

Saison

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **27**
- SRM **9.8**
- Style **Saison**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **65 min**
- Evaporation rate **9 %/h**
- Boil size **25 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.2 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **19.7 liter(s)**

Steps

- Temp **64 C**, Time **60 min**
- Temp **72 C**, Time **20 min**

Mash step by step

- Heat up **15 liter(s)** of strike water to **70.9C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **20 min** at **72C**
- Sparge using **14.7 liter(s)** of **76C** water or to achieve **25 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	2.7 kg (57.4%)	81 %	4
Grain	Strzegom Wiedeński	0.8 kg (17%)	79 %	10
Grain	Pszeniczny	0.7 kg (14.9%)	85 %	4
Grain	Carahell	0.2 kg (4.3%)	77 %	26
Grain	Caraaroma	0.2 kg (4.3%)	78 %	400
Grain	zakwaszający	0.1 kg (2.1%)	--- %	---

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	30 g	45 min	7.4 %
Boil	Lublin (Lubelski)	15 g	20 min	4 %
Aroma (end of boil)	Lublin (Lubelski)	5 g	0 min	4 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale BE-134	Ale	Dry	11.5 g	Fermentis

Extras

Type	Name	Amount	Use for	Time
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Spice	curacao	20 g	Boil	20 min
Other	glukoza	300 g	Boil	0 min

Notes

- fermentacja burzliwa 14 dni w temp około 22°C
fermentacja cicha 19 dni w temp około 22°C
refermentacja 160g na 20l
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