 | 195 | | |
| | 1,2 | 177,6 | 3,50 | 3,50 | 3,75 | | 1380 | 1150 | 980 | 845 | 735 | 650 | 575 | 515 | 460 | 415 | 375 | 340 | 310 | 280 | 255 | 230 | 210 | | |
| | 1,5 | 181,6 | 3,75 | 4,75 | 4,50 | | 1350 | 1125 | 955 | 820 | 715 | 630 | 560 | 500 | 445 | 400 | 360 | 325 | 300 | 270 | 250 | 220 | 200 | | |

$\tau_{u,Rd}$ = determinato con Rapporto di Prova N° 312267: prova di carico su solaio in calcestruzzo secondo il D.M. 14/01/2008 e la norma UNI EN 1994-1-1:2005 e relazione tecnica N° 312267 - Valutazione della resistenza al taglio longitudinale di progetto di solette composte con lamiere grecate / Calculated with test report N° 312267: load test on concrete floor according to D.M. 14/01/2008 and norm UNI EN 1994-1-1:2005 and technical report N° 312267 - valuation of design longitudinal shear of concrete composite floor with trapezoidal steel sheet.

I valori delle tabelle sono stati determinati considerando coefficienti di combinazioni delle azioni variabili come previsto dalle NTC 08 per edifici di categoria D (ambiente ad uso commerciale). Il contenuto delle tabelle è da considerarsi con semplice valore indicativo. E' competenza del progettista calcolare per ogni singolo caso i relativi valori. / The table values have been calculated considering combination coefficient of variable actions as expected by NTC 08 for D category building (commercial use building). The table content is to be considered as indicative: it's competence of designer to calculate, for every single case, the relative values.

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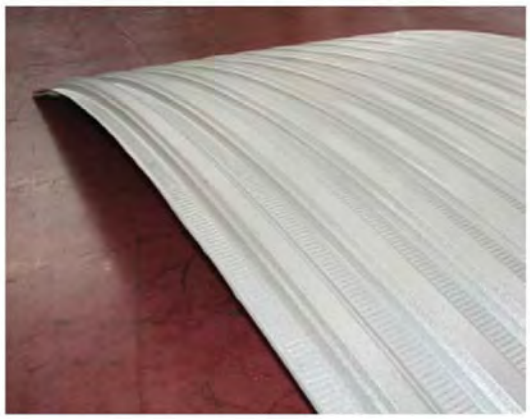
# LAVORAZIONI SHAPING

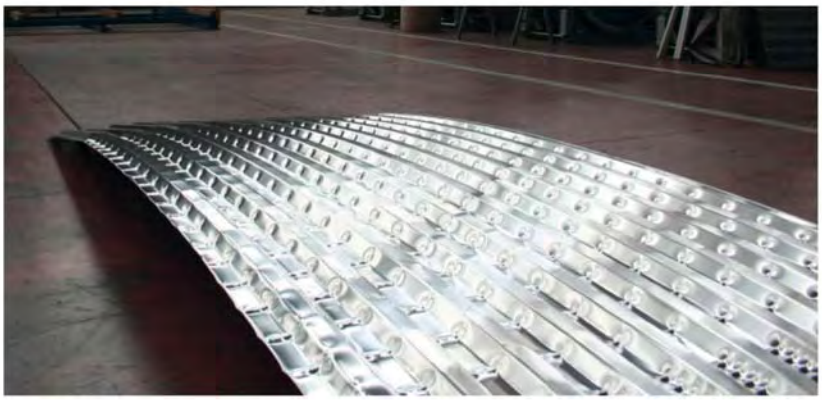
## CALANDRATURA - ITP H28 / ITP H40

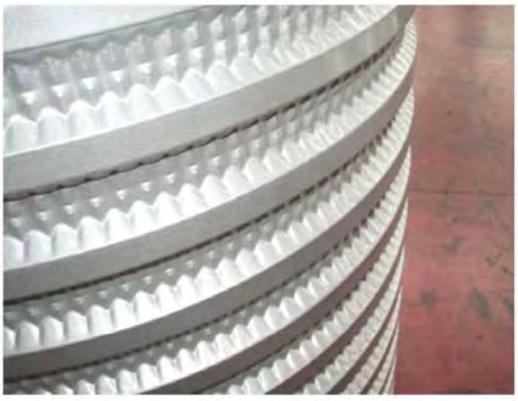
## CALENDERING - ITP H28 / ITP H40



Lamiera curva per calandratura a raggio costante per la realizzazione di coperture curve
Curved corrugated sheet by calendering with constant radius for the realization of curved roofs

## TACCHETTATURA / NOTCHING
## ITP H20 / ITP H28 / ITP H40 / ITP MONO 28



Lamiera curva per tacchettatura per la realizzazione di shed, raccordi e profili adatti per tutte le applicazioni
Curved corrugated sheet by notching for the realization of shed, connections and profiles suitable for all applications

# LAVORAZIONI SHAPING

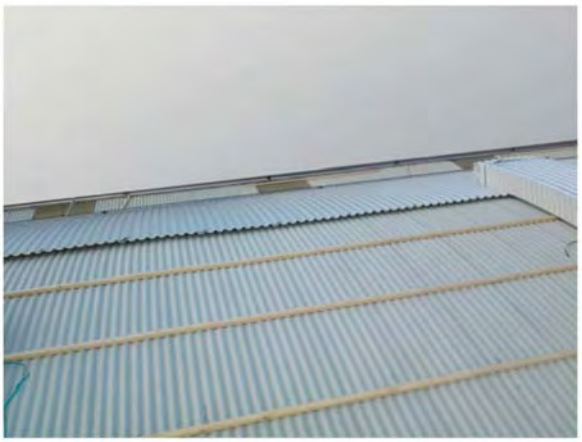
## DEFORMAZIONE CONTROLLATA ITPH20 / ITP H28

## STRAIN CONTROLLED ITPH20 / ITP H28

Lamiera piegata a deformazione controllata con angolo 90 °- 120 ° per la realizzazione di pezzi speciali per shed, colmi.
Bended corrugated sheet having controlled strain with 90° - 120 ° angle for the realization of special pieces for shed, ridges.

## REALIZZAZIONE DI COPERTURA CURVA MEDIANTE TACCHETTATURA DI ITP MONO 28

## CONSTRUCTION OF CURVED ROOF BY NOTCHING OF ITP MONO28



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# ACCESSORI
# ACCESSORIES

## COLMI/RIDGES

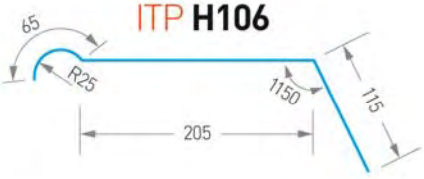
### ITP H20


### ITP H28


### ITP H38

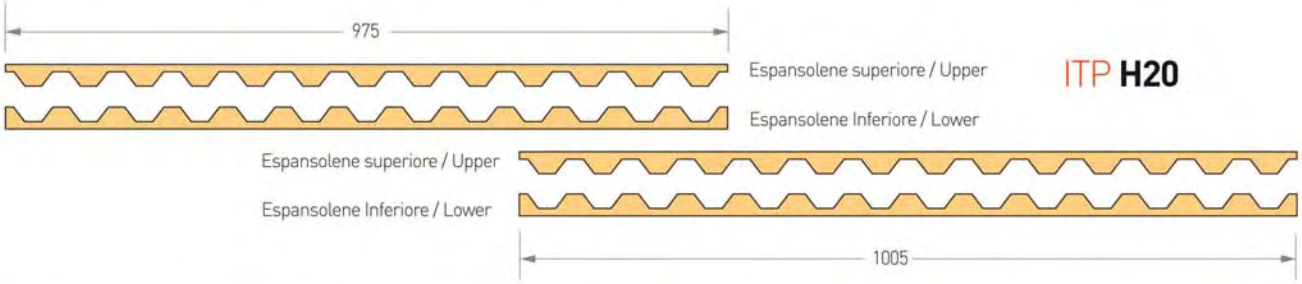

### ITP H40


### ITP H106

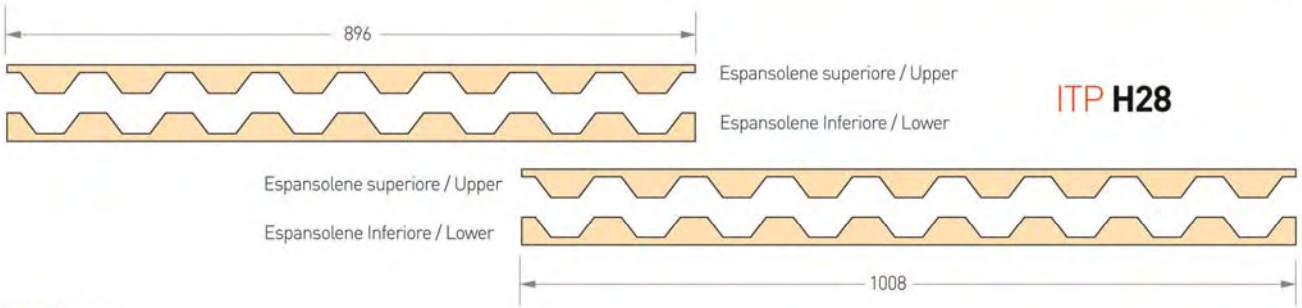



## ESPANSOLENE / FILLER GASKET

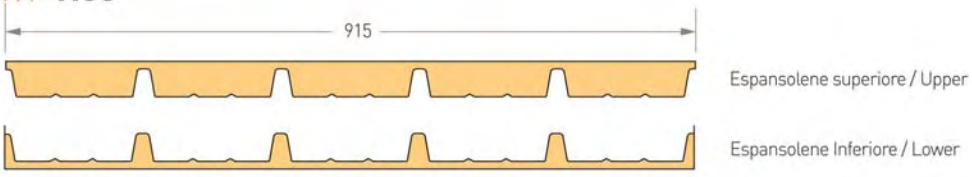
### ITP H20



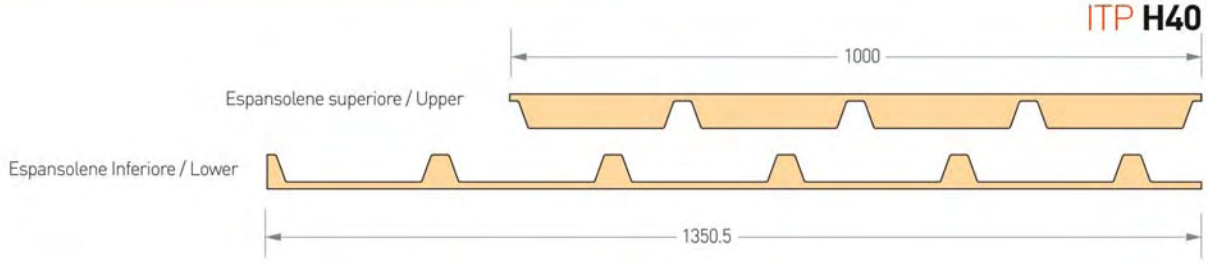

### ITP H28



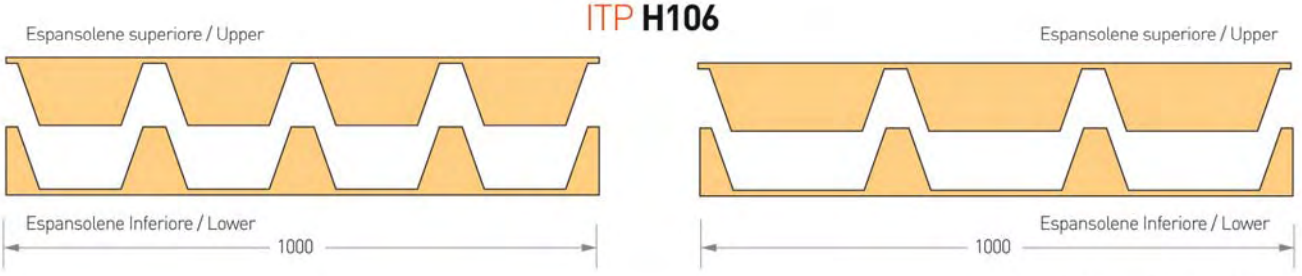

### ITP H38




### ITP H40




### ITP H106



# Caratteristiche dei materiali
# Materials characteristics

*Condizioni generali di vendita AIPPEG 2013 delle lamiere grecate, dei pannelli metallici coibentati e degli accessori:*

Allegato A: Norme sulla movimentazione, manipolazione e stoccaggio
Allegato B: Standard qualitativi
Allegato C: Raccomandazioni per il montaggio
Allegato D: Istruzioni per l'ispezione e la manutenzione

*Comportamento al fuoco:*
Classe di Reazione al Fuoco Standard: A1 in accordo alla norma UNI EN 13501-1

*Supporti:*
*Acciaio zincato:* sistema SENDZIMIR, conforme alle norme UNI EN 10346 e UNI EN 10143.
A richiesta possono essere forniti supporti in acciaio con differenti grammature di zinco.

Il prodotto zincato, non preverniciato, è soggetto all'insorgere a fenomeni precoci di ossidazione.

*Acciaio preverniciato:*
- Sistema Base - Poliestere Standard
- Sistema Super - Poliestere Siliconato
- Sistema PVDF - Polivinildenfluoruro
- Sistema HDX - Poliuretanica + Poliammide
- Sistema Plastisol 200 µ - PVC
- Sistema Farm - Ambienti Interni Aggressivi
- Plastificato Alimentare - Solo Uso Interno

A richiesta possono essere fornite protezioni superficiali con particolari caratteristiche di resistenza e/o idonee al contatto con gli alimenti in accordo al D.M. del 21/03/73 ed alle direttive 82/711/CEE, 85/572/CEE, 90/128/CEE, 92/39/CEE.

*Acciaio naturale tipo Aluzinc:*
Lega Protettiva: Al 55 % - Zn 43,4 % - Si 1,6 %

*Acciaio naturale tipo Magnelis:*
Lega Protettiva: Zn 93,5 % - Al 3,5 % - Mg 3,0 %

*Alluminio in lega:*
Conforme alle norme EN 485-2 e EN 1396 naturale o preverniciato secondo i sistemi precedentemente descritti.

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*2013 AIPPEG general selling conditions for corrugated sheets, insulated panels and accessories:*

*Enclosures A:* Rules concerning moving, handling, and stocking
*Enclosures B:* Quality standards
*Enclosures C:* Advices concerning the assembling
*Enclosures D:* Instructions for inspections and maintenance

*Fire reaction :*
Standard fire reaction class: A1 according to the norm UNI EN 13501-1

*Supports:*
*Galvanized steel:* SENDZIMIR system, in accordance with UNI EN 10346 and UNI EN 10143.
Upon demand we can supply you supports having different zinc coatings.

The galvanized product, not prepainted, is subject to early phenomena of oxidation.

*Prepainted steel:*
- Base System - Standard Polyester
- Super System - Polyester base Silicon
- PVDF System - Polyvinyldenedifluoride
- HDX System - Polyurethane paint + Polyamide
- Plastisol 200 µ - PVC
- Farm System - Internal aggressive environment
- Pvc Coated for alimentary use - Only Internal Use

On request surface protections can be supplied with particular characteristics of resistance and/or suitable for contact with food products in accordance with the Law of 21/03/73 and EU directives 82/711/EEC, 85/572/EEC, 90/128/EEC and 92/39EEC.

*Natural steel type Aluzinc:*
Protective alloy: Al 55 % - Zn 43,4 % - Si 1,6 %

*Natural steel type Magnelis:*
Protective alloy: Zn 93,5 % - Al 3,5 % - Mg 3,0 %

*Aluminum alloy :*
According to EN 485-2 and EN 1396 Standards, smooth or embossed, natural or prepainted according to the previously described system.

---

*Allgemeine Verkaufsbedingungen AIPPEG 2013 für Trapezbleche, Isolierpaneele und Zubehör:*

*Anhang A:* Regeln für Handhabung, Bewegung und Lagerung
*Anhang B:* Qualitätsstandards
*Anhang C:* Montageempfehlungen
*Anhand D:* Anleitungen für Inspektion und Instandhaltung

*Verhalten dem Feuer gegenüber:*
Standard Brandklasse-Reaktionsklasse: A1 in Übereinstimmung mit der Norm UNI EN 13501-1.

*Trägermaterial:*
*Verzinktes Blech:* System SENDZIMIR, gemäß Normen UNI EN 10346 und UNI EN 10143.
Auf Anfrage können Sandwichpaneele mit Stahlträger mit unterschiedlichen Zink Verkleidungen geliefert werden.

Das nicht vorlackierte verzinkte Produkt, untersteht dem Aufträten von vorzeitigen Oxydation Phänomene.

*Vorlackiertes Stahl:*
- Basis-System - Standard Polyester
- Super System - Silikon Polyester
- PVDF System - Polivinildenfluoruro
- HDX System - Polyurethan + Polyamid
- Plastisol 200 µ - PVC
- Farm System - Aggressive Innenräume
- Nahrungsmittel kunstoffbeschichtet - Nur für Innenraum-Anwendungen

Auf Wunsch können Schutzanstriche mit besonderen Eigenschaften in Bezug auf Festigkeit und/oder lebensmittelgeeignet gemäß Min. VO vom 21.03.73 und den weiteren EU-Richtlinien 82/711/CEE, 85/572/CEE, 90/128/CEE, 92/39/CEE geliefert werden.

*Natural Stahl wie Aluzinc:*
Schutzlegierung: Al 55 % - Zn 43,4 % - Si 1,6 %

*Natural Stahl wie Magnelis:*
Schutzlegierung: Zn 93,5 % - Al 3,5 % - Mg: 3,0 %

*Aluminiumlegierung:*
Gemäß EN 485-2 und EN 1396, glatt oder gaufriert, Natur oder vorlackiert nach den vorstehend beschriebenen Systemen.

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*Conditions Générales de Vente AIPPEG 2013 des tôles nervurées, des panneaux sandwich isolantes et des accessoires:*

Annexe A: Normes pour la mouvementassions, la manipulation et le stockage
Annexe B : Standards qualitatives
Annexe C: Prescriptions techniques pour l'assemblage
Annexe D: Prescriptions pour l'inspections et la maintenance

*Comportement au feu:*
Classe de Réaction au Feu Standard: A1 selon la norme UNI EN 13501-1.

*Supports:*
*Acier galvanisé:* système SENDZIMIR, conforme aux normes UNI EN 10346 et UNI EN 10143.
Sur demande on peut produire panneaux sandwich en acier avec différent poids de zinc.

Le produit galvanisé, pas prelaqué, est sujet à tôt phénomène d'oxydation.

**Acier Prelaqué:**

- Système Base: Standard Polyester
- Système Super: Polyester Siliconât
- Système PVDF: Polivinildenfluorure
- Système HDX: Polyuréthane et Polyamide
- Plastisol 200 µm - PVC
- Système Farm - Pour les environnements intérieures agressives
- Plastifié pour l'industrie alimentaire - seulement à usage interne

Sur demande nous pouvons fournir des protections superficiels avec des caractéristiques particulières de résistance et/ou adaptées au contact avec les aliments conformément au D.M. du 21/03/73 et aux directives 82/711/CEE, 85/572/CEE, 90/128/CEE, 92/39/CEE.

*Acier Naturel type Aluzinc:*
Alliage Protective: Al 55 % - Zn 43,4 % - Si 1,6 %

*Acier Naturel type Magnelis:*
Alliage Protective: Zn 93,5 % - Al 3,5 % - Mg 3,0 %

*Alliage d'aluminium:*
Conforme aux normes EN 485-2 et EN 1396, lisse ou gaufré, naturel ou prélaqué avec les systèmes décrits plus haut.


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