

Risek

- Gravity **25.9 BLG**
- ABV **12.2 %**
- IBU **89**
- SRM **63**
- Style **Russian Imperial Stout**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **25.9 liter(s)**
- Total mash volume **36.2 liter(s)**

Steps

- Temp **62 C**, Time **60 min**
- Temp **72 C**, Time **30 min**
- Temp **75 C**, Time **5 min**

Mash step by step

- Heat up **25.9 liter(s)** of strike water to **70.4C**
- Add grains
- Keep mash **60 min** at **62C**
- Keep mash **30 min** at **72C**
- Keep mash **5 min** at **75C**
- Sparge using **9.8 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg (46.1%)	80 %	5
Grain	Strzegom Monachijski typ II	2 kg (18.4%)	79 %	22
Grain	Słód Wędzony Steinbach	1 kg (9.2%)	80 %	5
Grain	Płatki owsiane	0.6 kg (5.5%)	85 %	3
Grain	Strzegom Czekoladowy ciemny	0.25 kg (2.3%)	68 %	1200
Grain	Strzegom pszenica prażona	0.25 kg (2.3%)	70 %	1000
Grain	Strzegom Barwiący	0.25 kg (2.3%)	68 %	1300
Grain	Jęczmień palony	0.25 kg (2.3%)	55 %	985
Grain	Karmelowy Czerwony	0.25 kg (2.3%)	75 %	59
Grain	Strzegom Karmel 600	0.25 kg (2.3%)	68 %	601
Grain	Strzegom Karmel 300	0.25 kg (2.3%)	70 %	299
Sugar	Candi Sugar, Dark	0.5 kg (4.6%)	78.3 %	542

Hops

Use for	Name	Amount	Time	Alpha acid
First Wort	Warrior	50 g	60 min	18.5 %
Boil	El Dorado	25 g	15 min	13.7 %
Boil	Falconers Flight	25 g	15 min	11.3 %
Boil	El Dorado	25 g	5 min	13.7 %
Boil	El Dorado	25 g	5 min	15 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Slant	300 ml	Safale

Extras

Type	Name	Amount	Use for	Time
Flavor	Suska sechlońska	200 g	Boil	15 min
Flavor	Płatki Dębowe Amerykańskie - lekko opiekane	25 g	Secondary	14 day(s)
Flavor	Płatki Dębowe Francuskie - średnio opiekane	50 g	Secondary	14 day(s)

Notes

- Płatki dębowe macerowane w burbonie przez 14 dni.
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