

Koziotek

- Gravity **18.4 BLG**
- ABV ---
- IBU **28**
- SRM **21.9**
- Style **Traditional Bock**

Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **8 %**
- Size with trub loss **13 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **16 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.3 liter(s) / kg**
- Mash size **14 liter(s)**
- Total mash volume **18.3 liter(s)**

Steps

- Temp **52 C**, Time **15 min**
- Temp **68 C**, Time **30 min**
- Temp **78 C**, Time **5 min**
- Temp **72 C**, Time **30 min**

Mash step by step

- Heat up **14 liter(s)** of strike water to **56.9C**
- Add grains
- Keep mash **15 min** at **52C**
- Keep mash **30 min** at **68C**
- Keep mash **30 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **6.3 liter(s)** of **76C** water or to achieve **16 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|-----------------|--------|-----|
| Grain | Strzegom Monachijski typ II | 2.5 kg (58.8%) | --- % | 22 |
| Grain | Strzegom Wiedeński | 1.25 kg (29.4%) | --- % | 10 |
| Grain | Acid Malt | 0.1 kg (2.4%) | 58.7 % | 6 |
| Grain | Oats, Flaked | 0.3 kg (7.1%) | --- % | 2 |
| Grain | Strzegom Karmel 600 | 0.1 kg (2.4%) | 68 % | 601 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------------------|--------|--------|------------|
| Boil | hallertauer magnum | 10 g | 60 min | 13.5 % |
| Boil | Hallertau comet | 10 g | 20 min | 7 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------------------|-------|-------|--------|-----------------|
| brewmasters lager | Lager | Slant | 500 ml | Mangrove Jack's |

Extras

Recipe has been printed via **BREWNES.com** - a complex online solution for homebrewers to track brewing process easily.

| Type | Name | Amount | Use for | Time |
|-------------|----------------|--------|---------|--------|
| Fining | mech irlandzki | 3 g | Boil | 60 min |
| Water Agent | chlorek wapnia | 4 g | Mash | --- |