

Grodziska IPA

- Gravity **14.5 BLG**
- ABV **6 %**
- IBU **19**
- SRM **6.4**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.2 liter(s)**
- Total mash volume **25.6 liter(s)**

Steps

- Temp **69 C**, Time **60 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **19.2 liter(s)** of strike water to **77.2C**
- Add grains
- Keep mash **60 min** at **69C**
- Keep mash **5 min** at **76C**
- Sparge using **13.6 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------|---------------|-------|-----|
| Grain | Viking Pilsner malt | 3 kg (46.9%) | 82 % | 15 |
| Grain | Pszeniczny | 3 kg (46.9%) | 85 % | 3 |
| Grain | Płatki owsiane | 0.4 kg (6.3%) | 60 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|------------|-------------------|--------|----------|------------|
| First Wort | lunga | 10 g | 70 min | 11 % |
| Whirlpool | Citra | 20 g | 5 min | 12 % |
| Whirlpool | Sorachi Ace | 20 g | 5 min | 10 % |
| Whirlpool | Simcoe | 20 g | 5 min | 13.2 % |
| Dry Hop | Citra | 30 g | 5 day(s) | 12 % |
| Dry Hop | Simcoe | 30 g | 5 day(s) | 13.2 % |
| Dry Hop | Sorachi Ace | 30 g | 5 day(s) | 10 % |
| Dry Hop | Herbata Earl Grey | 20 g | 1 day(s) | 1 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|----------------|------|------|--------|------------|
| Fermentis S-33 | Ale | Dry | 22 g | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|--------|---------------------------|--------|-----------|----------|
| Fining | NaCl | 4 g | Mash | 70 min |
| Flavor | Skórka pomarańczy curacao | 30 g | Boil | 5 min |
| Spice | kolendra | 7 g | Boil | 5 min |
| Fining | Whirfloc 1/4 tabletki | 1 g | Boil | 5 min |
| Other | Witamina C | 3 g | Secondary | 5 day(s) |
| Other | Witamina C | 3 g | Bottling | --- |