Tschopp Holzindustrie AG

Buttholz® Schalung


# Buttholz®
# **shuttering beams H20**

SAFETY ON THE BUILDING SITE

www.tschopp.swiss

# Buttholz®
# **shuttering beams H20**

## LONGER SERVICE LIFE THANKS TO INNOVATIVE TECHNOLOGY

Intensive use, temperature fluctuations and the effects of the weather place enormous demands on shuttering beams. As a result of the highest quality, careful processing and unique construction technology, Buttholz® shuttering beams have a significantly longer service life than conventional products. That means better cost efficiency.

### LOGO PRINT

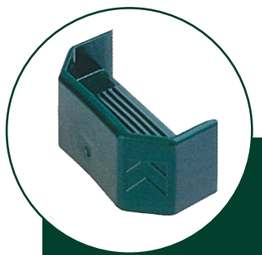
With the option of personalising your Buttholz® shuttering beams H20, you can advertise with your printed logo. Personalisation clears up claims to ownership, indirectly protects against theft and encourages more careful handling.

### STRAPS/EDGES

The straps are made of fine-grained, quality-graded spruce. All edges are cleanly finished.

### CENTRE BAR

The centre bar made of special three-layer panels with predominantly vertical annual rings is ideally suited for load-bearing applications in the outdoor area.

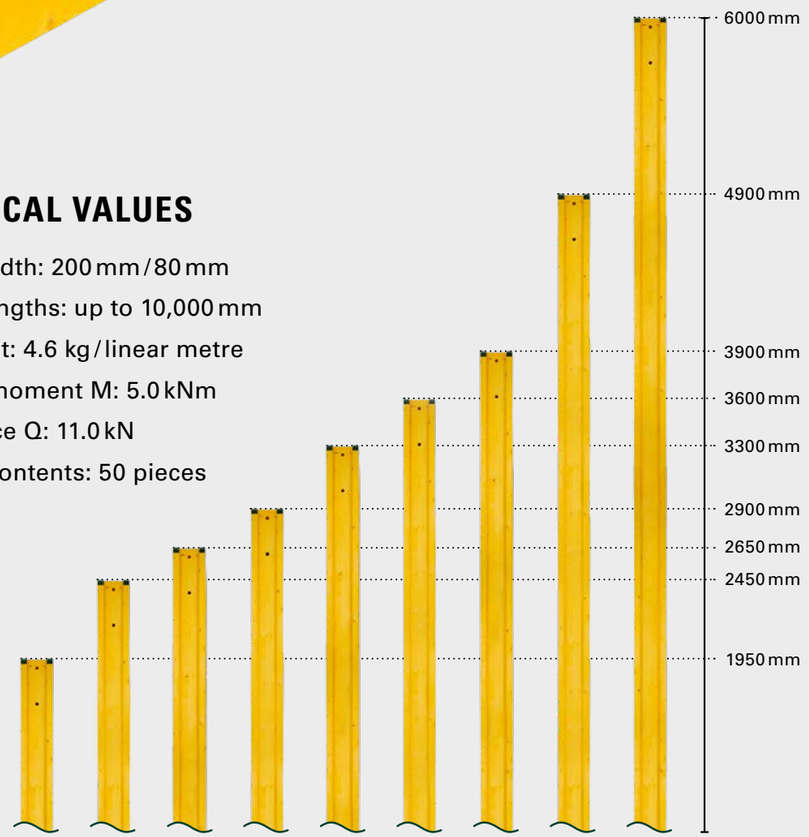
### PROTECTIVE CAP SYSTEM

The impact-resistant protective cap system on the straps prevents damage and increases the service life of the shuttering beam. This results in a cost saving for you.

slab formwork

### TECHNICAL VALUES

Height/width: 200 mm/80 mm
Special lengths: up to 10,000 mm
Net weight: 4.6 kg/linear metre
Bending moment M: 5.0 kNm
Shear force Q: 11.0 kN
Package contents: 50 pieces



# The leading shuttering beams on Swiss building sites

## QUALITY PRODUCT

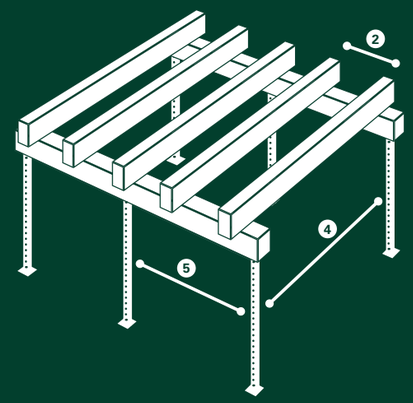
Buttholz® shuttering beams H20 stand for quality and safety in construction. Our shuttering beams are manufactured at Mayr-Melnhof Holz in Reuthe. Tschopp Holzindustrie AG has been successfully collaborating with this company for years. Professional production technology and the strictest quality checks make Buttholz® shuttering beams H20 the leading shuttering beams on Swiss building sites.

## TRADITIONAL SWISS FAMILY BUSINESS

Tschopp Holzindustrie AG is a successful Swiss industrial wood processing company. We are the market leader for production of shuttering panels for the Swiss construction industry.

# CALCULATION TABLE FOR CEILING SHUTTERING

| **Ceiling thickness** cm ❶ | **Total load** kN/m² | **Permissible yoke beam and support spacing** m | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Cross beam spacing** ❷ | | | | or **yoke beam spacing** ❹ | | | | | | | | |
| | | 0,50 | 0,625 | 0,667 | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,25 | 2,50 | 3,00 | 3,50 |
| | | **max. yoke beam spacing** ❸ | | | | **max. support spacing** ❺ | | | | | | | | |
| 10 | 4,35 | 3,67 | 3,40 | 3,33 | 3,20 | 2,91 | 2,70 | 2,48 | 2,29 | 2,14 | 2,02 | 1,92 | 1,69 | 1,44 |
| 12 | 4,87 | 3,47 | 3,22 | 3,15 | 3,03 | 2,75 | 2,55 | 2,34 | 2,17 | 2,03 | 1,91 | 1,81 | 1,51 | 1,29 |
| 14 | 5,39 | 3,30 | 3,07 | 3,00 | 2,89 | 2,62 | 2,43 | 2,22 | 2,06 | 1,93 | 1,81 | 1,63 | 1,36 | 1,17 |
| 16 | 5,91 | 3,17 | 2,94 | 2,88 | 2,77 | 2,52 | 2,33 | 2,12 | 1,97 | 1,84 | 1,65 | 1,49 | 1,24 | 1,06 |
| 18 | 6,43 | 3,05 | 2,83 | 2,77 | 2,67 | 2,42 | 2,23 | 2,04 | 1,89 | 1,71 | 1,52 | 1,37 | 1,14 | 0,98 |
| 20 | 6,95 | 2,95 | 2,74 | 2,68 | 2,58 | 2,34 | 2,15 | 1,96 | 1,81 | 1,58 | 1,41 | 1,27 | 1,06 | 0,90 |
| 22 | 7,47 | 2,86 | 2,66 | 2,60 | 2,50 | 2,27 | 2,07 | 1,89 | 1,68 | 1,47 | 1,31 | 1,18 | 0,98 | 0,84 |
| 24 | 7,99 | 2,79 | 2,59 | 2,53 | 2,43 | 2,21 | 2,00 | 1,83 | 1,57 | 1,38 | 1,22 | 1,10 | 0,92 | 0,79 |
| 26 | 8,51 | 2,72 | 2,52 | 2,47 | 2,37 | 2,16 | 1,94 | 1,72 | 1,48 | 1,29 | 1,15 | 1,03 | 0,86 | 0,74 |
| 28 | 9,03 | 2,65 | 2,46 | 2,41 | 2,32 | 2,10 | 1,88 | 1,62 | 1,39 | 1,22 | 1,08 | 0,97 | 0,81 | 0,70 |
| 30 | 9,61 | 2,59 | 2,41 | 2,36 | 2,27 | 2,04 | 1,82 | 1,53 | 1,31 | 1,14 | 1,02 | 0,92 | 0,76 | 0,65 |
| 35 | 11,17 | 2,47 | 2,29 | 2,24 | 2,16 | 1,89 | 1,58 | 1,31 | 1,13 | 0,98 | 0,88 | 0,79 | 0,66 | 0,56 |
| 40 | 12,73 | 2,36 | 2,19 | 2,15 | 2,05 | 1,73 | 1,38 | 1,15 | 0,99 | 0,86 | 0,77 | 0,69 | 0,58 | 0,49 |
| 45 | 14,29 | 2,27 | 2,11 | 2,05 | 1,93 | 1,54 | 1,23 | 1,03 | 0,88 | 0,77 | 0,68 | 0,62 | 0,51 | 0,44 |
| 50 | 15,85 | 2,20 | 2,01 | 1,95 | 1,83 | 1,39 | 1,11 | 0,93 | 0,79 | 0,69 | 0,62 | 0,56 | 0,46 | 0,40 |
| 55 | 17,41 | 2,13 | 1,92 | 1,86 | 1,68 | 1,26 | 1,01 | 0,84 | 0,72 | 0,63 | 0,56 | 0,51 | 0,42 | 0,36 |
| 60 | 18,97 | 2,05 | 1,84 | 1,74 | 1,55 | 1,16 | 0,93 | 0,77 | 0,66 | 0,58 | 0,52 | 0,46 | 0,39 | 0,33 |
| 65 | 20,53 | 1,97 | 1,71 | 1,61 | 1,43 | 1,07 | 0,86 | 0,71 | 0,61 | 0,54 | 0,48 | 0,43 | 0,36 | 0,31 |
| 70 | 22,09 | 1,90 | 1,59 | 1,49 | 1,33 | 1,00 | 0,80 | 0,66 | 0,57 | 0,50 | 0,44 | 0,40 | 0,33 | 0,28 |
| 75 | 23,65 | 1,84 | 1,49 | 1,40 | 1,24 | 0,93 | 0,74 | 0,62 | 0,53 | 0,47 | 0,41 | 0,37 | 0,31 | 0,27 |
| 80 | 25,21 | 1,75 | 1,40 | 1,31 | 1,16 | 0,87 | 0,70 | 0,58 | 0,50 | 0,44 | 0,39 | 0,35 | 0,29 | 0,25 |
| 85 | 26,77 | 1,64 | 1,31 | 1,23 | 1,10 | 0,82 | 0,66 | 0,55 | 0,47 | 0,41 | 0,37 | 0,33 | 0,27 | 0,23 |
| 90 | 28,33 | 1,55 | 1,24 | 1,16 | 1,04 | 0,78 | 0,62 | 0,52 | 0,44 | 0,39 | 0,35 | 0,31 | 0,26 | 0,22 |
| 95 | 29,89 | 1,47 | 1,18 | 1,10 | 0,98 | 0,74 | 0,59 | 0,49 | 0,42 | 0,37 | 0,33 | 0,29 | 0,25 | 0,21 |
| 100 | 31,45 | 1,40 | 1,12 | 1,05 | 0,93 | 0,70 | 0,56 | 0,47 | 0,40 | 0,35 | 0,31 | 0,28 | 0,23 | 0,20 |




❶ **Ceiling thickness** = 20 cm
❷ **Cross beam spacing** = 0,75 m
❸ Read **max. yoke beam spacing** = 2,58 m
Equal or next smallest
❹ **yoke beam spacing** = 2,50 m
❺ Read **max. support spacing** = 1,27 m

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