EASY NPS®

User Manual



Tecnostrutture s.r.l. March2020

INSTALLATION IN 3 STEPS

1) Visit www.tecnostrutture.eu/eng and select the Predesign Software from the "Design tools" section.

2) Log in for free to download the Easy NPS® software.Enter your credentials. Not register yet? Sign in.

3) Download the Easy NPS® software for free.

USE FROM DATA INPUT TO RESULT

ENTERING THE INPUT DATA

ENTER THE DIMENSION OF THE BEAMS

Select the number of spans and any cantilevers on the right or left.

Enter the length of the beam and the concrete class to be used for the top-casting.

	_												
pan Span	Restraints	Beams load	s Slab	Slab loads	Solution	Report							
Title:	EasyNPS	Model				No.spans:	1	×	Left cantilever Right cantilever	Preview Beam	1		
	Index L	ength Materi	al										ון
R1	1	5.00 C30/3	7										
											M		
										'		-	
				(1)					(2)				
						NF	PS® 1						
					$\sim \sim$	$\sim \sim \sim$	$\sim \sim \sim$	$\sim \sim$					
									1				
0													_

ENTER THE TYPE OF SUPPORTS

Select the type of supports (Restrains) from the options: Rectangular, circular, or cantilever.

Enter the size in meters (m) for each support.

It is possible to assign an offset to the right or left of the axis of the support (column or wall).

an	Restraint	s Beams loa	ads Slab	Slab loads	Solution	Report
Restra	aints					
	Index	Section	Side 1 (m)	Side 2 (m)	Offset (m)	
R1	1	Rectangular	0.40	0.40	0.00	
R2	2	Rectangular	0.40	0.40	0.00	
				(1)	}	(2)
				1)	2
				1	}	2 NPS@ 1
						2 NPS® 1
						2 NPS@ 1
						2 NPS® 1
						2 NPS® 1
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						2 NPS@ 1

ENTER THE LOADS ON THE BEAMS

Select the loads acting on the beams, choosing between distributed loads, trapezoidal, point force or point moment. Then click on "Assign" and on the span of the drawing to assign the value.

By leaving the "Add Dead Load" box selected, the program automatically calculates the weight of the beam.



ENTER THE TYPE OF SLABS

Select the type of slab from the options in the drop-down menu:

- • Slab made of brick
- • Slab
- • Filigree slab
- • Hollow core slab
- • Airpop
- • Profiled steel decking

Enter the thickness and the area of influence of the floor (Half-Len), expressed in meters (m).

Select "Activate" to insert the props for floors that require to be supported and "Temp. propping" to specify the distance in meters (m).

🖁 Ea	syNF	PS 4/7 -	Slab										-		×
Span Sla	h F	Restraint	s Be	eams loads	Slab	Slab loads	Solution	Repo	rt						
		Index	Left	Туре	2	Thickness (m)	Half-Len	. (m) /	Activate	Temp. propping	Right	Туре	Thickness (m)	Half-Len. (m)
	R1	1	\boxtimes	Slab made	of brick	0.25	4.00			1.50	\boxtimes	Slab made of brick	0.25	4.00	
<														>	
									Dx Sx						
0	pen		Save		New							< Prev Next >	> End	Close	2

ENTER LOADS ON THE SLAB

Enter the values of the loads acting on the slab, distinguishing between those of the 1st phase (construction phase until the concrete casting has not reached the design strength) and of the 2nd phase (final phase, when steel and concrete work together). Specify Death Loads and Live Loads.

an F	Destroints									
lah laa	restraints	Beams loa	ids Slab	Slab loads	Solution	Report				
ab ioa	ds									_
	Beam	Slab	Phase 1	Phase 2 (D.L.)	Phase 2 (l	.L.)				
			kN/m ²	kN/m²	kN/m²					
R1	Beam 1	Left slab	0.00	0.00	0.00					
R2		Right slab	0.00	0.00	0.00					
							_			ī
						Dx				
							1			
						Sx				

CALCULATE THE SECTION

TWO WAYS

It is possible to choose whether to calculate the section manually (by changing the parameters suggested by the program) or directly by obtaining the section with optimal height.

If you choose to proceed with the calculation of the beam with optimal height, select the "Design only optimal height" option, click on "Design Beams" and go to the "DIAGRAM AND EXPORT" section.



To calculate the section manually, follow the next steps.

CALCULATE EACH PROPOSED SECTION

Click "Design beams" to calculate the minimum and optimal sections of NPS[®] Basic and NPS[®] CLS beams proposed by EASY NPS[®]. This calculation can take several minutes.

Select the type of section proposed with the "Set" button.

🎖 Easyl	NPS 6/7 - S	olution				- D ×
Span	Restraints	Beams loads	Slab	Slab loads	Solution	Report
Analy	sis					•
Title:	EasyNPS	Model				
	Design cu Paramete Mom Sheat Defo Design height	n beams urrent height ers ent Phase 1 ent Phase 2 ur Phase 2 ur Phase 2 ur Phase 2 ur only Optimal	Data Ty Sla	pe Basic B 55 H 30 b t 4 V Collab	✓ ✓ ✓	Design proposal Basic (Min height) B = 30 H = 30 Set Basic (Optimal height) B = 55 H = 30 Set CLS (Min height) B = 50 H = 25 Set CLS (Optimal height) B = 55 H = 40 Set Set
).03 KNI 2a14- 2ø14-1	m 175 80		2 NPS® 1 B55xH30 204.90 KNm 2014-175 2014-160
Oper	n Sa	ave	New			< Prev Next > End Close

MODIFY THE PARAMETERS

To manually change the parameters of the proposed sections, fill in the boxes inside the "Data" box.

If, on the other hand, the "Design proposal" section meets the requirements, go to the "Parameters" verification diagram.



VERIFY THE MODIFIED SECTION

Click "Design current height" to check the section of the span with the modified parameters of the "Data" box.



SELECT THE VERIFICATION DIAGRAM

Select the type of diagram you want to check for the predimensioning of the span:

- Moment Phase 1 (construction phase)
- Shear Phase 1 (construction phase)
- Moment Phase 2 (final phase)
- Shear Phase 2 (final phase)
- Deformability



DIAGRAM AND EXPORT

It is possible to view the type of diagram selected and export:

- the section in .dxf format
- The .ifc model to be displayed in BIM.

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Analy	sis	Deama loada	Jidb			nepor
Title:	EasyNPS	Model				
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	○ Holin ○ Shea ○ Defo ☑ Design height	rr Phase2 rmability only Optimal		Collab	Width	B = 20 H = 35 Set
					~~~	2 NPS@ 1 B20xH35
			-0.0	2 kNm 14-195		201.09 kNm 201.09 kNm 201.09 kNm 201.09 kNm 201.09 kNm 201.09 kNm

#### **VIEW THE REPORT**

It is possible to generate a predesign report with the section evaluation. Among the data shown there is the equivalent elastic modulus. The file is exportable in .rtf format.

Term       Exid         Preliminary design and assessment         Bending and shear stresses Fase 1         Image: Stress of the	Report				
Preliminary design and assessment Bending and shear stresses Fase 1	Title: EasyNPS Model		Build		
Preliminary design and assessment Bending and shear stresses Fase 1	<b>Tecnostruttu</b> <b>NPS</b> SYS	IFC® Tem			
Bending and shear stresses Fase 1	Preliminary design a	nd assessment			
1       NSSB 1         1       215 83 Nm         215 83 Nm       215 83 Nm         216 83 Nm       215 83 Nm         200       NPSB 1         1       2         NPSB 1       2         0pe       See         New       Prove         NPSB 1       2         0pe       See         New       Prove         NPSB 1       2         0pe       See         New       Prove	Bending and shear stresses I	Fase 1			
Image: State Stat			2	)	
215.83 Mm         Action in Fase 1         1       2         NPSB 1         Copen       Save         NPSB 1         Copen       Save         NPSB 1         Part And	-0(i	33 kNm	5.14-14		
Action in Fase 1         1         PS® 1         Copen         Save         New         Copen         Save         Input Data         Basic         Length       :7.00 m         Med [left] (moment)       :12.37 kNm         Vad [left] (shear)       :319.86 kN         Med [nididle]	1	215.0	33 kNm	]	
1       2         NPS0 1       2         Deen Save       New         Copen Save       New         EasyNPS 7/7 - Report - [file per manuale_rev00.easynps]       -         pan Restraints Beams loads Stab       Stab loads Solution         Report       Report         Report       Build         Input Data         Beas         Basic         EasyNPS 70 mm         Med [left] (moment)       : 12.37 kNm         Yet [left] (shear)       : 319.86 kN         Med [right]       : 12.37 kNm         Yet [left] (type of slab)       : Bausta         TS [right] (type of slab)       : Bausta         SS [right] Slab thickness       : 25 cm         TS [right] (type of slab)       : Bausta         SS [right] Slab thickness       : 25 cm         TS [right] (type of slab)       : Bausta         SS [right] Slab thickness       : 25 cm         TS [right] (type of slab)       : Bausta         SS [right] Slab thickness       : 25 cm         H (Beam height)       : 4 cm       Bs (Additional casting width)       : 160 cm         Mp/Rd+       : 679.44 kNm       Mp/Rd-       : 272.01 kNm         V,Rd		Action i	n Fase 1	1	
1       PS0 1         Open       Save         New       < Prev				_	
Image       Next       Problem         Open       Save       Next        Prev       Next.>       End       Close         EasyNP5 7/7 - Report - [file per manuale_rev00.easynps]	(1	)	(2	)	
Open       Save       New       < Prev       Next >       End       Close         EasyNPS 7/7 - Report - [file per manuale_rex00.easynps]		NP	58 1		
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Input Data Seam no. 1 Concrete (concrete strength ¢lass) : C30/37 Product type : NPS® Basic Length : 7.00 m Modulus of elasticity eq.(*) : 89689 MPa Med [left] (moment) : 12.37 kNm Material : S355 Ved [middle] : 580.94 kNm Ved [left] (shear) : 319.86 kN Ved [right] : 12.37 kNm Ved [left] (shear) : 319.86 kN TS [left] (type of slab) : Bausta SS [left] Slab thickness : 25 cm TS [right] (type of slab) : Bausta SS [right] Slab thickness : 25 cm I (Beam height) : 40 cm B (beam basis) : 60 cm I (Beam height) : 4 cm Bs (Additional casting width) : 160 cm Vpl.Rd+ : 679.44 kNm Mpl.Rd- : -272.01 kNm V,Rd : 339.18 kN MRd,Phase1 : 241.91 cm	Open Save N EasyNPS 7/7 - Report - [file per i	iew	<u> </u>	v Next > End	Close
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TS [right] (type of slab)       : Bausta       SS [right] Slab thickness       : 25 cm         H (Beam height)       : 40 cm       B (beam basis)       : 60 cm         Hs (Additional casting height)       : 4 cm       Bs (Additional casting width)       : 160 cm         Mpl,Rd+       : 679.44 kNm       Mpl,Rd-       : -272.01 kNm         V,Rd       : 339.18 kN       MRd,Phase1       : 241.91 cm	Open Save N EasyNPS 7/7 - Report - [file per pan Restraints Beams loads S Report Title: EasyNPS Model Input Data Beam no. 1 Concrete (concrete strength Basic Length Med [left] (moment) Med [nght]	In the second se	A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A	v Next > End 	
H (Beam height)     : 40 cm     B (beam basis)     : 60 cm       Hs (Additional casting height)     : 4 cm     Bs (Additional casting width)     : 160 cm       Mpl,Rd+     : 679.44 kNm     Mpl,Rd-     : 272.01 kNm       V,Rd     : 339.18 kN     MRd,Phase1     : 241.91 cm	Open Save N EasyNPS 7/7 - Report - [file per pan Restraints Beams loads S Report Title: EasyNPS Model Input Data Baam no. 1 Concrete (concrete strength Basic Length Med [left] (moment) Med [middle] Med [right] TS [left] (type of slab)	tass)  17.00 m  12.37 kNm  12.37 kNm  12.37 kNm  12.37 kNm  15.80.94 kNm  12.37 kNm  15.80.94 kNm  1	A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A	v Next > End 	
Hs (Additional casting height) : 4 cm         Bs (Additional casting width)         : 160 cm           Mpl,Rd+         : 679.44 kNm         Mpl,Rd-         : -272.01 kNm           V,Rd         : 339.18 kN         MRd,Phase1         : 241.91 cm	Open         Save           N         EasyNPS 7/7 - Report - [file per           pan         Restraints         Beams loads         S           Report         Title:         EasyNPS Model         S           Input Data         Seam no. 1         S         S           Concrete (concrete strength: Basic         Basic         S         S           Length         Med [left] (moment)         Med [right]         TS [left] (type of slab)         TS [left] (type of slab)	tiass)  i. 7.00 m  i. 12.37 kNm  i. 2.37 kNm  i. Bausta  Bausta  Bausta  Kara A A A A A A	A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A	v Next > End	
Mpl.Rd+         : 679.44 kNm         Mpl.Rd-         : 272.01 kNm           V,Rd         : 339.18 kN         MRd,Phase1         : 241.91 cm	Open Save N EasyNPS 7/7 - Report - [file per pan Restraints Beams loads S Report Title: EasyNPS Model Input Data Beam no. 1 Concrete (concrete strength Basic Length Med [left] (moment) Med [right] TS [left] (type of slab) TS [right] (type of slab) H (Beam height)	tiew manuale_rev00.easynps] ilab Slab loada Solution Re tlass) :7.00 m :12.37 kNm :580.94 kNm :12.37 kNm :Bausta :Bausta :40 cm	A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A	v Next > End	
V,Rd : 339.18 kN MRd,Phase1 : 241.91 cm	Open       Save         Pan       Resort - [file per         pan       Restraints       Beams loads       S         Report       Title:       EasyNPS Model       Input Data         Input Data       Geam no. 1       Concrete (concrete strength Basic       Input Data         Beam no. 1       Med [left] (moment)       Med [right]       TS [left] (type of slab)         TS [left] (type of slab)       TS [left] (type of slab)       H (Beam height)         He (Additional casting height)       Hs (Additional casting height)	tiew manuale_rev00.easynps] ilab Slab loads Solution Re tlass) :7.00 m :12.37 kNm :580.94 kNm :12.37 kNm :Bausta :Bausta :40 cm :4 cm	A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A	v Next > End Product type : NPS® : 89689 MPa : S355 : 319.86 kN : 319.86 kN : 25 cm : 25 cm : 25 cm : 60 cm : 160 cm	
	Open       Save         Pan       Resort - [file per         pan       Restraints       Beams loads       S         Report       Title:       EasyNPS Model       Input Data         Input Data       Searn no. 1       Concrete (concrete strength       Input Data         Basic       Length       Med [left] (moment)       Med [right]         TS [left] (type of slab)       TS [left] (type of slab)       H (Beam height)         He (Additional casting height)       Med (Additional casting height)	Lass) Trong manuale_rev00.easynps] Hab Slab loads Solution Re Lass) Trong m Tr	A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A	v Next > End Product type : NPS® : 89689 MPa : S355 : 319.86 kN : 25 cm : 25 cm : 25 cm : 25 cm : 60 cm : 160 cm : -272.01 kNm	
	Open     Save       Pan     Save       EasyNPS 7/7 - Report - [file per       pan     Report       Title:     EasyNPS Model       Input Data       Beam no. 1       Concrete (concrete strength       Basic       Length       Med [left] (moment)       Med [right]       TS [left] (type of slab)       TS [left] (type of slab)       H (Beam height)       He (Additional casting height)       Mpl,Rd+       V,Rd	tiew  manuale_rev00.easynps]  ab Slab loads Solution Re  tass)  7.00 m  12.37 kNm  12.37 kNm  280.94 kNm  12.37 kNm  280.94 kNm  24 cm  24 cm  257.94 kNm  2339.18 kN	A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A	v Next > End Product type : NPS® : 89689 MPa : S355 : 319.86 kN : 25 cm : 25 cm : 25 cm : 26 cm : 160 cm : -272.01 kNm : 241.91 cm	

Do you have any questions? Write to <u>tech@tecnostrutture.eu</u>