

# 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 |
|------|------|--------|---------|------|
|------|------|--------|---------|------|

|        |                |     |      |        |
|--------|----------------|-----|------|--------|
| Fining | Mech irlandzki | 5 g | Boil | 10 min |
|--------|----------------|-----|------|--------|