

Weselna APA II

- Gravity **11.9 BLG**
- ABV ---
- IBU **49**
- SRM **11.4**
- 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 liter(s) / kg**
- Mash size **13.2 liter(s)**
- Total mash volume **17.6 liter(s)**

Steps

- Temp **55 C**, Time **20 min**
- Temp **65 C**, Time **40 min**
- Temp **75 C**, Time **10 min**

Mash step by step

- Heat up **13.2 liter(s)** of strike water to **60.8C**
- Add grains
- Keep mash **20 min** at **55C**
- Keep mash **40 min** at **65C**
- Keep mash **10 min** at **75C**
- Sparge using **16.5 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 3.9 kg (88.6%) | 80 % | 5 |
| Grain | Strzegom Karmel 150 | 0.3 kg (6.8%) | 75 % | 150 |
| Grain | Strzegom Karmel 300 | 0.2 kg (4.5%) | 70 % | 299 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-----------------|--------|--------|------------|
| Boil | Citra 2016 | 10 g | 60 min | 13 % |
| Boil | Centennial 2016 | 10 g | 40 min | 9.7 % |
| Boil | Citra 2016 | 10 g | 20 min | 13 % |
| Boil | Centennial 2016 | 20 g | 5 min | 9.7 % |
| Boil | Citra 2016 | 10 g | 5 min | 13 % |
| Boil | Cascade 2015 | 30 g | 5 min | 6.9 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|-------|--------|------------|
| Safale US-05 | Ale | Slant | 300 ml | Fermentis |