

Dziki zachód

- Gravity **15.4 BLG**
- ABV **6.5 %**
- IBU **60**
- SRM **4**
- Style **American IPA**

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 **5 %/h**
- Boil size **24.1 liter(s)**

Mash information

- Mash efficiency **87 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **13.3 liter(s)**
- Total mash volume **18.6 liter(s)**

Steps

- Temp **64 C**, Time **80 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **13.3 liter(s)** of strike water to **72.8C**
- Add grains
- Keep mash **80 min** at **64C**
- Keep mash **10 min** at **78C**
- Sparge using **16.1 liter(s)** of **76C** water or to achieve **24.1 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|---------------|-------|-----|
| Grain | Viking Pale Ale malt | 2.13 kg (40%) | 80 % | 5 |
| Grain | Pilzneński | 2.55 kg (48%) | 81 % | 4 |
| Grain | Strzegom Pszeniczny | 0.43 kg (8%) | 81 % | 6 |
| Grain | wiedeński | 0.21 kg (4%) | --- % | --- |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|------------|---------|----------|------------|
| Boil | citra | 29.79 g | 60 min | 12 % |
| Boil | Amarillo | 19.15 g | 20 min | 9.5 % |
| Boil | Cascade | 12.77 g | 20 min | 6 % |
| Boil | centennial | 17.02 g | 20 min | 8.5 % |
| Aroma (end of boil) | Centennial | 8.51 g | 1 min | 10.5 % |
| Aroma (end of boil) | Cascade | 19.15 g | 1 min | 6 % |
| Dry Hop | Citra | 17.02 g | 4 day(s) | 12 % |
| Dry Hop | Amarillo | 12.77 g | 4 day(s) | 9.5 % |
| Dry Hop | Cascade | 31.91 g | 4 day(s) | 6 % |
| Dry Hop | Centennial | 27.66 g | 4 day(s) | 10.5 % |

Yeasts

Recipe has been printed via **BREWNES.com** - a complex online solution for homebrewers to track brewing process easily.

| Name | Type | Form | Amount | Laboratory |
|--------------|-------------|-------------|---------------|-------------------|
| Safale US-05 | Ale | Dry | 4.89 g | --- |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|-------------|---------------|----------------|-------------|
| Spice | earl grey | 63.83 g | Secondary | 7 day(s) |