

# Hasiok

- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **42**
- SRM **7.6**
- Style **American Pale Ale**

## Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **2.4 liter(s)**
- Total mash volume **3.2 liter(s)**

## Steps

- Temp **64 C**, Time **60 min**

## Mash step by step

- Heat up **2.4 liter(s)** of strike water to **75C**
- Add grains
- Keep mash **60 min** at **64C**
- Sparge using **30.5 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

## Fermentables

| Type           | Name                           | Amount         | Yield | EBC |
|----------------|--------------------------------|----------------|-------|-----|
| Liquid Extract | Bruntal ekstrakt słodowy jasny | 3.4 kg (73.9%) | 86 %  | 26  |
| Grain          | Płatki owsiane                 | 0.8 kg (17.4%) | 80 %  | 3   |
| Grain          | Płatki orkiszowe               | 0.4 kg (8.7%)  | 80 %  | 4   |

## Hops

| Use for             | Name                   | Amount | Time     | Alpha acid |
|---------------------|------------------------|--------|----------|------------|
| Boil                | Columbus/Tomahawk/Zeus | 30 g   | 60 min   | 15.5 %     |
| Aroma (end of boil) | Sybilla                | 15 g   | 10 min   | 3.5 %      |
| Aroma (end of boil) | Lublin (Lubelski)      | 20 g   | 0 min    | 4 %        |
| Dry Hop             | Amarillo               | 10 g   | 5 day(s) | 9.5 %      |
| Dry Hop             | Citra                  | 40 g   | 5 day(s) | 12 %       |

## Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale  | Dry  | 11.5 g | ---        |

## Extras

| Type    | Name           | Amount | Use for | Time   |
|---------|----------------|--------|---------|--------|
| Finings | Mech irlandzki | 5 g    | Boil    | 15 min |

## Notes

- Sprzątanie magazynu  
*May 12, 2018, 12:08 PM*