

## APA (robiepiwo.pl)

- Gravity **13.6 BLG**
- ABV ---
- IBU **48**
- SRM **10.4**
- Style **American Pale Ale**

### 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 **3.4 liter(s) / kg**
- Mash size **16.3 liter(s)**
- Total mash volume **21.1 liter(s)**

### Steps

- Temp **68 C**, Time **60 min**

### Mash step by step

- Heat up **16.3 liter(s)** of strike water to **75.1C**
- Add grains
- Keep mash **60 min** at **68C**
- Sparge using **13.8 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	3.5 kg (72.9%)	85 %	7
Grain	Strzegom Wiedeński	1 kg (20.8%)	79 %	10
Grain	Karmelowy żytni Strzegom	0.2 kg (4.2%)	75 %	150
Grain	Karmelowy Czerwony	0.1 kg (2.1%)	75 %	59

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade	30 g	60 min	6 %
Boil	Cascade	10 g	30 min	6 %
Boil	Amarillo	20 g	55 min	9.5 %
Dry Hop	Chinook	30 g	7 day(s)	13 %

### Yeasts

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

### Extras

Type	Name	Amount	Use for	Time
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Fining	Mech irlandzki	5 g	Boil	10 min
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