



### Preamble

With the new SPAX Design Software, SPAX provides registered users with an online solution which differs from the previous “Bemessungssoftware” (design software) as follows:

1. True browser version without JAVA

The new SPAX Design Software is an online solution which is compatible with the most common web browsers such as Microsoft Internet Explorer, Microsoft Edge, Google Chrome, Mozilla Firefox, Apple Safari, etc... WITHOUT the need for a JAVA runtime environment and the corresponding installation and download of JAVA applets.

Please note that the SPAX Design Software has been optimised for use on PCs, laptops, etc... Depending on the OS used, performance and features may be limited when using the program via smartphones or tablets. Tablets with Windows 10 allow for unlimited performance and features.

2. File hosting

It is now possible to store your project files on the SPAX server (similar to a Cloud), so that you can access your projects at anytime from anywhere through any device provided there is a valid internet connection.

In order to comply with data protection regulations, you will be expressively asked to accept File hosting while registering as a user within the SPAX Downloads Centre (this is a prerequisite to the software use). It is possible at any time within the SPAX Design Software to turn on or off the File hosting functionality. It is expected that you may want to maintain it turned on to benefit from its advantages.

3. Project management

You can organise individual project elements (designs) within project files and manage these project files (save, delete, copy, download). The search functionality allows for finding easily your project elements within project files, in case you end up with numerous files over time.

Project management enables to file, organise and easily find back a large amount of designs in your personal filing and naming structure.

You can also save customer contact data, update it when necessary and recall it at any time within a new project, so you do not need to input this information again and again.

4. Languages

At this point in time, the new SPAX Design Software is available in three languages: English, French and German. Further languages may be added with time.

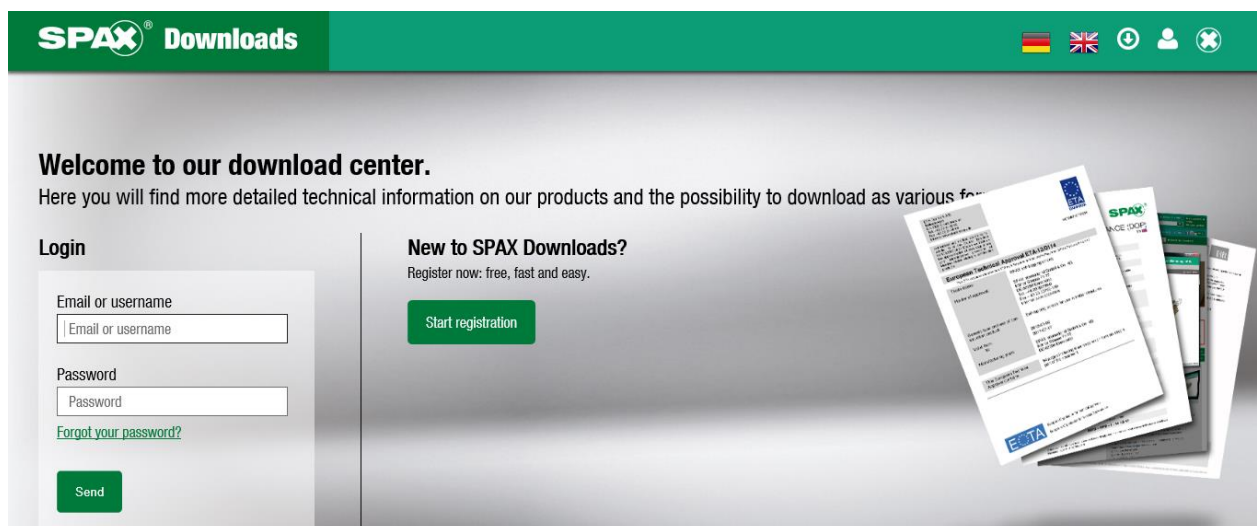
The new SPAX Design Software provides three modules since July 2016 (Notch reinforcement, Compression perpendicular reinforcement and Roof insulation fixing) and will be progressively expanded with new modules. The next module will be added in September 2016 : General Screw Design (shear + withdrawal).



## Find and start using SPAX Design Software



Switch from the homepage [www.spax.com/en/](http://www.spax.com/en/) or [www.spax.com/uk/](http://www.spax.com/uk/) to the registration page or start directly the Download centre by typing <https://downloads.spax.com> in your Browser.



Register (first registration) or login with your Login details



**SPAX® Downloads** Mr. [User] [Icons]

Search: Enter search term [Search Icon]

Topic: All topics 234

Subtopic: All subtopics 234

Document Language: All Languages 234 [Reset]

**234 documents found**

Date	Topic	Subtopic	Title	Language	Type
29.06.2016	Software	SPAX Design Software	<b>UPDATE!</b> SPAX Design Software 06/2016 New browser version of online design of shear reinforcement of timber members, compression reinforcement of beam supports and now additionally over rafter insulation option of server-sided store function (filehosting) and project management. You can choose the language as shown by the flag within the software.	Germany	URL
29.06.2016	Software	SPAX Design Software	<b>UPDATE!</b> SPAX Design Software 06/2016 New browser version of online design of shear reinforcement of timber members, compression reinforcement of beam supports and now additionally over rafter insulation option of server-sided store function (filehosting) and project management. You can choose the language as shown by the flag within the software.	United Kingdom	URL
29.06.2016	Software	SPAX Design Software	<b>UPDATE!</b> SPAX Design Software 06/2016 New browser version of online design of shear reinforcement of timber members, compression reinforcement of beam supports and now additionally over rafter insulation option of server-sided store function (filehosting) and project management. You can choose the language as shown by the flag within the software.	France	URL
23.05.2016	Technical information	Forms	<b>Over rafter insulation input form using pavatex insulating materials (05/2016)</b> Rewriteable service request PDF to calculate over rafter insulation with SPAX and pavatex insulating materials	Germany	PDF (1.01 MB)

Subtopic dropdown menu:

- All subtopics 234
- Tender specifications 2
- Design notes 4
- SPAX Design Software 12**
- European Technical Approval (ETA) 13
- Declaration of Performance (DoP) 49
- General National Technical Approvals 18

Once logged in, select the SPAX Design Software area in the Subtopic filter ...

**SPAX® Downloads** Mr. [User] [Icons]

Search: Enter search term [Search Icon]

Topic: All topics 12

Subtopic: SPAX Design Software 12

Document Language: All Languages 12 [Reset]

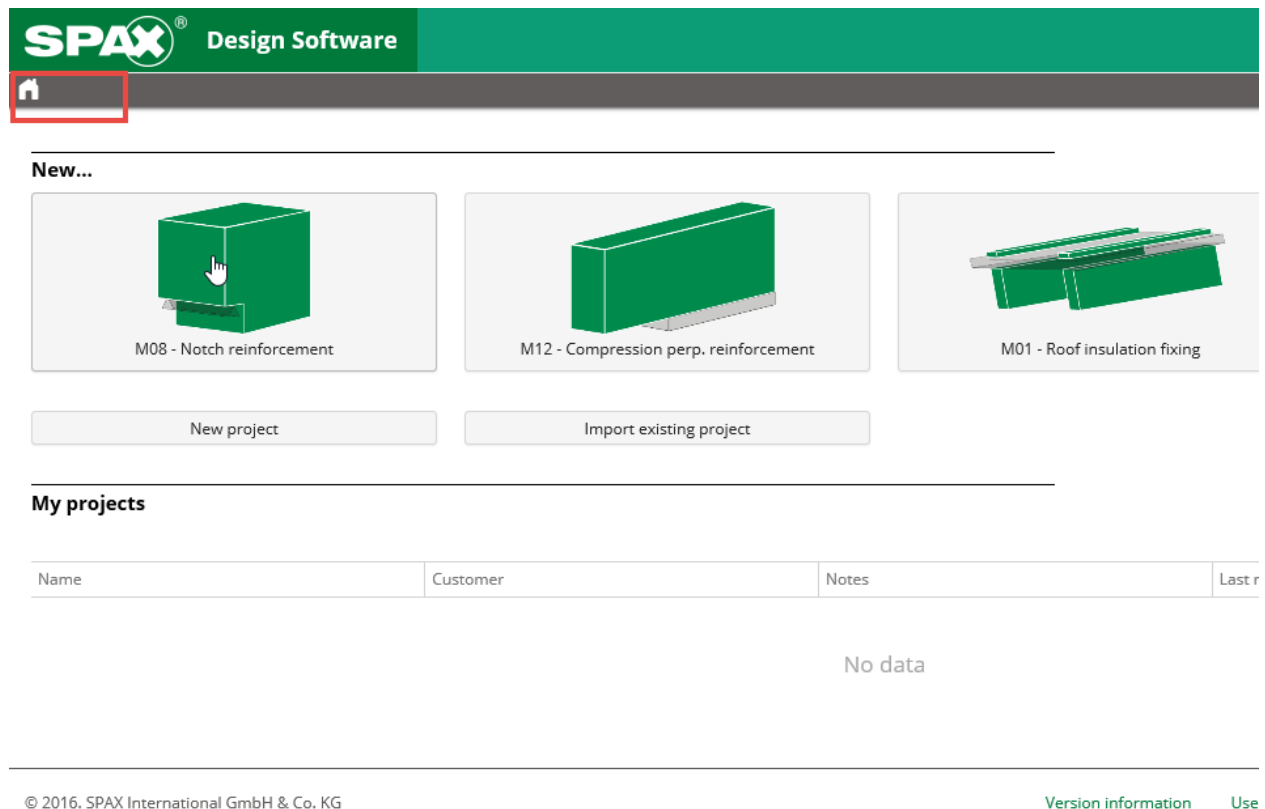
**12 documents found**

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01.02.2016	Software	SPAX Design Software	<b>SPAX Design Software User Agreement (02/2016)</b>	Germany	URL
01.02.2016	Software	SPAX Design Software	<b>SPAX Design Software User Agreement (02/2016)</b>	United Kingdom	URL
01.02.2016	Software	SPAX Design Software	<b>Manual SPAX Design Software 02/2016</b> Quick Reference Guide for SPAX Design Software.	Germany	PDF (1.27 MB)

... and open the new SPAX Design Software by clicking on the corresponding item in the list. The program opens in a new window or tab in your browser as follows:



## Navigate within the SPAX Design Software



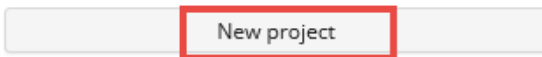
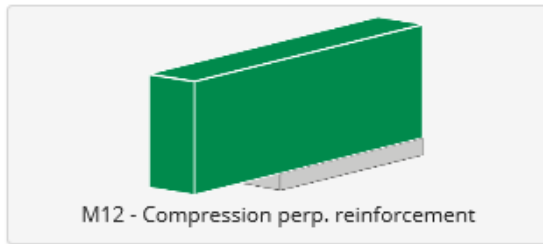
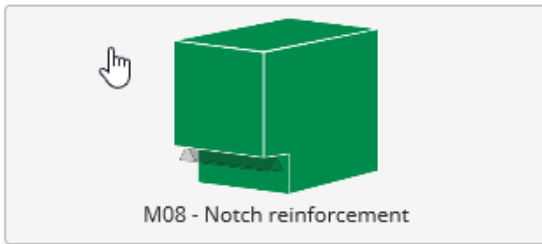
### Start page

At top left of the start page, in the dark grey navigation bar, you will find the Home symbol (also called Home button). This button is always visible while using the program, and clicking on it at any time will get you back to the start page, e.g. when you somehow lost track of where exactly you navigated.





## New...



## My projects

Name	Customer	Notes
------	----------	-------

No data


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### Start new project

Click on this button to create a new project. In a second step, you will be able to add multiple project elements (designs) within this single project file.

#### Hint:

Alternatively, you can also bypass this step and click directly on one of the large Picture buttons (Notch reinforcement, Compression perp. reinforcement), which will automatically create this project element within a project and you can start with the design input.


Design Software


Project 1

Project

Name

Project 1

Design code

DIN EN 1995-1-1:2010-12+A1+A2

Customer

Name

Select...

Address

Postcode

City

Country

Phone

Email

Save cust

Address

Postcode

City

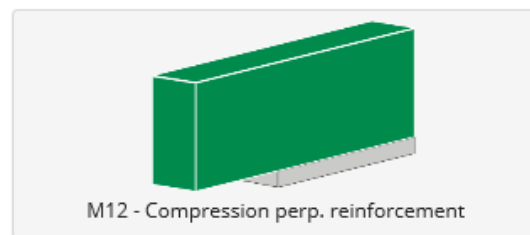
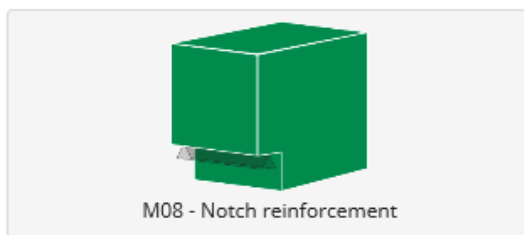
Country

Notes

Save

Reset

### New...



### Project items

Name	Last modification
------	-------------------

No data

The Project 1 window is now open. You can now input all details relative to this project and of course overwrite the default project name which has been automatically generated by the SPAX Design Software. Project name can also be modified later, and at any time.

Through the addition of “/Project 1” at right of the Home button you can recognise the file path. This way you will always know within which current project you are navigating. The dark grey bar is the Navigation bar.



**Project**

Name: Project Trial

Design code: BS EN 1995-1-1:2004+A1+A2

Address:

Postcode:

City:

Country:

Notes:

Save Reset

Modify the project name, so that this change is reflected in the Navigation bar. Also make sure you selected the appropriate Design code.  
Do not forget to save!

EN

Project details

Customer ID:

City:

With a simple click at top right on Project details, the project information area will fold and unfold.

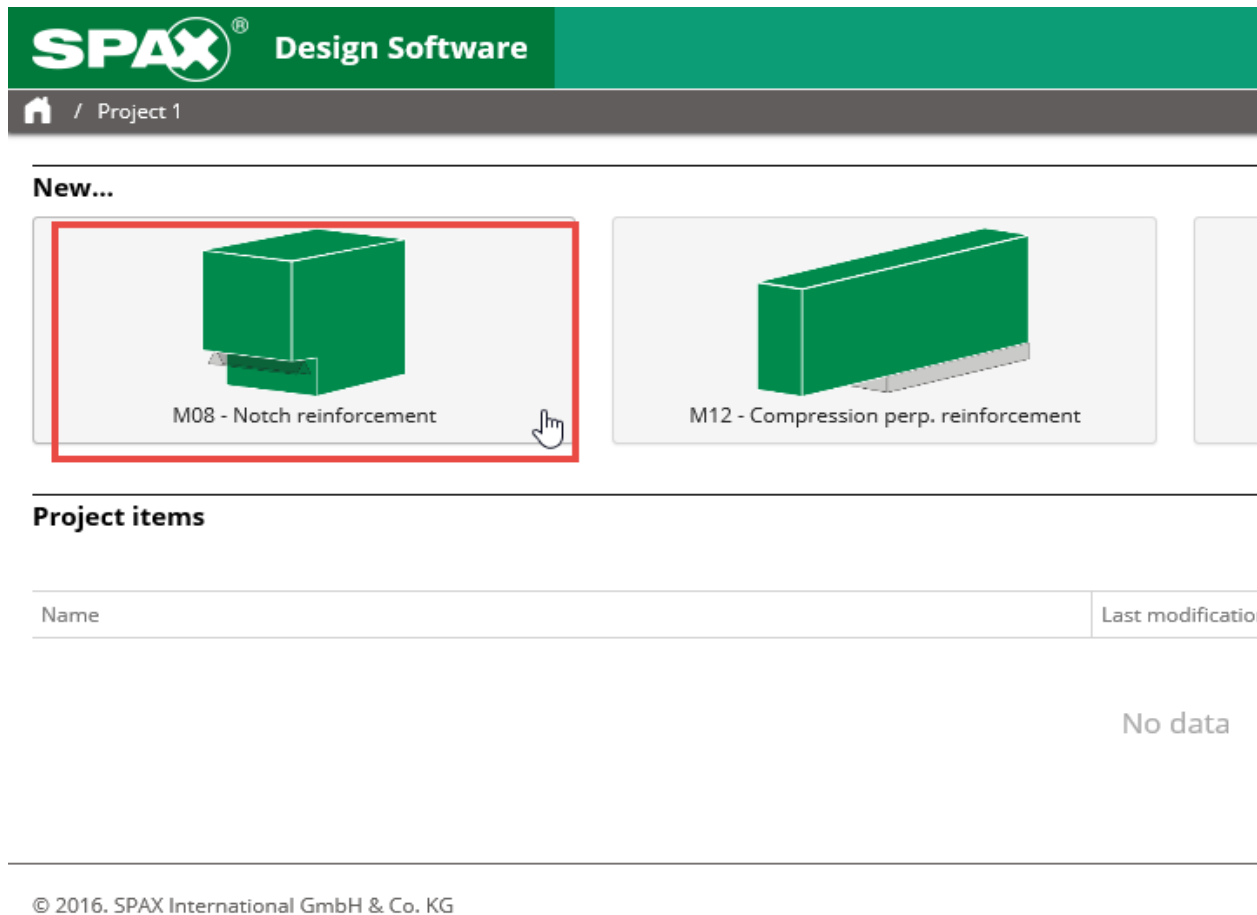
Hint:

Input of customer contact data

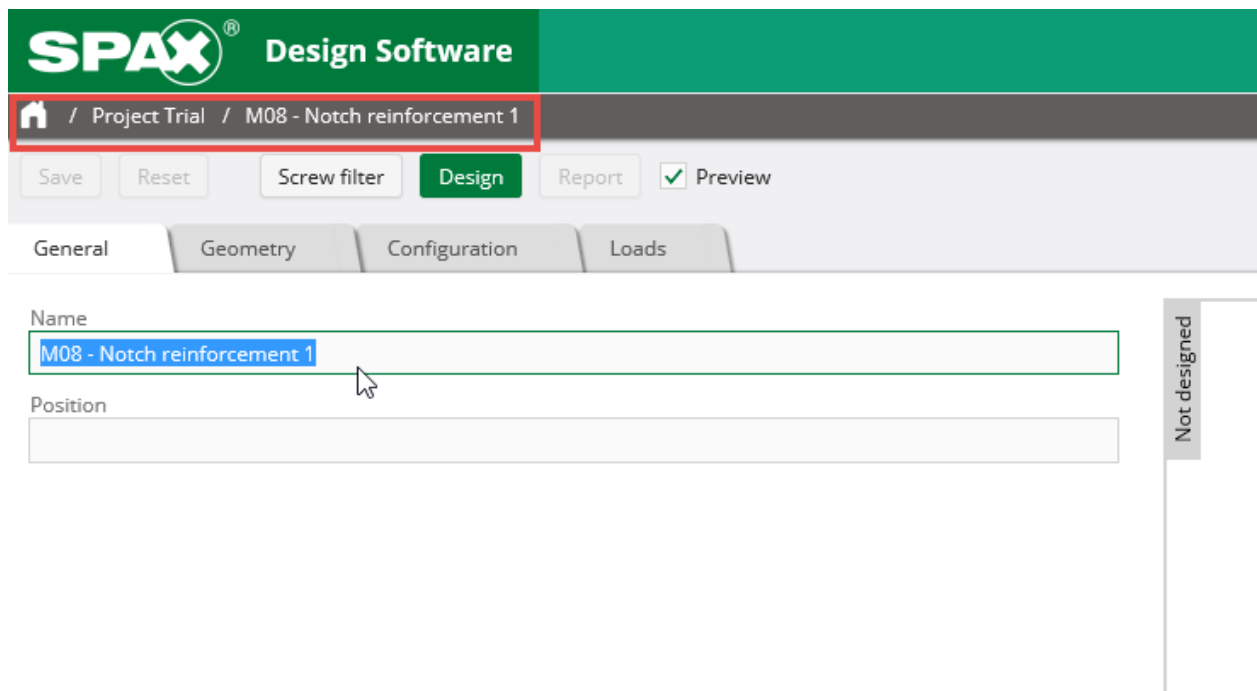
The customer contact data which is input in this area can be saved to your personal Customer data library. You can access and manage this Customer data library within the User Preferences (Gearwheel) under "My customers".







You can now add new project elements (designs) to this project by clicking within New... on the corresponding large Picture button (here Notch reinforcement).



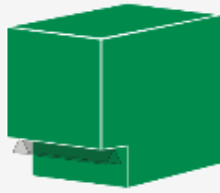
The new project element opens up with the default element name of the corresponding design module. Here also, the element name can be modified and will be reflected in the dark grey Navigation bar.



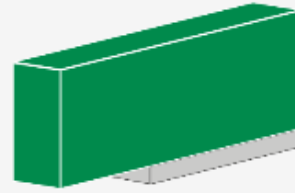




## New...



M08 - Notch reinforcement



M12 - Compression perp. reinforcement

New project

Import existing project

## My projects

Name	Customer	Notes
<a href="#">Project Trial</a>		

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If you have saved multiple projects, you can see them all listed in the My projects overview table within the start page.

<input type="text" value="Search..."/>	
<div> <div>Last modification</div> <div>7/19/2016 - 1:21 PM</div> </div>	<div> <div>↓</div> <div> <div>Download</div> <div>Copy</div> <div>Delete</div> </div> </div>

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With the buttons at right of each project line you can download, copy or delete each project file individually.

## User Preferences

**SPAX**® Design Software

EN

/ User preferences

### User preferences

#### Interface settings

Store projects on SPAX server ☐ No ☒ Yes

Language English

#### User information

Firstname

Surname

Company name

Phone

Email

#### Design preferences

Design code BS EN 1995-1-1:2004+A1+A2

#### My saved information

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Click on the gearwheel button at top right to access your personal User preferences.  
The various options are self-explanatory.  
Click on the Home button to go back to the start page.

One important thing at this stage:

### WARNING!

If you select No for the File hosting (Store projects on SPAX server) and Save, a warning will pop-up. This is to make sure that your data which may have been stored meanwhile on the SPAX server does not get definitively deleted by mistake before you had the opportunity to download on your device the files which you may wish to retain. For safety, a double confirmation will be required.

So if you wish to deactivate the File hosting function – hence will definitively delete all of your data from the SPAX server – you should first switch to the start page and download on your device the project files you wish to retain (export files). Once done, you can come back to User Preferences and deactivate File hosting.

Please beware: All data which you have deleted through this process is definitively lost for ever. SPAX has no possibility to restore any deleted data! You are the owner and manager of your personal data, which we only store for your convenience. If you instruct the system to delete the data, it will do so and the data will be gone.



## Design Modules – Functionalities and use

The screenshot shows the SPAX Design Software interface. The top bar includes the SPAX logo, 'Design Software', and language settings (EN). The main menu has tabs for 'General', 'Geometry', 'Configuration', and 'Loads'. The 'Design' tab is active, showing a 'Screw filter' and 'Design' button. The 'M08 - Notch reinforcement' project is selected. A 3D model of a notched reinforcement structure is displayed, with dimensions 140, 200, and 250. The model is labeled 'Not designed'.

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Use the tabs Geometry, Configuration, ... to navigate through the data input areas and click Design once ready. Do not forget to save!

The screenshot shows the SPAX Design Software interface with the 'Design' tab active. The 'M08 - Notch reinforcement' project is selected. A table of results is displayed, showing the stress ratio for various reinforcement configurations. The table has columns for Diameter (Di...), Length, Head, Steel, Tip, Qty, and Stress ratio. The first row is highlighted in green, indicating it is the selected result.

Di...	Length	Head	Steel	Tip	Qty	Stress ratio
6mm	200mm	Cylinder h...	Carbon steel	4CUT	1	95.62%
8mm	200mm	Flat count...	Carbon steel	CUT	1	71.71%
8mm	200mm	Cylinder h...	Carbon steel	CUT	1	71.71%
10mm	200mm	Flat count...	Carbon steel	CUT	1	59.86%
10mm	200mm	Flat count...	Stainless s...	CUT	1	59.86%
12mm	200mm	Flat count...	Carbon steel	CUT	1	52.15%
8mm	220mm	Flat count...	Carbon steel	CUT	1	51.22%
8mm	220mm	Cylinder h...	Carbon steel	CUT	1	51.22%
10mm	220mm	Flat count...	Carbon steel	CUT	1	42.76%
10mm	220mm	Flat count...	Stainless s...	CUT	1	42.76%
8mm	240mm	Flat count...	Carbon steel	CUT	1	39.84%
8mm	240mm	Cylinder h...	Carbon steel	CUT	1	39.84%
12mm	220mm	Flat count...	Carbon steel	CUT	1	37.25%
10mm	240mm	Flat count...	Carbon steel	CUT	1	33.26%
10mm	240mm	Flat count...	Stainless s...	CUT	1	33.26%
8mm	260mm	Flat count...	Carbon steel	CUT	1	32.6%
8mm	260mm	Cylinder h...	Carbon steel	CUT	1	32.6%
12mm	240mm	Flat count...	Carbon steel	CUT	1	28.97%
8mm	280mm	Flat count...	Carbon steel	CUT	1	27.58%

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The program works now on the SPAX server and returns back within seconds the results of all possible solutions in table format.



## Overview of the main functionalities:

Button []	Switches between general view: Text/Table and Diagram or Text/Table only or Diagram only. Hint: depending on the device you use and the width of its screen, this switch might be useful.
Help	Enables sending SPAX a help query. Your project file will be attached automatically, enabling SPAX support team to visualise your project exactly. Please formulate your query in the text field and provide a phone number and email address, so our support team can contact you accordingly.
Screw filter	<p>Preselection of some parameter, reducing the amount of SPAX products sent to the server for design and therefore the amount of results returned (easier to read) and requiring less design capacity (results returned faster).</p> <p>Define here whether SPAX Screws (default) or SPAX Threaded Rods shall be considered for design.</p>
Preview	<p>If this option is selected and you clicked on Printout, the PDF of the printout will be generated within a new tab or window of your browser. Otherwise your browser will propose to download the PDF.</p> <p>Some devices or browsers do not support the preview of PDF files (e.g. iPhone or iPad), making it necessary to tick off the Preview option in order to enable receiving PDF files. Also ensure then that your device is equipped with a software capable of opening and reading files in PDF format.</p>
Table All results	<p>Results are sorted automatically by the SPAX Design Software, which also preselects one of these results. You can modify this presentation with the following features:</p> <ul style="list-style-type: none"><li>- Click on the columns title (text): ascending or descending sorting is available for each column of the table.</li><li>- Click on the Filter symbol: allows selection of single elements</li><li>- Search feature: allows fast search with your desired search criteria</li><li>- Click on the arrow of a given row in far left column unfolds detailed information on the selected result. It also allows selecting another number of screws, the diagram updates accordingly.</li></ul>
Drawing	<p>Left mouse click: maintain clicked and move mouse to turn around the view in 3D</p> <p>Right mouse click: as above but moves view on plan</p> <p>Scrolling wheel: zoom in or out</p> <p>Zoom all: turned around or moved away drawing will be set back appropriately scaled and centred in viewport (click twice if required)</p> <p>Green status: by input of e.g. a large member depth, the drawing is scaled automatically</p> <p>Views: click on 3D view button to set back the original view ; select other views when required</p>

Enjoy!

