

RIS

- Gravity **21.1 BLG**
- ABV **9.4 %**
- IBU **95**
- SRM **61.3**
- 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 **120 min**
- Evaporation rate **10 %/h**
- Boil size **30 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **31.2 liter(s)**
- Total mash volume **41.6 liter(s)**

Steps

- Temp **66 C**, Time **90 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **31.2 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **90 min** at **66C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **9.2 liter(s)** of **76C** water or to achieve **30 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	7.2 kg (69.2%)	80 %	5
Grain	Strzegom Monachijski typ II	0.8 kg (7.7%)	79 %	22
Grain	Strzegom Karmel 300	0.3 kg (2.9%)	70 %	299
Grain	Jęczmień palony	0.3 kg (2.9%)	55 %	985
Grain	Płatki owsiane	0.5 kg (4.8%)	85 %	3
Grain	Fawcett - Pszeniczny Czekoladowy	0.5 kg (4.8%)	73 %	1001
Grain	Strzegom Czekoladowy 1200	0.5 kg (4.8%)	68 %	1202
Grain	Carafa II	0.3 kg (2.9%)	70 %	812

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	100 g	60 min	13.2 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Slant	400 ml	Fermentis