

# .RAUCHBOCK

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- Gravity **17.7 BLG**
- ABV ---
- IBU **28**
- SRM **18.6**
- Style **Traditional Bock**

## Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29 liter(s)**

## Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21.3 liter(s)**
- Total mash volume **28.4 liter(s)**

## Steps

- Temp **52 C**, Time **10 min**
- Temp **65 C**, Time **20 min**
- Temp **72 C**, Time **40 min**
- Temp **78 C**, Time **1 min**

## Mash step by step

- Heat up **21.3 liter(s)** of strike water to **57.3C**
- Add grains
- Keep mash **10 min** at **52C**
- Keep mash **20 min** at **65C**
- Keep mash **40 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **14.8 liter(s)** of **76C** water or to achieve **29 liter(s)** of wort

## Fermentables

| Type  | Name                       | Amount        | Yield | EBC |
|-------|----------------------------|---------------|-------|-----|
| Grain | Strzegom Monachijski typ I | 2 kg (28.2%)  | 79 %  | 16  |
| Grain | Strzegom Pilzneński        | 2 kg (28.2%)  | 80 %  | 4   |
| Grain | Rauch Malt (Germany)       | 2 kg (28.2%)  | 81 %  | 4   |
| Grain | Biscuit Malt               | 0.4 kg (5.6%) | 79 %  | 45  |
| Grain | Melanoiden Malt            | 0.3 kg (4.2%) | 80 %  | 39  |
| Grain | Caraaroma                  | 0.2 kg (2.8%) | 78 %  | 400 |
| Grain | Strzegom Karmel 150        | 0.2 kg (2.8%) | 75 %  | 150 |

## Hops

| Use for | Name                  | Amount | Time   | Alpha acid |
|---------|-----------------------|--------|--------|------------|
| Boil    | Marynka               | 30 g   | 60 min | 10 %       |
| Boil    | Saaz (Czech Republic) | 30 g   | 5 min  | 4.5 %      |

## Yeasts

| <b>Name</b>             | <b>Type</b> | <b>Form</b> | <b>Amount</b> | <b>Laboratory</b> |
|-------------------------|-------------|-------------|---------------|-------------------|
| FM31 Bawarska<br>Dolina | Lager       | Liquid      | 150 ml        | Fermentum Mobile  |