

prima3 KW

- Gravity **15 BLG**
- ABV **6.2 %**
- IBU **36**
- SRM **4.9**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **1500 liter(s)**
- Trub loss **5 %**
- Size with trub loss **1575 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **1811.3 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **1335 liter(s)**
- Total mash volume **1780 liter(s)**

Steps

- Temp **64 C**, Time **50 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **1335 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **50 min** at **64C**
- Keep mash **30 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **921.3 liter(s)** of **76C** water or to achieve **1811.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 350 kg (78.7%) | 80 % | 5 |
| Grain | Abbey Castle | 10 kg (2.2%) | 80 % | 45 |
| Grain | Płatki owsiane | 45 kg (10.1%) | 85 % | 3 |
| Grain | Pszeniczny | 40 kg (9%) | 85 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|------------------------|--------|--------|------------|
| Boil | Chinook | 160 g | 0 min | 13 % |
| Boil | Columbus/Tomahawk/Zeus | 700 g | 60 min | 15.5 % |
| Boil | Simcoe | 160 g | 5 min | 13.2 % |
| Boil | Chinook | 160 g | 5 min | 13 % |
| Boil | Columbus/Tomahawk/Zeus | 300 g | 50 min | 15.5 % |
| Boil | Simcoe | 160 g | 0 min | 13.2 % |
| Boil | Chinook | 200 g | 0 min | 13 % |
| Boil | Simcoe | 200 g | 0 min | 13.2 % |
| Boil | Simcoe | 400 g | 0 min | 13.2 % |
| Whirlpool | Citra | 500 g | 20 min | 12 % |

| | | | | |
|-----------|----------|--------|----------|--------|
| Boil | Chinook | 400 g | 0 min | 13 % |
| Whirlpool | Amarillo | 1300 g | 20 min | 9.5 % |
| Whirlpool | Simcoe | 700 g | 20 min | 13.2 % |
| Whirlpool | Chinook | 600 g | 20 min | 13 % |
| Dry Hop | Citra | 800 g | 5 day(s) | 12 % |
| Dry Hop | Simcoe | 800 g | 5 day(s) | 13.2 % |
| Dry Hop | Mosaic | 500 g | 5 day(s) | 10 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-------|------|------|--------|------------|
| us-05 | Ale | Dry | 1000 g | --- |