

American Pale Ale Wariacja

- Gravity **14.3 BLG**
- ABV **5.9 %**
- IBU **44**
- SRM ---
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **30.4 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **20.7 liter(s)**
- Total mash volume **27.6 liter(s)**

Steps

- Temp **55 C**, Time **25 min**
- Temp **64 C**, Time **60 min**
- Temp **72 C**, Time **15 min**
- Temp **77 C**, Time **5 min**

Mash step by step

- Heat up **20.7 liter(s)** of strike water to **60.8C**
- Add grains
- Keep mash **25 min** at **55C**
- Keep mash **60 min** at **64C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **77C**
- Sparge using **16.6 liter(s)** of **76C** water or to achieve **30.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|--------------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 2.1 kg (30.4%) | 80 % | --- |
| Grain | Strzegom Pilzneński | 4 kg (58%) | 80 % | --- |
| Grain | Słód pszeniczny Bestmalz | 0.5 kg (7.2%) | 82 % | --- |
| Grain | Cara Gold Castlemalting | 0.3 kg (4.3%) | 78 % | --- |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------------------|--------|----------|------------|
| Boil | Simcoe | 10 g | 60 min | 13.2 % |
| Boil | Centennial | 10 g | 60 min | 10.5 % |
| Boil | Centennial | 30 g | 15 min | 10.5 % |
| Boil | Columbus/Tomahawk/Zeus | 15 g | 15 min | 15.5 % |
| Boil | Columbus/Tomahawk/Zeus | 10 g | 0 min | 15.5 % |
| Dry Hop | Centennial | 20 g | 7 day(s) | 10.5 % |
| Dry Hop | Columbus/Tomahawk/Zeus | 25 g | 7 day(s) | 15.5 % |
| Dry Hop | Amarillo | 30 g | 7 day(s) | 9.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|----------------------|-------------|-------------|---------------|-------------------|
| Danstar - Nottingham | Ale | Slant | 300 ml | Danstar |