

XXI APA 2.0

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **52**
- SRM **4.9**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **15.5 liter(s)**
- Trub loss **5 %**
- Size with trub loss **16.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **20.5 liter(s)**

Mash information

- Mash efficiency **83 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **10.5 liter(s)**
- Total mash volume **14 liter(s)**

Steps

- Temp **66 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **2 min**

Mash step by step

- Heat up **10.5 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **40 min** at **66C**
- Keep mash **20 min** at **72C**
- Keep mash **2 min** at **78C**
- Sparge using **13.5 liter(s)** of **76C** water or to achieve **20.5 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	2.45 kg (70%)	79 %	6
Grain	Strzegom Monachijski typ I	0.7 kg (20%)	79 %	16
Grain	Płatki owsiane	0.35 kg (10%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Aroma (end of boil)	Equinox	20 g	25 min	13.1 %
Boil	Mosaic	20 g	25 min	10 %
Whirlpool	Equinox	20 g	5 min	13.1 %
Whirlpool	Mosaic	20 g	5 min	10 %
Dry Hop	Equinox	30 g	4 day(s)	13.1 %
Dry Hop	Mosaic	30 g	4 day(s)	10 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	10.06 g	Fermentis