

Winter Afternoon

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **36**
- SRM **4.3**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **28.9 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.2 liter(s)**
- Total mash volume **25.6 liter(s)**

Steps

- Temp **66 C**, Time **60 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **0 min**

Mash step by step

- Heat up **19.2 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **15 min** at **72C**
- Keep mash **0 min** at **78C**
- Sparge using **16.1 liter(s)** of **76C** water or to achieve **28.9 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	6 kg (93.8%)	80 %	5
Grain	Płatki pszeniczne	0.4 kg (6.3%)	60 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	5 g	45 min	12 %
Aroma (end of boil)	Citra	10 g	10 min	12 %
Aroma (end of boil)	Mosaic	10 g	10 min	10 %
Aroma (end of boil)	Galaxy	15 g	10 min	15 %
Whirlpool	Galaxy	15 g	50 min	15 %
Whirlpool	Mosaic	10 g	50 min	10 %
Whirlpool	Citra	5 g	50 min	12 %
Dry Hop	Citra	50 g	4 day(s)	12 %
Dry Hop	Mosaic	50 g	4 day(s)	10 %
Dry Hop	Galaxy	30 g	4 day(s)	15 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Slant	250 ml	Fermentis