

## APA 2

- Gravity **11.4 BLG**
- ABV **4.6 %**
- IBU **34**
- SRM **7.5**

### Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **4 %**
- Size with trub loss **23.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **26.1 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

### Steps

- Temp **64 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **5 min**

### Mash step by step

- Heat up **15 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **40 min** at **64C**
- Keep mash **20 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **16.1 liter(s)** of **76C** water or to achieve **26.1 liter(s)** of wort

### Fermentables

| Type  | Name                        | Amount       | Yield | EBC |
|-------|-----------------------------|--------------|-------|-----|
| Grain | Strzegom Pale Ale           | 4.7 kg (94%) | 79 %  | 6   |
| Grain | Caramel/Crystal Malt - 120L | 0.2 kg (4%)  | 72 %  | 236 |
| Grain | Strzegom Pilzneński         | 0.1 kg (2%)  | 80 %  | 4   |

### Hops

| Use for | Name                   | Amount | Time     | Alpha acid |
|---------|------------------------|--------|----------|------------|
| Boil    | Columbus/Tomahawk/Zeus | 10 g   | 60 min   | 15.5 %     |
| Boil    | Columbus/Tomahawk/Zeus | 10 g   | 30 min   | 15.5 %     |
| Boil    | Mosaic                 | 25 g   | 5 min    | 10 %       |
| Dry Hop | Mosaic                 | 25 g   | 5 day(s) | 10 %       |

### Yeasts

| Name                     | Type | Form | Amount | Laboratory |
|--------------------------|------|------|--------|------------|
| Gozdawa Pure Ale Yeast 7 | Ale  | Dry  | 11.5 g | ---        |

### Extras

| Type | Name | Amount | Use for | Time |
|------|------|--------|---------|------|
|------|------|--------|---------|------|

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