

# Krzywy Ryj by Kilim69

- Gravity **16.4 BLG**
- ABV **6.9 %**
- IBU **94**
- SRM **8.1**
- Style **Imperial IPA**

## Batch size

- Expected quantity of finished beer **18 liter(s)**
- Trub loss **5 %**
- Size with trub loss **18.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **22.8 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **24 liter(s)**

## Steps

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

## Mash step by step

- Heat up **18 liter(s)** of strike water to **77.2C**
- Add grains
- Keep mash **60 min** at **69C**
- Sparge using **10.8 liter(s)** of **76C** water or to achieve **22.8 liter(s)** of wort

## Fermentables

| Type  | Name                  | Amount         | Yield | EBC |
|-------|-----------------------|----------------|-------|-----|
| Grain | Strzegom Pale Ale     | 2.5 kg (41.7%) | 79 %  | 6   |
| Grain | Strzegom Pilzneński   | 2.5 kg (41.7%) | 80 %  | 4   |
| Grain | Karmelowy Czerwony    | 0.5 kg (8.3%)  | 75 %  | 59  |
| Grain | Karmelowy Jasny 30EBC | 0.5 kg (8.3%)  | 75 %  | 30  |

## Hops

| Use for | Name                   | Amount | Time     | Alpha acid |
|---------|------------------------|--------|----------|------------|
| Boil    | Cascade                | 50 g   | 60 min   | 6 %        |
| Boil    | Columbus/Tomahawk/Zeus | 50 g   | 30 min   | 15.5 %     |
| Dry Hop | Cascade                | 50 g   | 7 day(s) | 6 %        |

## Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale  | Dry  | 11 g   | Danstar    |