

2 na 100

- Gravity **6.8 BLG**
- ABV **2.6 %**
- IBU **37**
- SRM **4.4**
- Style **Rye IPA**

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 **3.5 liter(s) / kg**
- Mash size **9.1 liter(s)**
- Total mash volume **11.7 liter(s)**

Steps

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

Mash step by step

- Heat up **9.1 liter(s)** of strike water to **79.4C**
- Add grains
- Keep mash **60 min** at **72C**
- Sparge using **18.8 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	1.5 kg (57.7%)	79 %	6
Grain	Żytni	1 kg (38.5%)	85 %	8
Grain	Karmelowy żytni Strzegom	0.1 kg (3.8%)	75 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Amarillo	20 g	60 min	7.1 %
Aroma (end of boil)	Amarillo	30 g	20 min	7.1 %
Dry Hop	El Dorado	50 g	7 day(s)	15 %

Yeasts

Name	Type	Form	Amount	Laboratory
US-05	Ale	Dry	11.5 g	---