

APA

- Gravity **13.9 BLG**
- ABV ---
- IBU **54**
- SRM **5.4**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **17.5 liter(s)**
- Total mash volume **22.5 liter(s)**

Steps

- Temp **66 C**, Time **75 min**
- Temp **76 C**, Time **0 min**

Mash step by step

- Heat up **17.5 liter(s)** of strike water to **72.6C**
- Add grains
- Keep mash **75 min** at **66C**
- Keep mash **0 min** at **76C**
- Sparge using **12.8 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	4 kg (80%)	79 %	6
Grain	Pszeniczny	1 kg (20%)	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	20 g	50 min	13 %
Boil	Chinook	20 g	25 min	13 %
Aroma (end of boil)	Lemon drop	25 g	10 min	4.6 %
Aroma (end of boil)	Lemon drop	25 g	5 min	4.6 %
Whirlpool	Amarillo	30 g	0 min	9.5 %
Dry Hop	Amarillo	70 g	5 day(s)	9.5 %