

Hop Hop

- Gravity **15.7 BLG**
- ABV ---
- IBU **95**
- SRM **9.1**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **8 %**
- Size with trub loss **16.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **19.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **13.8 liter(s)**
- Total mash volume **18.4 liter(s)**

Steps

- Temp **52 C**, Time **10 min**
- Temp **63 C**, Time **30 min**
- Temp **66 C**, Time **60 min**
- Temp **77 C**, Time **20 min**

Mash step by step

- Heat up **13.8 liter(s)** of strike water to **57.3C**
- Add grains
- Keep mash **10 min** at **52C**
- Keep mash **30 min** at **63C**
- Keep mash **60 min** at **66C**
- Keep mash **20 min** at **77C**
- Sparge using **10.6 liter(s)** of **76C** water or to achieve **19.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------|----------------|-------|-----|
| Grain | Strzegom Pale Ale | 2 kg (43.5%) | 79 % | 6 |
| Grain | Strzegom Pilzneński | 1.7 kg (37%) | 80 % | 4 |
| Grain | Strzegom Pszeniczny | 0.5 kg (10.9%) | 81 % | 6 |
| Grain | Karmelowy Czerwony | 0.4 kg (8.7%) | 75 % | 59 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|---------|--------|----------|------------|
| Boil | Waimea | 30 g | 60 min | 15.3 % |
| Boil | Cascade | 20 g | 30 min | 6 % |
| Aroma (end of boil) | Waimea | 20 g | 10 min | 15.3 % |
| Aroma (end of boil) | Cascade | 20 g | 10 min | 6 % |
| Dry Hop | Cascade | 50 g | 5 day(s) | 6 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

| | | | | |
|--------------|-----|-----|------|-----------|
| Safale US-05 | Ale | Dry | 11 g | Fermentis |
|--------------|-----|-----|------|-----------|

Extras

| Type | Name | Amount | Use for | Time |
|--------|------------|--------|---------|--------|
| Fining | Irish Moss | 5 g | Boil | 12 min |

Notes

- Gęstość końcową ok 3
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