

A wheat

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **34**
- SRM **4.1**
- Style **American Wheat or Rye Beer**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.1 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **20.8 liter(s)**
- Total mash volume **26 liter(s)**

Steps

- Temp **67 C**, Time **70 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **20.8 liter(s)** of strike water to **72.9C**
- Add grains
- Keep mash **70 min** at **67C**
- Keep mash **10 min** at **78C**
- Sparge using **11.5 liter(s)** of **76C** water or to achieve **27.1 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	2.6 kg (50%)	80 %	4
Grain	Strzegom Pszeniczny	2.6 kg (50%)	81 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Liberty	30 g	30 min	7.7 %
Aroma (end of boil)	Willamette	30 g	15 min	7.9 %
Aroma (end of boil)	Vanguard	15 g	15 min	5.3 %
Aroma (end of boil)	Vanguard	15 g	0 min	5.3 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11 g	Fermentis