

Rudy skrzat

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **20**
- SRM **12.1**
- Style **Irish Red Ale**

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 **69 %**
- Liquor-to-grist ratio **2.8 liter(s) / kg**
- Mash size **15.3 liter(s)**
- Total mash volume **20.7 liter(s)**

Steps

- Temp **64 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **15.3 liter(s)** of strike water to **71.8C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **5 min** at **78C**
- Sparge using **15.5 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	4.6 kg (84.3%)	80 %	5
Grain	Strzegom Wiedeński	0.5 kg (9.2%)	79 %	10
Grain	Strzegom Karmel 150	0.275 kg (5%)	75 %	150
Grain	Jęczmień palony	0.08 kg (1.5%)	55 %	985

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Hallertauer	30 g	60 min	6 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale