

Okopcony Koziot

- Gravity **18.4 BLG**
- ABV **8 %**
- IBU **20**
- SRM **20.2**
- Style **Traditional Bock**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.5 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **27.8 liter(s)**
- Total mash volume **35.8 liter(s)**

Steps

- Temp **52 C**, Time **10 min**
- Temp **66 C**, Time **30 min**
- Temp **72 C**, Time **40 min**
- Temp **75 C**, Time **5 min**

Mash step by step

- Heat up **27.8 liter(s)** of strike water to **56.6C**
- Add grains
- Keep mash **10 min** at **52C**
- Keep mash **30 min** at **66C**
- Keep mash **40 min** at **72C**
- Keep mash **5 min** at **75C**
- Sparge using **6.7 liter(s)** of **76C** water or to achieve **26.5 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Monachijski typ II	2.63 kg (33.1%)	79 %	22
Grain	Słód Wędzony	3.28 kg (41.3%)	80 %	5
Grain	Special B Castle	0.2 kg (2.5%)	70 %	350
Grain	Special w Castle	0.2 kg (2.5%)	70 %	350
Grain	Strzegom Wiedeński	1.31 kg (16.5%)	79 %	10
Grain	Weyermann - Melanoiden Malt	0.26 kg (3.3%)	81 %	53
Grain	Strzegom Barwiący	0.07 kg (0.8%)	68 %	1300

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	19.69 g	60 min	8 %
Boil	Marynka	13.13 g	30 min	8 %

Yeasts

Name	Type	Form	Amount	Laboratory
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FM31 Bawarska Dolina	Lager	Liquid	393.75 ml	Fermentum Mobile
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